

THE **POWER**
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ENGINE



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BUS • TRUCK • AGRICULTURAL
HEAVY DUTY • INDUSTRIAL ENGINES

KAMYON • OTOBÜS • ÇEKİCİ ARAÇLAR
TRAKTÖR • İŞ MAKİNALARI
ENDÜSTRİYEL MOTORLAR

ZETMAX
ENGINE PARTS



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ÖNEMLİ BİLGİ

Bu katalog bilgi vermek amacı ile hazırlanmıştır.Motor üreticisinin, yedek parçaların tasarımlarında yaptığı değişiklikler için firmamız sorumlu tutulamaz. Katalogdaki bütün şemalar, çizimler ve diğer veriler sadece açıklama ve örnek amaçlıdır. Verilen bilgiler, motor yenilemesi, tasarımı ve üretimi için, üreticiden veya onun yetkili tamir servisinden uzman tavsiyesi alınmalıdır.

Bu kataloğun; kopyalanması, taklit edilmesi ve çoğaltılması kesinlikle yasaktır. Alıntı yapılması; yazılı onayımızın alınmasına ve kesin kaynağın belirtilmesine bağlıdır.



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Yenmak, as a small atelier was founded in Konya by Kahvecioğlu family in 1965. Over the years, Yenmak constantly renewing and improving itself regardless of engine parts supplier on domestic and abroad was one of the largest suppliers worldwide.

Yenmak today KIT, PISTONS, PISTON PIN, PISTON and CYLINDER ENGINE LINER production and with supply SEAL, VALVE, ENGINE BEARING; these products are exported to more than 80 different countries on 5 continents.

To our valuable customers and our long-term partners, we ensure to give best quality and reasonable price, as well as sales and after-sales services from a single source. In a single package, we ensure to supply all engine parts. In addition, knowing that most important of all components of the human factor YENMAK gives considerable importance and value of customer relationships.

YENMAK; INMETRO, ISO 9001, ISO / TS 16949, IATF 16949, TS EN ISO 14001 certified.

Today, 2 factories and 1 Head Office & Logistics building with a total of 50,000 square meters and is based in Konya 1. 2. 3. Organize industrial areas.

Sales and marketing activities in Istanbul in YENMAK export office is performed.



Head Office & Logistics



Piston & Piston Pin Production Facility



Cylinder Liner Production Facility

YENMAK

ENGINE PARTS



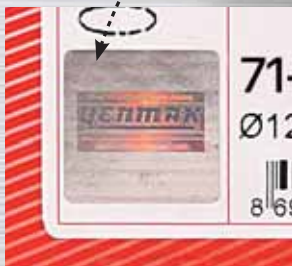
Since 2003, Yenmak products can be packed according to the format shown below and taken place in the market. Find detailed information in the below about packaging



Be the first to reach the product thanks to special label.



Traceability number



Integrated 3D safety hologram on the box for the aim of ensuring product safety.



Box bottom safety label with the purpose of product safety ensurance.

ISO 14001
ISO / TS 16949
BUREAU VERITAS
Certification



STEEL PISTON



Steel piston, moving the interconnected steel piston head and the aluminum piston shaft are formed in piston pin. Due to their high strength and low wearing out values, these pistons are mainly used in heavy-duty diesel engines. Also, they provide low exhaust gas and emission limits.

Steel pistons;

- High compression ratio and new generation of engines with modern combustion chamber design
- Used in Heavy-duty diesel engines
- Multi-fuel system is used in the engine

Advantages of Steel Pistons;

- Steel pistons compared with the aluminum pistons; because of less contact with the cylinder liner, steel pistons provide less losses due less friction rate.
- Steel pistons compared with the aluminum pistons; steel pistons reduce the risk of profile deformation, because of their high resistance to thermal load. The sealing features of rings are increased.
- Aluminum piston, showing pressure resistance up to 100 bar, A steel piston of the same dimensions may show resistance up to 250 bar pressure.
- Provision of highers compression rate. The steel pistons provide 2-5% less emission. They provide reduction the contact problem resulting from the ring carrier (Ni-resist) material.
- Steel piston is closer to the top of the piston cooling groove. Consequently the cooling of the piston top is more efficiently.
- Compared with the aluminum piston, the combustion chamber has a minimized deformation.
- Due to the positive effects of prolonged engine life, they reduce the cost of rectifying the engine.
- When problems occur in supercharging and fuel injection systems, it causes to melting or piston perforation. In the two-parts (articulated) steel pistons, this kind of problems do not occur.

MONOSTEEL PISTON



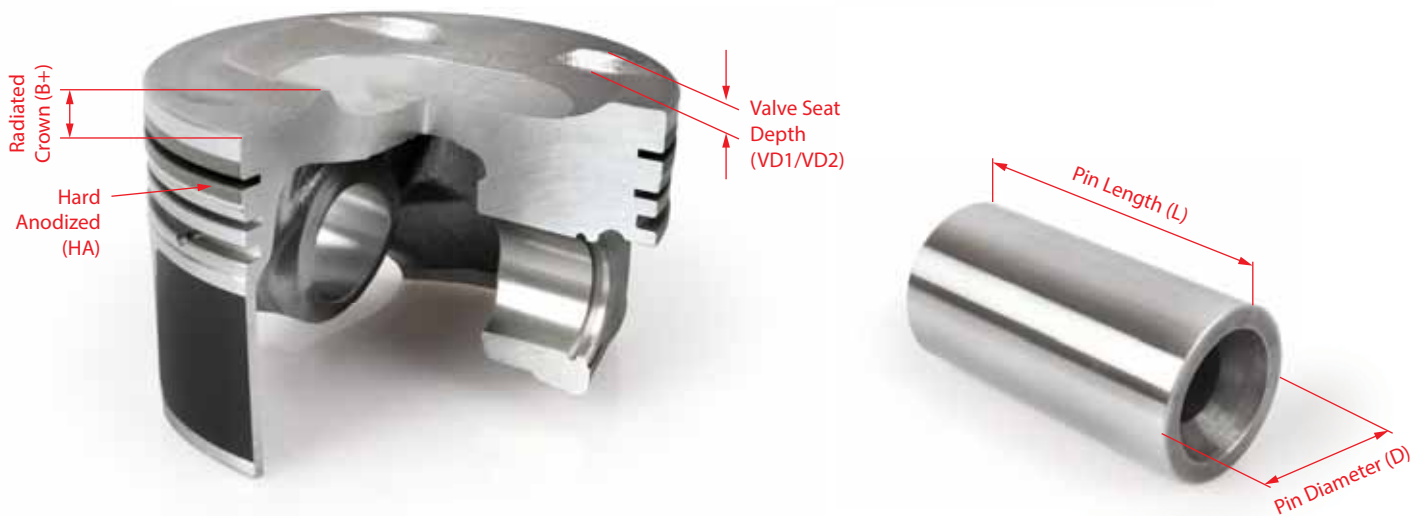
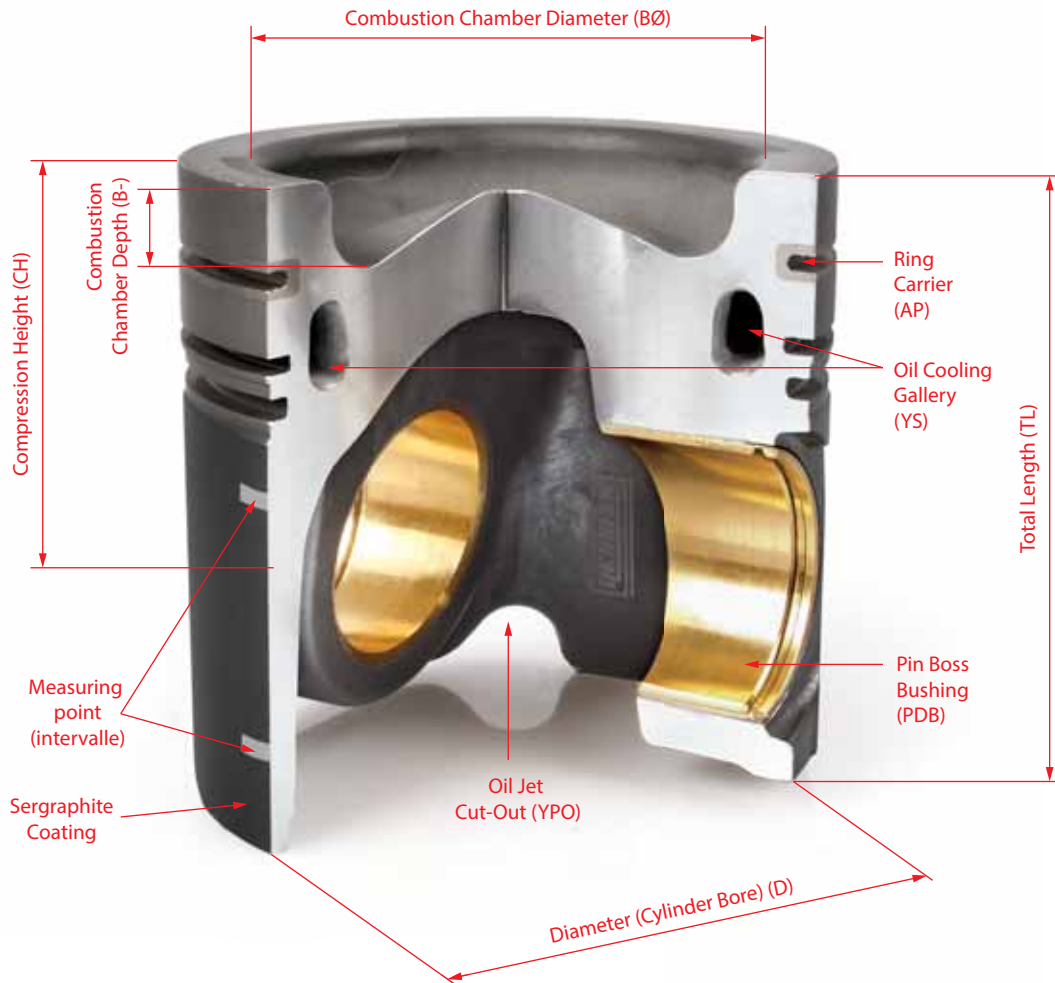
Monosteel piston has maximum load carrying capability and minimum combustion chamber deformation.

Monosteel pistons have cooling and power capacity which covers the high combustion chamber pressure and temperature demands of new generation engines.

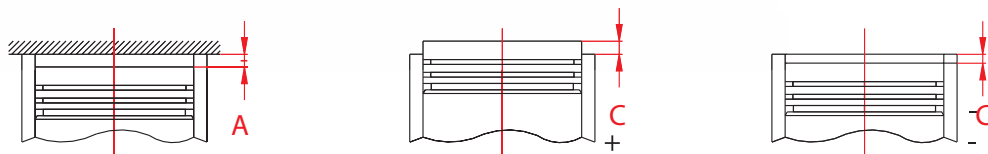
In Monosteel pistons, the cooling groove is near to combustion area and this results as an effective cooling. The large cooling gallery provides much more effective cooling of combustion chamber and the ring groove areas..

Due to its design, monosteel piston exhibits good wear values in addition to high strength and temperature resistance. This type pistons have better conditions for providing and ensuring lower oil consumption, relatively high surface temperature and low exhaust emission limits.

TECHNICAL DEFINITIONS



5- Piston Description of Clearance Dimensions



A = Clearance Measured to Cylinder

C = Clearance Measured to the Top of the Cylinder Block

GENERAL PISTON RING ASSEMBLY INSTRUCTION

The YENMAK replacement piston ring system is suitable for use in the reconditioning of Internal Combustion Engines in different states of wear. YENMAK piston rings are designed for use in engine overhauls where the engine exhibits excessive oil consumption and power loss due to a high mileage and worn cylinders. Prior to fitting the piston rings to the old piston, oil carbon deposits clinging to the piston grooves must be removed from the piston crown. Exercise extreme care when cleaning the groove root, especially the radiused corners between groove root and groove sides, otherwise any sharp nicks can subsequently grow into cracks. The pistons do not need re-machining because YENMAK piston ring sets are designed to fit the original pistons of the engine.

Gasoline Engines: Diameter upto 0.1 mm.

Diesel Engines: Diameter upto 0.15 mm.

Defective and worn pistons especially ones with loose ring carriers or with serious axial wear must always be replaced by YENMAK Pistons. Even if diametric dimensions are acceptable, form distortions that effect the parallel structure of the ring grooves could cause oil consumption and combustion gas leakage (blow-by).

Do not force and bend the rings, this could cause the working surface and the coating of the ring to be de- formed. Deformations that are not visible to the naked eye could cause problems in the engine.

Fit the rings in sequence, using piston ring pliers and inserting them into the piston grooves. Then use a ring tensioner to compress the rings on the piston. Push the piston into the cylinder, pushing and tapping lightly with the handle of a hammer. In the process make quite certain that the tensioner always rests on the surface of the cylinder block in order to prevent axially narrow rings from springing and suffering damage. It is important that chromium plated piston rings must not be fitted into chromium plated cylinder bores.

Located on a surface of piston rings YEN or TOP marks in the marking of the surface into the combustion chamber should be assembled into the piston ring grooves. Without any marking on the piston rings can be assembled in every direction.

RING COATING AND SURFACE TREATMENTS

Cr = Chrome Coating

Mo = Molybdenum Coating

P = Phosphate Coating

Fe = Ferroxid Coating

Cu = Copper Coating

Nt = Nitrite Coating

Sn = Tin Coating

Ck = Chrome-Ceramic Coating

Pvd = Physical Vapor Deposition

Cdc = Chrome Diamond Coating

Dlc = Diamond Like Carbon

Tef = Teflon Coating

RING COATING

CK (Chrome-Ceramic Coating)

Chrome-Ceramic Coating, chrome and aluminum oxide elements with interpenetrating form gets a kind of composite coating. These coatings are mainly used in the pistons of diesel engines which used for diesel engine pistons top rings. Due to differences in the electrolysis method, chrome ceramic coating provides high quality and performance.

The difference between chrome coating and hard chrome plating;

- Higher abrasion resistance
- Higher Melting point
- Higher Hardness and fracture density

Because of these advantages, chrome ceramic coatings provide prolong engine life and reduction of the exhaust gas.

PVD (Physical Vapor Deposition)

PVD dissociates from the vapor phase reactive the accumulation of ring surface is formed. The metal vaporization and ionization is achieved with Electrical arc or ion bombardment by this method. After the reaction, thin coating is formed in ring working surface. Through the characters in the ceramic coating, rings show a high resistance against wearing out and abrasion.

Mo (Molybdenum Coating)

Ring working surface prevent wearing out with molybdenum coating. The coating process may take place both flame spraying and plasma spraying method.

Molybdenum, provides more resistance on the ring working surface with high melting point (2620 C°), porous structure and lubricant effect. Thermal conductivity and abrasion resistance against friction are high.

Tef (Teflon Coating)

- Ability to operate without lubrication or in marginally lubricated conditions; no catastrophic failure if lubricant starvation occurs.
- Reduced wear rates, both of the piston ring and of the mating surface.
- Resistance to chemical attack by corrosive gases.
- Compatibility with unround surfaces.
- No need for running-in procedures.
- Ease of installation; non-brittle resilience allows one-piece construction.

Cr (Chrome Coating)

Hard chrome coating method which increases the resistance of the rings is applied extensively. The purpose of coating with chrome, reducing wearing out and prolong rings and cylinder liner life.

Chrome coating is applied in two methods:

- Hard chrome coating
- Cellular chrome coating

Hard chrome coating; after rings are coated with chrome, rings grinded to take their final form.

Cellular chrome coating; ring surfaces provide an oil trap feature. Whereby, they provide the wearing out is minimized.

Nt (Nitrite Coating)

All ring surfaces are hardened with nitrite coating. Consequently the relevant ring surfaces get a higher resistance against abrasion. Thus, ring lifetime is extended. The nitride coating is environmental friendly due to production and emission characteristics. Ring of occurring in sensitive points reduce oil loss. Cast iron rings reduce the friableness. The engine life is extended.

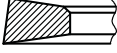
Dcd-Chrome Diamond Coating

This type of coating is used in the top ring of Euro 4 and diesel engines. Applicable/useable materials for this methods are flexible alloy cast iron. Diamond particles are used instead of ceramic particles. Thus, abrasion resistance and anti-friction performance are increased.

Dlc-Diamond Like Carbon

This coating reduces the friction rate and increased wear resistance. DLC coating is an environmental friendly with features. Chemical bonds are strong. The mechanical stresses are unbreakable. They are not crystalline, but shapeless. Therefore, it is a very strong material. Compared to other coatings, this coating is more resistant and a higher resistant against friction.

TECHNICAL DEFINITIONS

	D	= Rectangular Ring		TI-FU	= Taper Faced Keystone Ring with Internal bevel on bottom
	D-IF	= Rectangular Ring with Internal bevel on top		TK-IW	= Taper Faced Keystone Ring with Internal step on top
	D-IFU	= Rectangular Ring with Internal bevel on bottom		TK-IWU	= Taper Faced Keystone Ring with Internal step on bottom
	D-IW	= Rectangular Ring with Internal Step on top		N	= Napier Ring
	D-IWU	= Rectangular Ring with Internal Step on bottom		N-IF	= Napier Ring with Internal bevel on top
	K	= Taper Faced Ring		N-IFU	= Napier Ring with Internal bevel on bottom
	K-IF	= Taper Faced Ring with Internal bevel on top		N-IW	= Napier Ring with Internal Step on top
	K-IFU	= Taper Faced Ring with Internal bevel on bottom		N-IWU	= Napier Ring with Internal Step on bottom
	K-IW	= Taper Faced Ring with Internal step on top		TN	= Taper Faced Napier Ring
	K-IWU	= Taper Faced Ring with Internal step on bottom		TN-IF	= Taper Faced Napier Ring with Internal bevel on top
	TT	= Half Keystone Ring		TN-IFU	= Taper Faced Napier Ring with Internal bevel on bottom
	TT-IF	= Half Keystone Ring with Internal bevel on Top		TN-IW	= Taper Faced Napier Ring with Internal step on top
	TT-IFU	= Half Keystone Ring with Internal bevel on bottom		TN-IWU	= Taper Faced Napier Ring with Internal step on bottom
	TT-IW	= Half Keystone Ring with Internal step on top		SC	= Slotted Oil Control Ring
	TT-IWU	= Half Keystone Ring with Internal step on bottom		DC	= Bevelled Edge Oil Control Ring
	T	= Keystone Ring		DB	= Double Bevelled Edge Oil Control Ring
	T-IF	= Keystone Ring with Internal bevel on Top		ES	= Slotted Oil Control Ring with Expanderspring
	T-IFU	= Keystone Ring with Internal bevel on bottom		SY	= Coil Spring Loaded Slotted Oil Control Ring
	T-IW	= Keystone Ring with Internal step on top		DY	= Coil Spring Loaded Bevelled Edge Oil Control Ring
	T-IWU	= Keystone Ring with Internal step on bottom		PS	= Coil Spring Loaded Double Bevelled Edge Oil Control Ring
	TK	= Taper Faced Keystone Ring		VF	= Multi-piece Steel-rail Oil Control
	TK-IF	= Taper Faced Keystone Ring with Internal bevel on top		UB	= U-flex Ring (Multi-piece)
	SDR	= Steel Oil Control Rings with R-Shaped Groove		SDV	= Steel Oil Control Rings with V-Shaped Groove
	X	= Ring Thickness (mm)		DKS	= Liner, Taper, Cylindrical Oil Control Rings

General Piston Assembly Instruction

1- The inner surface of the piston cylinder should be rhombic honing lines. If ready assembled piston used and/or assembling to worn cylinder, cylinder rhombic honing lines should be controlled for suitability. If the inner surface rhombic honing lines partially or completely lost and the inner surface has a polished surface, the inner surface should be honed to rebuild rhombic honing lines.

2- All pistons are manufactured sensitive for piston-cylinder make up a correct running clearance when the pistons are assembled inside of the cylinders. Inner diameters of the cylinders should be controlled for suitability according to measurements that they are located on the label shown on the box. If inner diameters of the cylinders are not suitable, the cylinders should be remanufactured. Inside diameters of the worn cylinders must be manufactured to measure the top, the top measure nominal diameter should be manufactured with 0.000-0.020 mm tolerance that this tolerance range is recommended.

3- Piston pin should be removed without damage to piston and piston pin from ready for assembly of the pistons. Piston pins are assembled their relevant pistons according to suitable piston measurements, the piston pins must not be changed randomly.

4- During the assembly of the piston rings, should be used suitable equipment for not deformed piston rings and damaged pistons. During the assembly of the piston in the cylinder, should be used suitable piston ring compressor or tapered assembling sleeve. After piston rings has been clamped in accordance with procedures, pistons must not be assembled with using excessive force or hitting, the pistons must be assembled carefully with finger force.

5- Piston and piston pin must be cleaned carefully and especially piston pin hole must be lubricated before assembling the piston in the cylinder. Before the assembly, inside of the cylinders must be lubricated for during the first engine starting and until lubricating, prevent damage to the cylinders.

6- If assembly direction signs marking locates on the piston crown, during the assembly this direction signs must be taken into consideration for assembly.

7- Please pay utmost attention for avoid damage to piston, piston pin and piston ring.

8- Pistons are manufactured in the direction of generally accepted norms according to the other parts that the other parts are used with the pistons. Therefore, do not make any operation on the pistons.

9- Pins and snap rings should not be used again, please always use a new pin and snap ring.

10- Controlled of piston rods linearity is very important for prevent serious problems. Before assembly, linearity of the connecting rods must be recontrolled again with appropriate equipments.

NOTE: Should act in accordance with specified in this assembly instructions.

The manufacturer is not liable for faulty assembly problems result from fail to comply instructions.

TECHNICAL DEFINITIONS

8- MARKING AND CODING ON THE PISTON CROWN



9- PISTON REFERENCE NUMBER

EXAMPLE

Piston Reference Number

11-01513-000

- 000 = STD/ Piston+Ring
- 001 = Compression height -0,20 mm short
- 002 = Compression height -0,40 mm short
- 003 = Compression height -0,60 mm short
- 050 = Oversize + 0,50 mm / Piston

OLD REFERENCE NUMBER	NEW REFERENCE NUMBER
1513 000	11-01513-000

10- PISTON COMPLETE WITH RING REFERENCE NUMBER

EXAMPLE

Piston Complete with ring reference number

31-03513-000

- 000 = STD/Piston + Ring
- 050 = Oversize + 0,50 mm /Piston+Ring

Differences between piston ring types and coatings.

38-

39-

OLD REFERENCE NUMBER	NEW REFERENCE NUMBER
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

11 - LINER REFERENCE DEFINATIONS

EXAMPLE

Liner reference number ← **51-05513-000** → 000 = STD / Liner
050 = Oversize + 0,50 mm / Liner

Liner Code With O-Ring ← **52-**

OLD REFERENCE NUMBER	NEW REFERENCE NUMBER
5513 000	51-05513-000

12 - KIT, SET REFERENCE DEFINATIONS

Kit Assembly Reference: Piston + Pin + Ring + Liner

Kit Assembly reference definitions ← **71-07513-000** → 000 = STD / Kit
050 = +0,50 mm Oversize / Kit

Differences between piston ring types and coatings. ← **71-8**
71-9

Kit Assembly Code With O-Ring ← **72-**

OLD REFERENCE NUMBER	NEW REFERENCE NUMBER
7513 000	71-07513-000
7513 000-08	71-87513-000
7513 000-09	71-97513-000

13 - RING REFERENCE NUMBER

Ring Reference Number ← **91-09513-000** → 000 = STD/Ring
050 = Oversize + 0,50 mm / Ring

Differences between piston ring types and coatings. ← **98-**
99-

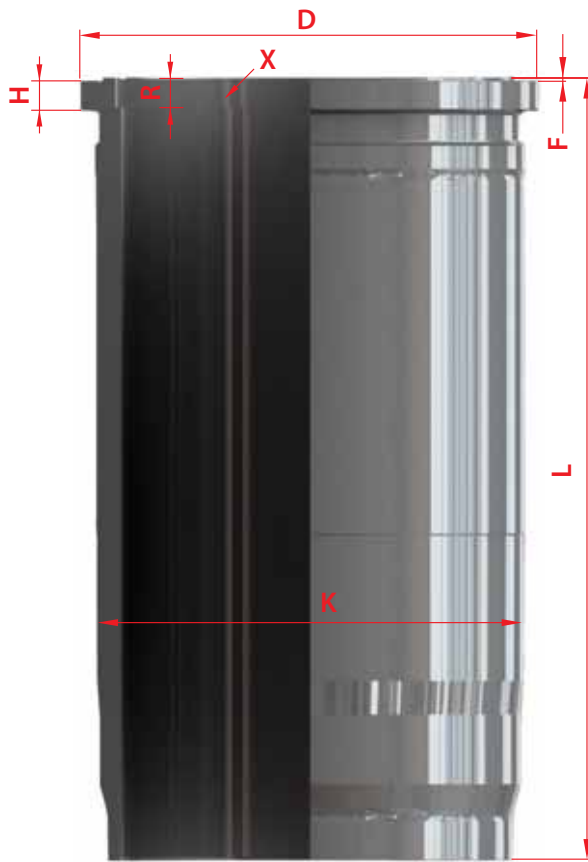
OLD REFERENCE NUMBER	NEW REFERENCE NUMBER
9513 000	91-09513-000
9513 000-08	98-09513-000
9513 000-09	99-09513-000

14 - SEALING RING REFERANS NUMARASI

Sealing Ring reference number ← **55-50701-000**

TECHNICAL DEFINITIONS

TECHNICAL EXPLANATIONS OF CYLINDER LINERS



- K = Outside diameter
- L = Total length
- H = Flange width
- F = Flange overlap
- D = Flange diameter
- X = Fire ring height
- R = Relief height

Definition of Cylinder Liners according to TSE 842

In the internal combustion engines the cylinder liners are cast machine elements that are placed in the cylinder block and in which the piston moves and the fuel is combusted. The engine cylinder liners may be examined in two classes.

Wet Cylinder Liners

These are liners that cool the cylinder block that they are placed in with external water.

These are classified in 3 main groups:

a- Flanged and Channeled: These are liners that are placed on the cylinder block from the top with a flange and that have seal channels to prevent the leakage of engine cooling water in the lower section (Figure-1)

b- Flanged and without channel: These are liners that are placed on the cylinder block from the top with a flange and that do not have seal channels to prevent leakage. (Figure-2)

c- Double Flange: These are the cylinder Liners that are fixed on the cylinder block from the top and bottom with a flange and seal in a way to prevent water leakage. (Figure-3)

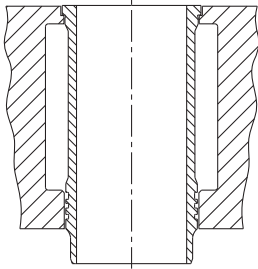


Figure - 1

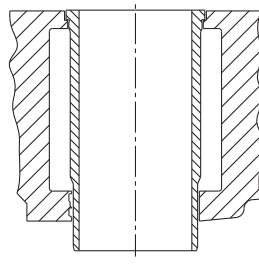


Figure - 2

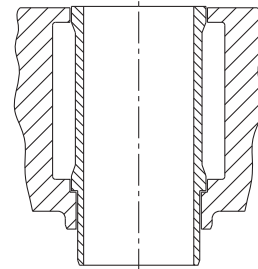


Figure - 3

Dry Cylinder Liners:

These are the liners that do not come into direct contact with the cooling water in cylinder block that they are placed. They can be classified under 2 main groups in term of shape:

A- Flanged (Figure-4)

B- Flangeless-plain (Figure-5)

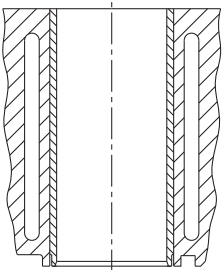


Figure - 4

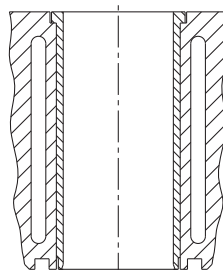


Figure - 5

THE MATTERS TO BE TAKEN INTO CONSIDERATION IN ASSEMBLY OF CYLINDER LINERS

The dry cylinder liners are produced with or without flange. (Figure-6) The displacement frequently seen case of blocking of the piston in the flangeless liners that are under unsuitable operating conditions is not encountered in flange liners. And this is an advantage that is provided by the flange.

Prior to the pressing of the liners to the cylinder, the cylinders are ground or fine machined in accordance with the rated dimensions specified for liner outer diameter(A). The following tolerances must be observed(Figure-7). Otherwise, the risk of unhealthy heat transfer in case of low pre-tension, incompliance with the cylinders with thin walls in case of high pre-tension and thus operation defects may be encountered. The internal diameter is approximately 0,5 - 0,75 mm dry liners with final outer diameter dimensions.

When assembling the flanged dry liner to the cylinder block by pressing, the hole processed for flange should be greater than the outer diameter(C) of the flange to prevent breaking of the flange.

TECHNICAL DEFINITIONS

When press assembling the flanged dry liner to the cylinder it should be made sure that the lower section of the flange is placed precisely on the having block.

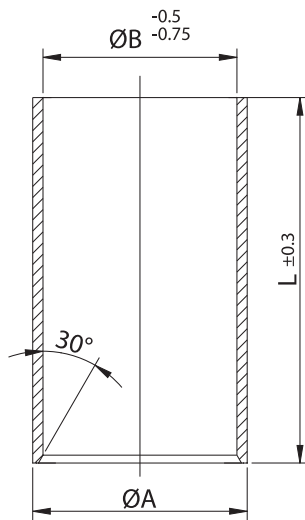


Figure - 6

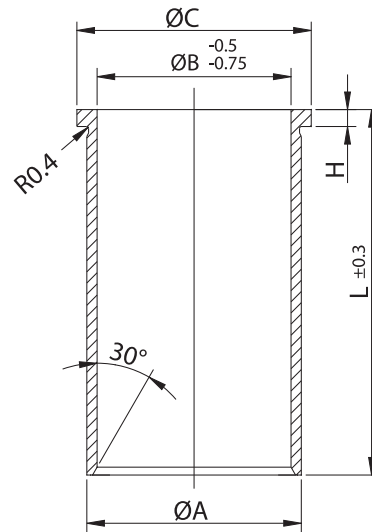


Figure - 7

As it is known, the liners have a radius of 0.4 mm at the lower section of the flange. A tolerance of 1.0 mm should be given in the transition section on the block on which the flange is placed in assembly of the liner to the block in order to prevent placement of this radius. Otherwise the breaking of the liner flange is unavoidable.

Prior to mounting of the new liners, the cylinders on the engine block should be cleaned thoroughly and the dimensions should be controlled. The level of ovalness and conicity should not exceed 0.025 mm. When honing a bright surface should be provided and the level of surface roughness should be controlled according to the motor type. Excessively bright and smooth surfaces should be avoided due to the fact that they shall cause inefficient lubrication.

In pressing of the dry cylinder liners a pressure of 3000-5000 kg is efficient. If a solid substance shall be used as lubricator during assembly, this substance shall become coked, thus making the heat transfer difficult. Following the assembly by press the extrusions of the cylinder block from the seal surface should be removed by grinding.

If it shall be necessary to reprocess the seal surface of the cylinder block, the placement surface of the flange in the housing should be processed deeper. Moreover, liners with final outer dimensions and fine machined inner diameters are also available. These liners are pressed into the cylinders with a little honing tolerance and honed in pressed form. The rated dimension tolerance of the cylinder is between +0 and +0.015 mm. The rated dimension tolerance of the outer diameter of the cylinder liner between 0.012 and 0.024 mm.

	Liner Out Diameter Groups		
	50 - 80	80 - 120	120 - 180
QA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
QC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

	Block Bore Diameter (mm)		
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
QC ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25

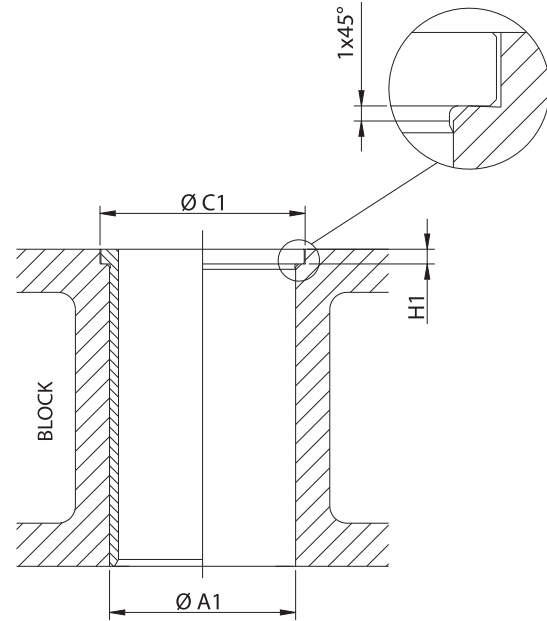


Figure - 9

ASSEMBLY INSTRUCTIONS FOR WET CYLINDER LINERS

Yenmak Engine Cylinder Liners are produced with the Blow Cast method that provides for resistance against wear and shrinking. Care should be given no to damage the housing places on the cylinder when removing the old liners.

The contact points on the engine block should be carefully cleaned of lime, dirt and other substances. Tools such as scrapers, chisels that may cause damage should not be use during cleaning. The most suitable tool for this process is a wire brush. For removal of the liners which are fixed on the cylinder due to corrosion and lime layers, a wooden block is placed on these layers and hit with a hammer. If it shall be impossible to remove the liner with this process, then a hydraulic press should be used. When cleaning care should be taken not to damage the placement surfaces.

The liner flange should be parallel to the surface block on which the lower part is placed as in (Figure-10) and it should not differ in terms of smoothness and linearity. Moreover, it should be controlled that cylinder axis is perpendicular to the seal surface of the cylinder block. (Figure-11) Another matter that must be taken into consideration is damaging of the placement surface by means of compression.(Figure-12) The flange placement surface on the (d) cylinder of the radius on the liner flange sub-surface should be given a radius of 0.5-1.0 mm 450 in order to prevent its placement on the (a) corner.

In order to prevent the risk of breaking, the tightness strength and the counter force should be leveled vertically.

TECHNICAL DEFINITIONS

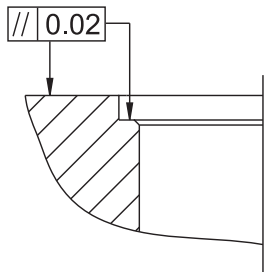


Figure - 10

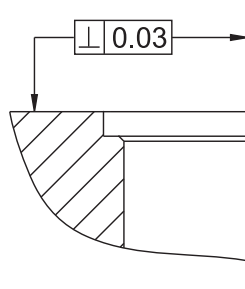


Figure - 11

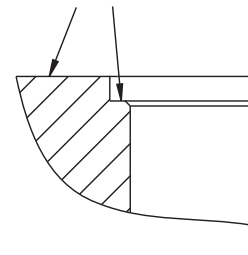


Figure - 12

The hole diameter(b) of the seals and the outer diameter(c) of the liner should be equal to one another. In order to provide for a full tightness the metal framed seals should be used.

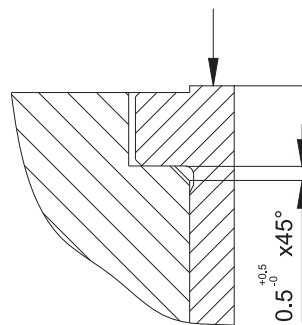


Figure - 14

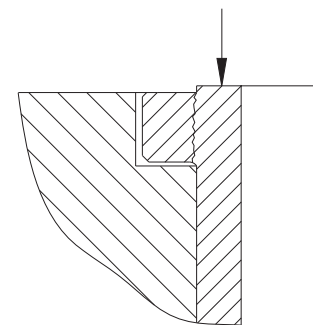


Figure - 15

In order to determine whether the cylinder block is easily established within the cylinder liner and is very large or very wide, cylinder liner should be inserted into the cylinder block by hand without the usage of rubber rings before installation. Especially the correct positioning of the liner flange to the block surface should be controlled. Utilization of a drawing ink is recommended for a correct placement control. In order to determine whether the flange diameter has an efficient space it is recommended that the liners are turned inside out prior to the assembly and placed to the flange placement surface on the flange side. As it is known, the flange is in the section of the motor that is not cooled and it is subject to expansion. At this point a space of 0.3-0.5 mm should be taken into consideration.

The matter that is emphasized the mosts in these instructions is the matter of placement and removal of the liner in accordance with the purpose. In other words, the errors that may be caused by utilization of heavy tools such as hammers etc. may cause severe results.

The elastic rings that shall be used during assembly should be of high quality and resistant against swelling, wear, oil and heat. Otherwise, penetration of water into the crankcase may cause clogging of the liner or defects in dimensions. Lubrication soap is applied on the elastic rings every time and then they are placed to their housings.

Only the high quality brands used by engine producers should be used as elastic rings. The main reason of this preference is the fact that they are resistant against swelling, wear, lubrication and heat.

Piston seizure, which causes breakage of the cylinder liner, is a result of the improper usage of rubber rings. Points where rubber rings are placed must never be scraped.

Following manual placement of the liners, it shall be benefiting to check the cylinder dimension once again. This control should be made especially in the sections that may cause oval formation and shrinkage.

After the liners are placed completely, the cylinder block should be filled with water and the tightness must be controlled.

DETAIL OF LINER MARKING






SEALING RING (O-RING)

The Sealing Ring (O-Ring) from the sealing parts is one of the important parts affecting the operation and performance of the engine. You can order our products using our single Sealing Ring (O-Ring) codes or kit and liner with Sealing Ring (O-Ring) reference codes.

Sealing Ring Material	
EPDM	Rubber EPDM
NBR	Rubber
FPM / VI	Viton
Cu	Copper
T	Tombak
ST	Steel
SC / MVQ	Silicone
Shim / SM	Soft Metal



93,000		1	3	4	5	6	7
4JB1		2	D	00	2005	>	00 2005 4 Cyl 2771cc 57kW (78ps)
 <p>11-02385-000 8 CH 51,850 VD1 0,550 10 B- 19,500 BØ 43,900 12 TL 91,850 13</p> <p>15 31,00x76,00</p> <p>Isuzu ve Opel ile Ortak Motor 27</p>		14	<p>91-09389-000</p> <p>1 2,000 P 16 2 2,000 P 3 4,000 CrP</p> <p>99-09389-000</p> <p>1 2,000 FeP 16 2 2,000 FeP 3 4,000 TeF</p>	17	1. Conta ile 1,50mm (+0,71/+0,77) 2. Conta ile 1,55mm (+0,77/+0,81) 3. Conta ile 1,60mm (+0,81/+0,87)	Ø 93,000 18	31-04385-000 19
 <p>K=95,00 22 L=181,00 H=0,90 25 D=101,00 23</p>		26	DF-CR-ST			51-35721-000 20	71-08385-000 71-98385-000 21
 <p>K=120,00 22 L=229,00 H+F=9,00+1,10 25 D=128,50 23</p>		26	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00 28	51-06067-000 52-06067-000 20	71-07152-000 72-07152-000 21

1 - Piston Diameter

2 - Engine Code

3 - Type of Fuel

4 - Model Years

5 - Cylinder Number

6 - Displacement

7 - Engine Power

8 - Piston Code

9 - CH: Compression Height

10 - VD1/VD2: Valve Depth

11 - B- : Combustion Chamber Depth

B+ : Radiated crown

12 - BØ: Bowl Diameter

13 - TL: Total Length

14 - Piston Specifications

*DAP: Double Ring Carrier Piston

*AP: Ring Carrier Piston

*YS: Oil-Cooled Piston

*CP: Steel Sheet Piston

*HA: Hard Anodized Coating

*PDB: Piston Pin Hole Bushing

15 - Piston Pin Diameter- Length

16 - Piston Ring Specifications

17 - Piston Protrusion

18 - Cylinder Diameter

19 - Piston + Ring Reference No

20 - Liner Reference No

21 - KIT Reference No

22 - Cylinder Outside Diameter

23 - Liner Flange Diameter

24 - Liner Total Length

25 - Flange Height / Overlap

26 - Cylinder Liner Specifications

*WS : Wet liner semi finish

*WF : Wet liner full finish

*DS : Dry liner semi finish

*DF : Dry liner full finish

*AF : Air cooled full finish

*PH : Phosphate

*CR : Chrome

*HR : Hardened

*NT : Nitrite

*HT : Heat treatment

*STEEL : Steel

27 - Common engine

28 - Sealing Ring Code

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Yenmak, 1965 yılında Kahveciođlu ailesi tarafından küçük bir atölye olarak Konya'da kuruldu. Geçen yıllar içinde YENMAK kendisini sürekli olarak yenileyerek ve geliştirerek yurt içi ve yurtdışında bağımsız motor parça tedarikçisi olarak dünya çapındaki büyük tedarikçilerden biri olmuştur.

Yenmak bugün KİT, PİSTON, PİSTON PİMİ, SEGMAN ve SİLİNDİR MOTOR GÖMLEĐİ üretimi; CONTA, SUPAP ve MOTOR YATAĐI tedarigi ile bu ürünleri 5 kıtada 95'den fazla ülkeye ihraç etmektedir.

Siz değerli müşterilerimiz için uzun soluklu bir iş ortađı olarak nihai güven, en iyi kalite ve makul fiyatın yanı sıra, satış ve satış sonrası hizmetler olarak, müşterilerine ürün portföyünde tek bir kaynaktan, bir paket içinde bütün motor parçalarının teminini sağlar. Bunun yanı sıra YENMAK insan faktörünün bütün bileşenler içinde en önemlisi olduğunu bilerek müşteri ilişkilerine değer vermektedir.

YENMAK; INMETRO ve ISO 9001, ISO / TS 16949, IATF 16949, ISO 14001 sertifikalarına sahiptir. Bugün, 2 Fabrika ve 1 Genel Merkez & Lojistik binasıyla toplamda 50.000 metrekarelik alanda Konya 1. 2. ve 3. Organize sanayi bölgelerinde kuruludur.

Satış ve pazarlama faaliyetleri İstanbul' da bulunan YENMAK ihracat ofisinde gerçekleştirilmektedir.



Genel Merkez & Lojistik



Piston & Pim Fabrikası



Motor Gömleđi Fabrikası

YENMAK

MOTOR PARÇALARI



2003 yılından itibaren Yenmak ürünleri aşağıda gördüğümüz formatta ambalajlanıp pazarda yerini aldı.

Ambalaja ait detayları bulacağınız bilgiler aşağıda yer almaktadır:



Özel ağız kapamalarımız sayesinde ürüne ilk ulaşan siz olun.



İzlenebilirlik numarası

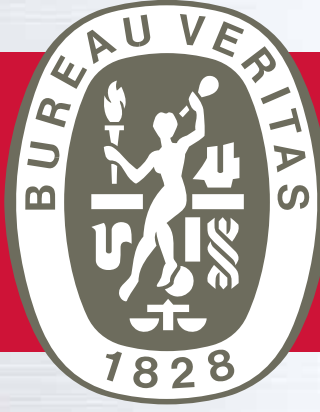


Ürün güvenliğinin sağlanması amacı ile kutu üzerine entegre halde bulunan 3D güvenlik hologramı.



Ürün güvenliğinin sağlanması amacı ile uygulanan kutu altı güvenlik etiketi.

BUREAU VERITAS Certification



ISO 14001
ISO / TS 16949
BUREAU VERITAS
Certification



ÇİFT PARÇA ÇELİK PİSTONLAR



Çift parça çelik pistonlar, piston pimi üzerinde hareketli olarak birbirine bağlı bir çelik piston başı ve alüminyum piston şaftından oluşmaktadır. Yüksek mukavemet ve düşük aşınma değerleri nedeniyle, bu pistonlar ağırlıklı olarak ağır hizmet dizel motorlarında düşük egzoz gazı ve emisyon limitlerinde çalışılmasını sağlamaktadır.

Çift Parça Çelik Pistonlar;

- Yüksek sıkıştırma oranına ve modern yanma odalarına sahip yeni nesil motorlarda,
- Ağır hizmet dizel motorlarında,
- Çoklu yakıt sistemlerinin kullanıldığı motorlarda,

Çift Parça Çelik Pistonların Avantajları;

- Çift parça çelik pistonlar alüminyum pistonlara göre; silindir gömleği ile temas mesafesinin daha az olması nedeniyle sürtünme kuvvetlerinden kaynaklı kayıpların daha az olmasını sağlar.
- Çift parça çelik pistonlar alüminyum pistonlara göre; termal yüklere karşı yüksek direnç göstermesi nedeniyle gömlek deformasyon riskini azaltır ve daha düşük silindir boşluğunda çalışabilir, segmanların sızdırmazlık özelliklerini artırır.
- Normal bir alüminyum piston 100 bar basınca kadar dayanım gösterirken, aynı ölçülerdeki bir çelik piston 250 bar basınca kadar dayanım gösterebilir.
- Motorda daha yüksek sıkıştırma oranı ve %2-5 arasında daha az CO₂ emisyonu oluşumu sağlar. Dizel motorlar için alüminyum pistonlarda kullanılan alfin (Ni-resist) malzemeden kaynaklanan temas problemlerini azaltmayı sağlar.
- Soğutma kanallı pistonlarda soğutma kanalının pistonun üst kısmına daha yakın olmasına olanak sağlar, bu daha etkin bir soğutmanın sağlanmasına yol açar.
- Çift parça çelik pistonlar alüminyum pistonlara göre minimum yanma odası deformasyonuna sahiptir.
- Çift parça çelik pistonlar motorun ömrünün uzamasına pozitif yöndeki etkileri sebebiyle motor rektifiye maliyetlerini düşürürler.
- Aşırı doldurma ve yakıt püskürtme sistemlerinde oluşan arızalar, piston ergime ya da delinme gibi problemlere neden olur. Çift parça çelik pistonlarda ise bu problemler meydana gelmez.

TEK PARA ELİK PİSTONLAR



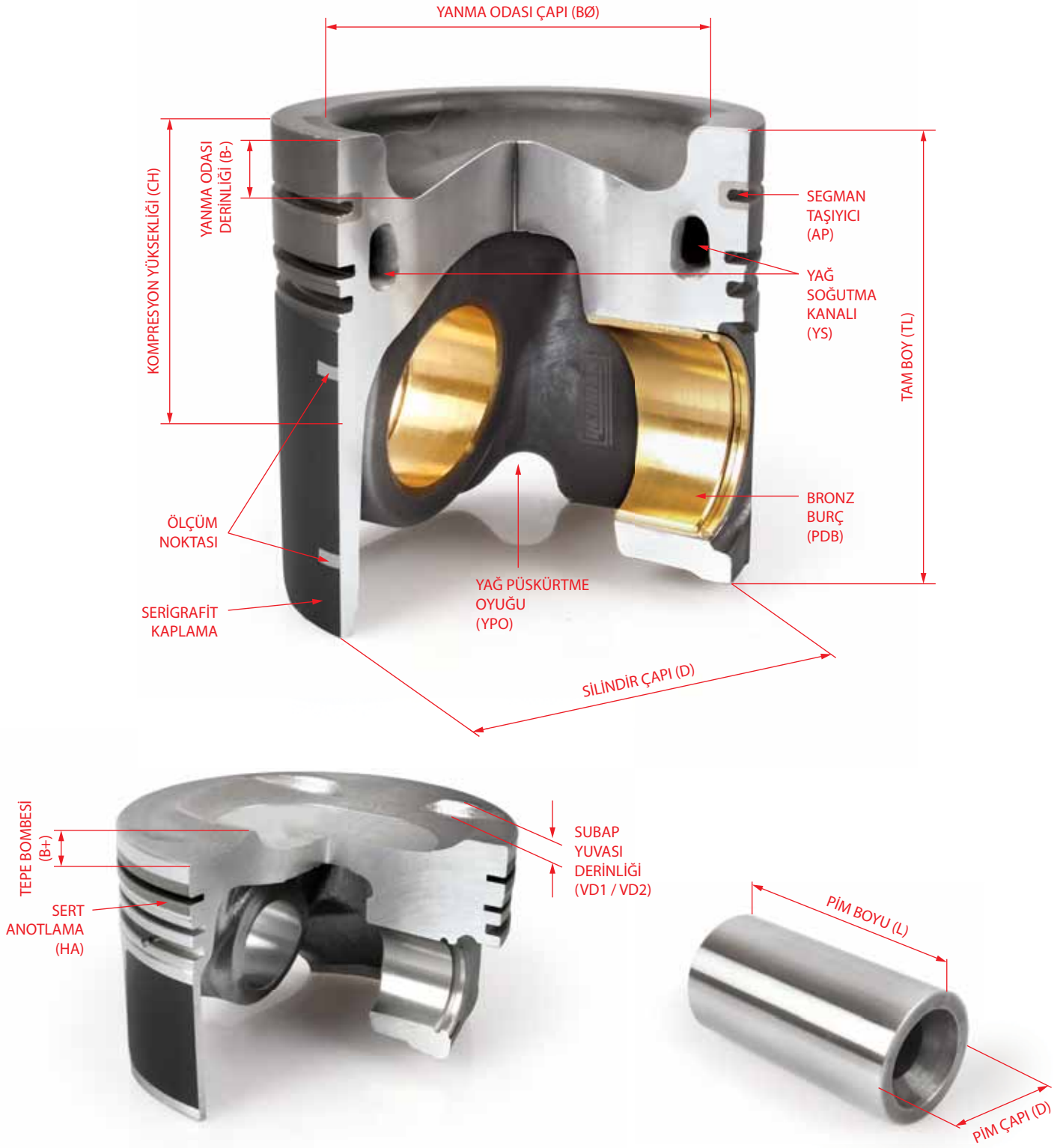
Maksimum yük taşıma kapasitesi ve minimum yanma odası deformasyonuna sahiptir.

Monosteel pistonların, yeni nesil motorların yüksek yanma odası basıncını ve sıcaklık taleplerini karşılayan soğutma ve güç kapasitesi vardır.

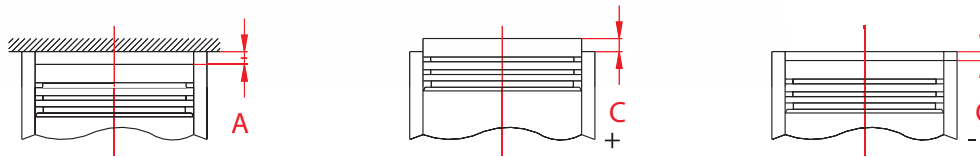
Monosteel pistonlarda, soğutma kanalı pistonun üst kısmına daha yakındır, bu da daha etkin bir soğutmanın gerçekleşmesini sağlar. Geniş soğutma kanalı sayesinde yanma odası ve segman set bölgesinin çok daha verimli soğutulması sağlanmıştır.

Tasarımı nedeniyle, monosteel piston, yüksek mukavemet ve sıcaklık direncine ek olarak iyi aşınma değerlerine sahiptir. Sürekli düşük yağ tüketimi ve nispeten yüksek yüzey sıcaklığı, düşük egzoz emisyon limitlerini korumak için iyi koşullar sağlar.

TEKNİK TANIMLAMALAR



Piston Mesafe Ölçüleri



A = Silindir kafasına kadar olan ölçü

C = Blok yüzeyinden piston başındaki ölçü

YENMAK PİSTON SEGMANLARI MONTAJ TALİMATI

Kullanılmış pistonlarda takılmak istendiğinde, pistonların, segman yuva kanallarındaki karbon kalıntılarının ve yağ deliklerinin temizlenmesi gerekir. Pistonların tepelerindeki karbon tabakaları dışında, bütün fazla karbon kalıntıları temizlenmelidir. Segman kanallarının temiz olmasına çok dikkat edilmelidir. Yan ve dip yüzeylerin birleştiği kenar kavislerinin temizlenmesi sırasında çizilmeler olmamasına dikkat edilmelidir. Aksi takdirde bu çizilmeler ilerde çatlamların başlangıcı olabilecektir. Pistonların işlenmesine gerek yoktur, çünkü Yenmak segman setleri motorların orijinal pistonlarına uyacak şekilde dizayn edilmektedirler. Yenmak piston segmanlarının kullanılabileceği silindir aşınma sınır değerleri aşağıda belirtildiği gibidir:

Benzin motorlarında çapta en çok 0,1 mm

Dizel motorlarında çapta en çok 0,15 mm

Genelde kullanılan pistonlarda yukarıda belirtilen boşluk değerlerinin içinde bir aşınma olmuşsa da, segman kanallarında aşırı deformasyon olan pistonları mutlaka değiştiriniz. Çünkü segman kanallarındaki form ve paralellikte bozulmalar olan pistonlarda, boşluk değerinin uygun olması yanıtıcı olur ve segmanlar bu tip pistonlarda doğru bir şekilde çalışamaz, yağ sarfiyatı ve üfleme gibi şikâyetlere neden olurlar.

Segmanları yukarı, aşağı eğme bükme hareketleri yapmak, segmanın çalışma yüzeyi formlarının bozulması ve kaplama malzemesinin deforme olmasına neden olabilir. Gözle görülemeyen bu deformasyonlar motor çalışma şartlarında problemlere yol açabilmektedir.

Segmanları (Segman açma pensesi ile) açarak, sırasıyla pistondaki yuvalarına yerleştiriniz. Daha sonra bir segman sıkma kelepçesi veya konik montaj kovanı kullanarak segmanları sıkınız ve pistonun tepesine çekiç sapı ile iterek gerekirse hafifçe vurarak silindir içine kaydırınız. Bu işlem sırasında, ince segmanların kelepçe dışına çıkıp hasarlanmasını önlemek için kelepçenin sürekli bir şekilde blok yüzüne oturmuş olarak tutulmasına dikkat ediniz. İçi krom kaplı gömlekli motorlarda, krom kaplı segmanlar kullanılmamalıdır.

Bir yüzeyinde YEN veya TOP markalaması bulunan segmanların markalamanın bulunduğu yüzleri yanma odasına bakacak şekilde yuvalarına takılmalıdır. Üzerinde herhangi bir markalama olmayan segmanlar her yönde takılabilir.

SEGMAN KAPLAMA VE YÜZEY İŞLEMLERİ

Cr = Krom Kaplama

Mo = Molibden Kaplama

P = Fosfat Kaplama

Fe = Ferrosit Kaplama

Cu = Bakır Kaplama

Nt = Nitrit Kaplama

Sn = Kalay Kaplama

Ck = Krom Seramik

Pvd= Fiziksel Buhar Birikimi

Cdc= Krom Elmas Kaplama

Dlc = Elmas Kaplamalı Karbon Kaplama

Tef = Teflon Kaplama

TEKNİK TANIMLAMALAR

SEGMAN KAPLAMA VE YÜZEY İŞLEMLERİ

Ck (Krom-Seramik Kaplama)

Krom-Seramik Kaplamalar (CK), krom ve alüminyum oksit elementlerinin iç içe oluşturduğu ağ yapısı ile elde edilen kompozit bir kaplama türüdür. Bu kaplamalar ağırlıklı olarak dizel motorlu araçların pistonlarının birinci yuva segmanlarının kaplanmasında kullanılır. CK kaplama, elektroliz yöntemindeki farklılık sebebiyle yüksek kalite ve performansı beraberinde getirir.

Ck kaplamanın sert krom kaplamadan farkları;

- Aşınma direnci daha yüksek
- Erime noktası daha yüksek
- Sertliği ve çatlak yoğunluğu daha yüksek

Bu avantajlarından dolayı kullanıldığı araçlarda CK kaplamalar motor ömrünü uzatmayı, düşük emisyonlu egzoz gazlarının oluşmasını sağlar.

Pvd (Fiziksel Buhar Birikimi)

Sert kaplamaların buhar fazından reaktif olarak ayrışarak segman yüzeyine birikimi sonucunda oluşan bir yöntemdir. Elektrik arkı ya da iyon bombardımanı ile metalin buharlaşması ve iyonlaşması bu yöntem ile sağlanır.

Ayrışmış ve düzenlenmiş metal iyonları bileşenin yüzeyine doğru ilerletilir. Bunun sonucunda metal atomları reaktif gazlar ile reaksiyona girer ve nitrit, karbit, ve oksit oluşturur. Reaksiyon sonrası segman çalışma yüzeyinde ince bir kaplama oluşmuş olur. Kaplama içindeki seramik karakter sayesinde aşınma ve yıpranmalara karşı yüksek direnç gösterir.

Mo (Molibden Kaplama)

Segman çevresi aşınmaları önlemek için molibden ile kaplanır. Yanık izlerinden kaçınılması için segmanların çalışma yüzeyi molibden ile doldurulabilir veya tüm yüzeyi kaplanabilir. Kaplama işlemi, hem alev ile püskürtme hem de plazma ile püskürtme yöntemi ile gerçekleştirilebilir.

Molibden, yüksek erime noktası(2620 C⁰), gözenekli yapısı ve yağlayıcı etkisi sayesinde piston segmanı çalışma yüzeyinin daha dayanıklı olmasını sağlar. Isıl iletkenliği ve sürtünmelere karşı aşınma direnci yüksektir.

Tef (Teflon Kaplama)

- Yağlama olmadan ya da çok az yağlı şartlarda çalışabilme özelliğine sahiptir. Yağlama yetersizliği meydana gelirse yıkımsal iş görmezlik meydana getirmez.
- Segmanda ve temas ettiği yüzeylerde aşınma miktarını azaltır.
- Aşındırıcı gazların kimyasal madde etkisine dirençlidir.
- Yuvarlak/dairesel olmayan yüzeylere uygundur.
- Alıştırma işlemine gerek yoktur.
- Montaj kolaylığı sağlar, kırılğan olmayan /esnek yapısı sayesinde tek parça bir yapıdadır.

Cr (Krom Kaplama)

Segmanların dayanıklılıklarının arttırılmasında yaygın bir biçimde uygulanan yöntem sert kromla kaplamadır. Krom ile kaplamadan amaç aşınmayı azaltarak segmanın ve silindir gömleğinin servis ömrünü uzatmaktır. Segman ve silindir duvarı aşınmasının azaltılması, en üstteki segmanın krom kaplanmasıyla mümkündür. Günümüzde sadece en üst segman değil, aynı zamanda iki veya daha fazla segmanın kromla kaplanması eğilimi vardır.

Kromla kaplamanın sert bir yüzey oluşturması nedeniyle, segmanların kendisinde aşınmayı azaltacağı açıktır.

Kromla kaplama başlıca iki şekilde uygulanmaktadır:

- Sert
- Gözenekli kromla kaplama

Sert krom kaplamada segmanlar yüzeyleri kromla kaplandıktan sonra taşlanarak son şekillerini almaktadırlar. Segmanlar, gözenekli olarak kromla kaplanmalarından dolayı yüzeyleri yağ tutucu bir özellik kazanır. Böylece, hem kendileri ve hem de çalışacakları gömlek yüzeylerinde aşınmanın en aza inmesini sağlarlar.

Nt (Nitrit Kaplama)

Nitrit kaplama işlemi ile segman yüzeyinin tümü sertleştirilir. Bu kaplama ile yüzeyin sürtünmelere karşı direnci arttırılır. Bu sayede segman kullanım ömrü uzatılmış olur. Nitrit kaplama üretimi ve emisyon özellikleri ile çevre dostudur. Nitrit kaplama ile kritik performans yüzeylerinden daha etkin çalışma sonuçları çıktığı görülmüştür. Segmanların hassas noktalarından oluşan yağ kayıplarını azaltır. Dökme demir segmanların kırılma direncini azaltır. Motor ömrünü uzatır.

Cdc (Krom Elmas Kaplama)

Bu kaplama tipi Euro 4 ve dizel motorların tepe segmanlarında kullanılmaktadır. Esnek ve alışımlı dökme demirlere, karbon çeliğine uygulanabilir. Elmas parçacık seramik parçacığın yerine kullanılmıştır. Bu sayede aşınma direnci ve sürtünmeye karşı performansı artmıştır.

Dlc (Diamond Like Carbon) (Elmas Görünümlü Karbon Kaplama)

Bu kaplama sayesinde sürtünme azaltılmakta aşınmaya karşı direnç arttırılmaktadır. DLC kaplama özellikleri itibari ile çevre dostu bir yapıdadır. Kimyasal bağları güçlüdür mekanik gerilim altında kırılmaz. Kristal yapılı değildirler, şekilsizdirler. Bu malzeme yapısından dolayı çok kuvvetli bir malzemedir. Diğer kaplamalara göre daha dayanıklı, sürtünmelere karşı direnci daha yüksektir.

TEKNİK TANIMLAMALAR

	D	= Dikdörtgen segman		TI-IFU	= İç kenar alt yüzey pahlı çift taraflı trapez konik segman
	D-IF	= İç kenar üst yüzey pahlı dikdörtgen segman		TK-IW	= İç kenar üst yüzey kademeli çift taraflı trapez konik segman
	D-IFU	= İç kenar alt yüzey pahlı dikdörtgen segman		TK-IWU	= İç kenar alt yüzey kademeli çift taraflı trapez konik segman
	D-IW	= İç kenar üst yüzey kademeli dikdörtgen segman		N	= Burun sıyrıcı segman
	D-IWU	= İç kenar alt yüzey kademeli dikdörtgen segman		N-IF	= İç kenar üst yüzey pahlı burun sıyrıcı segman
	K	= Konik segman		N-IFU	= İç kenar alt yüzey pahlı burun sıyrıcı segman
	K-IF	= İç kenar üst yüzey pahlı konik segman		N-IW	= İç kenar üst yüzey kademeli burun sıyrıcı segman
	K-IFU	= İç kenar alt yüzey pahlı konik segman		N-IWU	= İç kenar alt yüzey kademeli burun sıyrıcı
	K-IW	= İç kenar üst yüzey kademeli konik segman		TN	= Burun sıyrıcı konik segman
	K-IWU	= İç kenar alt yüzey kademeli konik segman		TN-IF	= İç kenar üst yüzey pahlı burun sıyrıcı konik segman
	TT	= Tek taraflı trapez segman		TN-IFU	= İç kenar alt yüzey pahlı burun sıyrıcı konik segman
	TT-IF	= İç kenar üst yüzey pahlı tek taraflı trapez segman		TN-IW	= İç kenar üst yüzey kademeli burun sıyrıcı konik segman
	TT-IFU	= İç kenar alt yüzey pahlı tek taraflı trapez segman		TN-IWU	= İç kenar alt yüzey kademeli burun sıyrıcı konik segman
	TT-IW	= İç kenar üst yüzey kademeli tek taraflı trapez segman		SC	= Yarıklı yağ kontrol segmanı
	TT-IWU	= İç kenar alt yüzey kademeli tek taraflı trapez segman		DC	= Pahlı yağ kontrol segmanı
	T	= Çift taraflı trapez segman		DB	= Çift pahlı yağ kontrol segmanı
	T-IF	= İç kenar üst yüzey pahlı çift taraflı trapez segman		ES	= Yaprak yaylı yarıklı yağ kontrol segmanı
	T-IFU	= İç kenar alt yüzey pahlı çift taraflı trapez segman		SY	= Spiral yaylı yarıklı yağ kontrol segmanı
	T-IW	= İç kenar üst yüzey kademeli çift taraflı trapez segman		DY	= Spiral yaylı kenarları pahlı yağ kontrol segmanı
	T-IWU	= İç kenar alt yüzey kademeli çift taraflı trapez segman		PS	= Spiral yaylı kenarları çift pahlı yağ kontrol segmanı
	TK	= Çift taraflı trapez konik segman		VF	= Çelik bantlı VF yaylı yağ kontrol segmanı
	TK-IF	= İç kenar üst yüzey pahlı çift taraflı trapez konik segman		UB	= Çelik bantlı U tipi yağ kontrol segmanı
	SDR	= Spiral yaylı V tipi kanallı çelik yağ kontrol segmanı		SDV	= Spiral yaylı V tipi kanallı çelik yağ kontrol segmanı
	X	= Segman kalınlığı (mm)		DKS	= Düz konik silindir uçlu yağ kontrol segmanı

GENEL PİSTON MONTAJ TALİMATI

1- Pistonun monte edileceği silindir iç yüzeyinde baklavamsı honlama çizgileri olmalıdır. Şayet montaja hazır piston kullanılmış ve/veya aşınmış silindire monte edilecekse, silindir iç yüzeyi honlama çizgilerinin uygunluğu açısından kontrol edilmelidir. Eğer silindir iç yüzeyinde honlama çizgileri kısmen veya tamamen kaybolmuş ve parlak bir yüzey oluşmuşsa, silindir iç yüzeyi honlama çizgileri tekrar oluşacak şekilde honlanmalıdır.

2- Bütün pistonlar, doğru ölçülü bir silindir içine monte edildiklerinde belirlenmiş olan doğru piston-silindir çalışma boşluğu oluşturmaları için hassas olarak imal edilirler. Silindir iç çapları, kutu üstündeki etiketlerde gösterilen ölçülere uygunluklarını kontrol etmek ve bu şekilde yeniden işlenmelerinin gerekli olup olmadığını saptamak için kontrol edilmelidir. Yıpranmış silindirlerin iç çapları üst ölçüye işlenmesi gerektiğinde, üst ölçü nominal çapı 0.000-0.025 mm toleransında işlenmesi tavsiye edilir.

3- Montaja hazır pistonlardan piston pimi, piston ve pime zarar vermeyecek şekilde uygun metodlarla çıkarılmalıdır. Piston pimleri ilgili pistonlara ölçüsel uygunlukları sağlanacak şekilde eşleştirilerek monte edilmiştir, rastgele değiştirilmemelidir.

4- Segmanların piston takılması esnasında segmanları deforme etmeyecek ve piston zarar vermeyecek şekilde uygun ekipman kullanınız. Pistonun silindire montajı esnasında uygun bir segman sıkma kelepçesi veya konik montaj kovanı kullanınız. Uygun şekilde segman sıkma işlemi gerçekleştirildikten sonra pistonu silindir içerisine aşırı kuvvet uygulayarak veya vurarak monte etmekten kaçınılmalı, parmak kuvveti ile dikkatlice monte edilmelidir.

5- Pistonun silindire montajından önce pistonun dikkatlice temizlenmesi ve özellikle piston pim deliğinin temizlenerek yağlanması önemlidir. Montaj öncesi silindir içleri ilk çalışma esnasında yağlama gerçekleşene kadar piston ve silindirin zarar görmemesi için iyice yağlanmalıdır.

6- Şayet piston tepe kısmında montaj yönünü belirtir işarete yönelik markalama mevcutsa, montaj esnasında bu işaret dikkate alınarak uygun şekilde montaj gerçekleştirilmelidir.

7- Pistona, piston pimine ve segmana zarar vermemek için azami dikkat gösteriniz.

8- Pistonlar genel kabul gören normlar doğrultusunda birlikte kullanılacakları diğer parçalara uygun üretilmektedir. Bu sebeple sonradan üzerinde işlem yapmayınız.

9- Pim ve emniyet segmanları yeniden kullanılmamalıdır, her zaman yeni pim ve emniyet segmanı kullanınız.

10- Montajda kullanılacak biyel kolunun doğrusalığının kontrolü, doğabilecek çok ciddi sorunların önüne geçilmesi açısından önemlidir. Biyel kolunun doğrusalığı, montaj öncesinde uygun cihazlarla yeniden kontrol edilmelidir.

NOT : Bu montaj talimatında belirtilenlere uygun hareket edilmelidir. Talimata uygun olmayan montajdan kaynaklanacak sorunlardan üretici sorumlu tutulamaz.

TEKNİK TANIMLAMALAR

8- PİSTON MARKALAMA VE KODLAR



9- PİSTON REFERANS NUMARASI

ÖRNEK

Piston referans numarası

11-01513-000

- 000 = STD / Piston + Segman
- 001 = Kompresyon (strok) yüksekliği -0,20 mm kısa
- 002 = Kompresyon (strok) yüksekliği -0,40 mm kısa
- 003 = Kompresyon (strok) yüksekliği -0,60 mm kısa
- 050 = +0,50 mm üst ölçü / Piston + Segman

ESKİ REFERANS NUMARASI	YENİ REFERANS NUMARASI
1513 000	11-01513-000

10- PİSTON + SEGMAN REFERANS NUMARASI

ÖRNEK

Piston + Segman referans numarası

31-03513-000

- 000 = STD / Piston + Segman
- 050 = +0,50 mm üst ölçü / Piston + Segman

ESKİ REFERANS NUMARASI	YENİ REFERANS NUMARASI
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

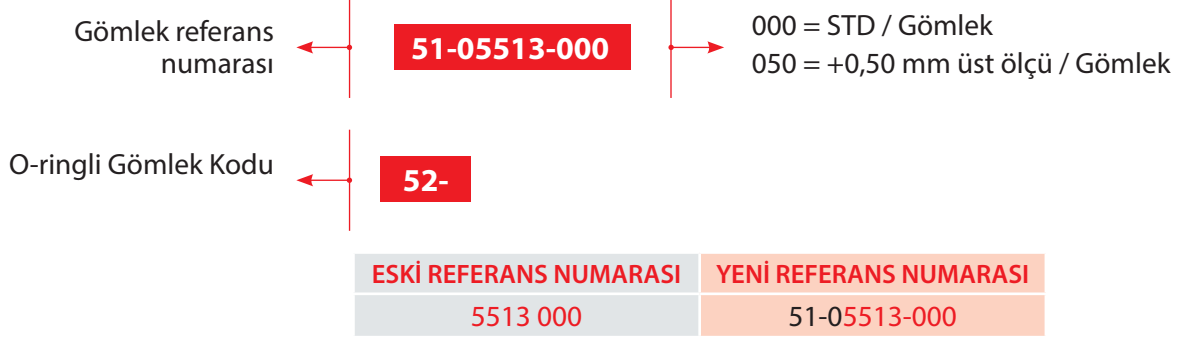
Segman tip ve kaplamalarındaki farklılıklar.

38-

39-

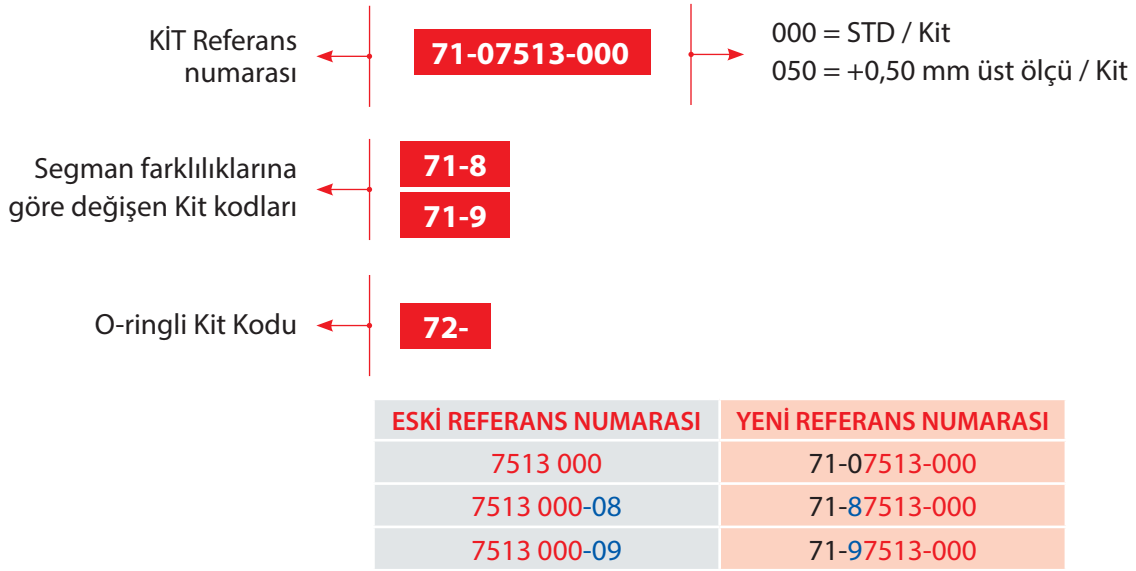
11 - GÖMLEK REFERANS TANIMLAMALARI

ÖRNEK

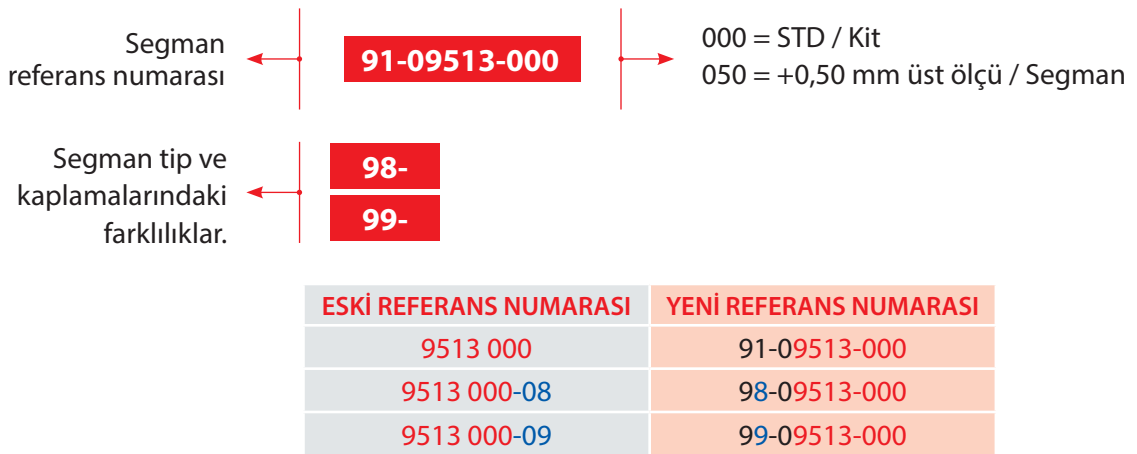


12 - KİT, SET, REFERANS TANIMLAMALARI

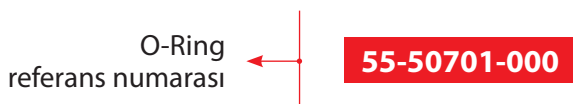
KİT Referans : Piston + Pim + Segman + Gömlek



13 - SEGMAN REFERANS NUMARASI

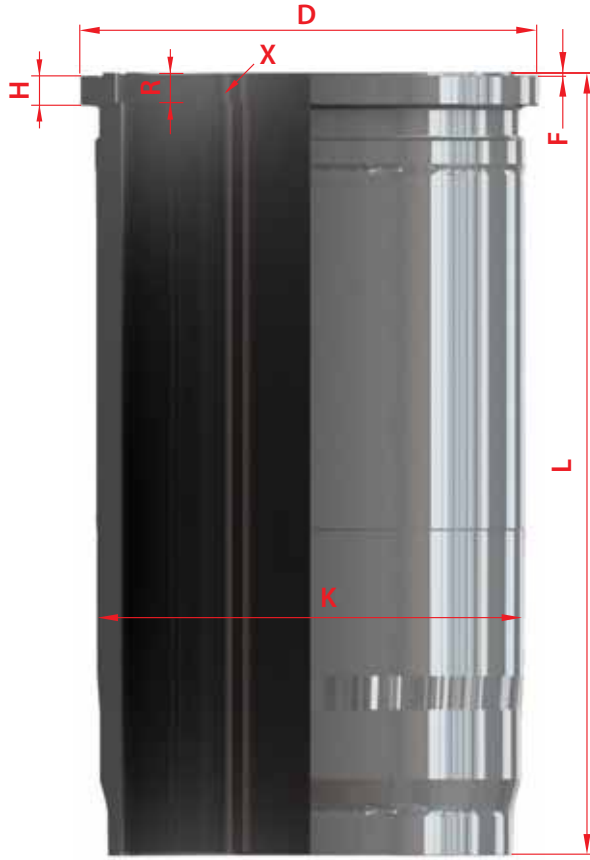


14 - O-RİNG REFERANS NUMARASI



TEKNİK TANIMLAMALAR

SİLİNDİR GÖMLEĞİ TEKNİK AÇIKLAMA



- K = Dış çap
- L = Toplam boy
- H = Flanş boyu
- F = Conta derinliği
- D = Flanş çapı
- X = Kurum yeri segman boyu
- R = Kurum yeri boyu

TSE 482' ye Göre Silindir Gömleklerinin Tanımı:

Silindir gömlekleri içten yanmalı motorlarda, silindir blokuna takılan, içinde pistonun hareket ettiği ve yakıtın yandığı, silindir biçiminde kır döküm makine elemanıdır.

Motor Silindir Gömlekleri iki sınıfta incelenebilir.

Yaş Silindir Gömlekleri:

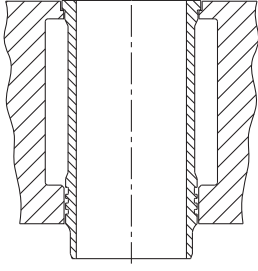
Takıldıkları silindir blokunda dıştan su ile soğutulan gömleklerdir.

3 ana grupta toplanır:

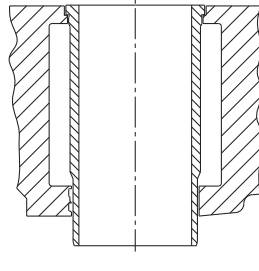
a- Flanşlı ve Kanallı: Silindir blokuna, üstten flanşla oturan, alt kısmında motor soğutma suyunun sızmasını sağlamak için conta kanalları bulunan gömleklerdir. (Şekil-1)

b- Flanşlı ve Kanalsız: Silindir blokuna, üstten flanşlı oturan ve alt kısımda conta kanalları bulunmayan gömleklerdir. Sızdırmazlık contaları blokta açılan kanallarda bulunur. (Şekil-2)

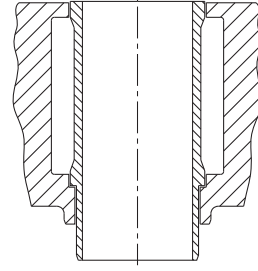
c- Çift Flanşlı: Silindir blokuna, motor soğutma suyunu kaçırmayacak şekilde üstten ve alttan flanşlı ve contalı olarak tespit edilen silindir gömleklerdir. (Şekil-3)



Şekil - 1



Şekil - 2



Şekil - 3

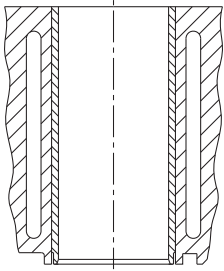
Kuru Silindir Gömlekleri:

Takıldıkları silindir blokunda soğutma suyu ile direkt olarak temas etmeyen gömleklerdir.

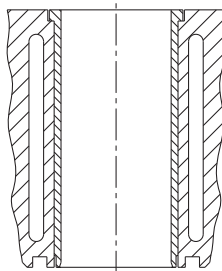
Şekil yönünden 2 ana sınıfa incelenebilir:

A- Flanşlı (Şekil-4)

b- Flanşsız-Düz (Şekil-5)



Şekil - 4



Şekil - 5

SİLİNDİR GÖMLEKLERİNİN MONTAJINDA DİKKAT EDİLECEK HUSUSLAR

KURU SİLİNDİR GÖMLEKLERİ İÇİN MONTAJ TALİMATI

Kuru silindir gömlekleri flanşlı ve flanşsız olarak imal edilir. (Şekil-6) Kötü çalışma şartları altında bulunan flanşsız gömleklerde pistonun takılması halinde aksel yönde sık sık görülmesi muhtemel olan kaymalara flanşlı gömleklerde rastlanmaz. Bu da flanşın sağladığı bir avantajdır.

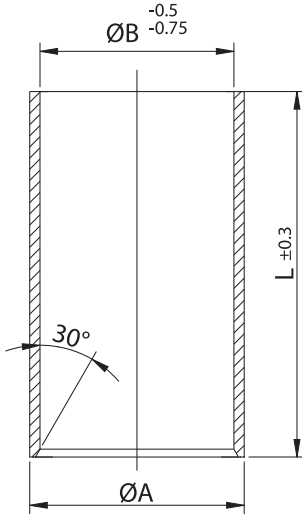
Gömlekler, silindire preslenmeden önce mutlaka silindirler aşağıdaki listede gömlek dış çapı için (A) gösterilen Nominal ölçülere uygun olarak ya taşlanır veya hassas tornalama ve honlama işlemine tabi tutulur.

Aşağıdaki toleranslara özellikle dikkat edilmelidir. (Şekil-7) Aksi takdirde ön gerilim çok düşük ise ısı transferinin sıhhatli olmayacağı, ön gerilim çok yüksek ise çok ince cidarlı olan gömleklerin silindire uyumsuzluklar sebep olma tehlikesini doğuracağı ve bu yüzden işletme arızalarına sebebiyet vereceği, ortaya çıkması muhtemel olan hususlardır. Dış çapları nihai ölçü olarak işlenen kuru gömlekler iç çapları yaklaşık olarak 0.5-0.75 mm küçük olarak tormalanarak sevk edilir.

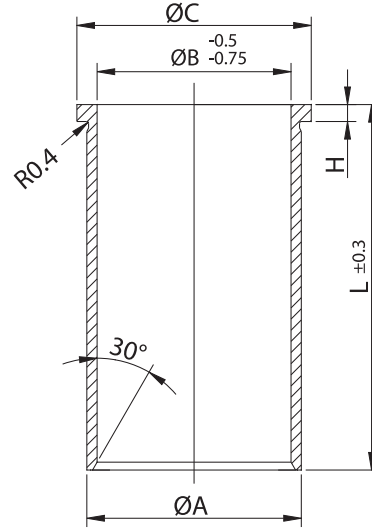
Flanşlı kuru gömleği silindir bloğuna presle monte ederken, flanşın kopmasını önlemek maksadı ile, blokta flanş için işlenen deliğin, flanşın dış çapından (C) daha büyük olarak işlenmesi gerekir

TEKNİK TANIMLAMALAR

Flanşlı kuru gömlekler, pres geçme yapılırken, flanşın alt yüzeyinin bloktaki yuvanın oturma yüzeyine çok iyi bir şekilde oturması sağlanmalıdır.



Şekil - 6



Şekil - 7

Bilindiği gibi gömlekler, flanşın alt tarafında yaklaşık 0.4 mm lik bir radyüse sahiptir. Gömleğin bloka montajında bu radyüsün oturmasını önlemek için, blokta flanşın oturduğu geçiş bölgesine 1.0 mm lik bir pah verilmelidir. Aksi takdirde gömlek flanşının kopması kaçınılmazdır.

Yeni gömlekler monte edilmeden önce motor blokundaki silindirler özenle temizlenmeli ve ölçüleri hassas olarak kontrol edilmelidir. Ovallık ya da koniklik 0.025 mm yi aşmamalıdır. Honlama yapılırken parlak bir yüzey elde edilmeye çalışılmalı ve motorun tipine göre yüzey pürüzlülük değerleri kontrol edilmelidir. Çok parlak ve pürüzsüz yüzeyler yağlamanın eksik olmasına sebep olacağı için bu durumdan kaçınılmalıdır.

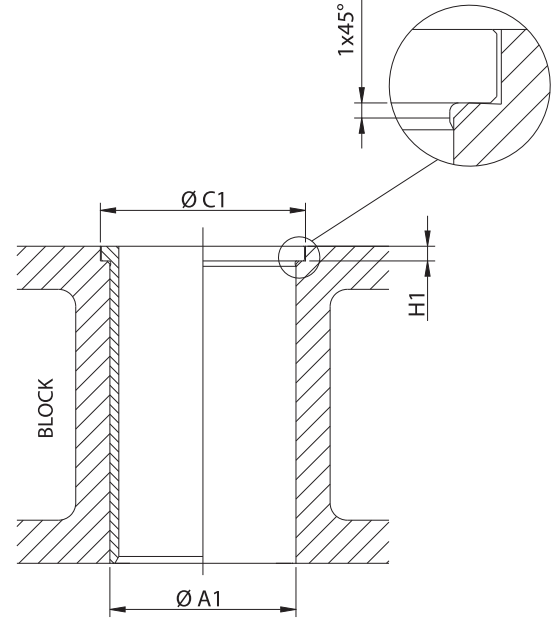
Kuru silindir gömleklerinin presle basılmalarında 3000-5000 kg lık bir basınç yeterlidir. Montaj esnasında yağlama maddesi olarak katı bir madde kullanılacak olursa daha sonra ısıdan dolayı bu madde kokalaşacak ve ısı transferini zorlaştıracaktır. Presle yapılan montajdan sonra silindir blokunu conta yüzeyinden taşlamalar yüzey taşlama ile alınmalıdır.

Silindir bloğunun conta yüzeyini işleme tabi tutmak gerektiği takdirde, buna uygun olarak flanşın yuvadaki oturma yüzeyi daha derin işlenmelidir. Ayrıca dış çapları bitmiş ölçüde iç çapları ise hassas tornalanmış silindir gömlekleride mevcuttur.

Bu gömlekler çok az bir honlama payına haiz olarak silindire preslenirler ve preslenmiş durumda honlanırlar. Silindirin iç çapı nominal ölçü toleransı +0 ile +0.015 mm. Silindir gömleğinin dış çapı ise nominal ölçü toleransı +0.012 ile 0.024 mm. arasındadır.

	Gömlek Dış Çap Grupları		
	50 - 80	80 - 120	120 - 180
QA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
QC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

	Blok Delik Çapları (mm)		
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
QC ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25



Şekil 9

SULU SİLİNDİR GÖMLEKLERİ MONTAJ TALİMATI

YENMAK Motor Silindir Gömlekleri aşınmaya ve çekmeye karşı mukavim bir yapı özellikleri elde edilmesini sağlayan savurma döküm yöntemiyle imal edilir. Silindirde oturma yüzeylerinde tahribata sebep olmamak için eski gömlekler çıkartılırken büyük bir itina gösterilmelidir.

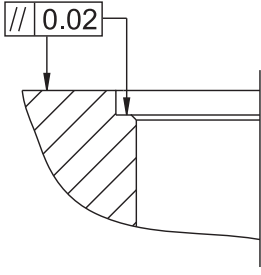
Motor blokunda silindirlerin temas yerleri kireç çamur ve diğer kirli maddelerden özenle temizlenmelidir. Temizlik esnasında çizilmeye yol açacak raspa, keski gibi aletler kullanılmamalıdır. Bu işlem için elverişli araç çelik telli fırçadır. Pas kireç tabakaları ile silindirde sabitleşen gömleklerin çıkarılması için üzerlerine konan bir araç takoz parçasına çekiçle vurulur, buna rağmen gömlek çıkartmak mümkün olmazsa o zaman hidrolik pres'e başvurulur. Temizleme yapılırken oturma yüzeylerine son derece dikkat edilerek, hasar görmemeleri sağlanmalıdır.

Gömlek flanş alt yüzeyinin oturduğu yüzey bloku yüzeyine paralel olmalı. (Şekil-10) da gösterildiği gibi düzgünlük ve düzlemsellik bakımından farklılık göstermemelidir. Ayrıca silindir eksenin, silindir blokunun conta yüzeyine dik olup olmadığı kontrol edilmelidir. (Şekil-11) Daima dikkat edilmesi gereken bir konuda silindirdeki oturma yüzeylerinin ezilerek tahrip edilmemeleridir. (Şekil 12)

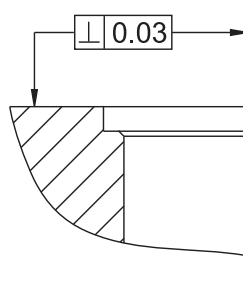
Gömlek flanş alt yüzeyindeki radyüsün (d) silindirdeki flanş oturma yüzeyi (a) daki köşeye oturmasını önlemek için silindir çapını (c) geçiş yaptığı noktada 0.5-1.0 mm. 45° lik bir radyüs verilmelidir.

Kırılma tehlikesinin önlenmesi için sızdırmazlık kuvveti ile karşı kuvvet düşey olarak karşılıklı bulunmalıdır.

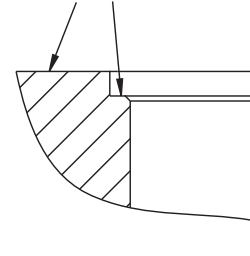
TEKNİK TANIMLAMALAR



Şekil 10

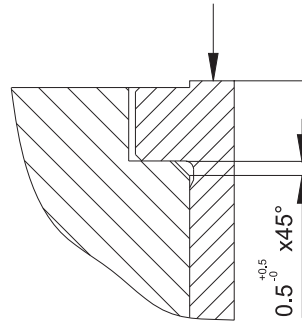


Şekil 11

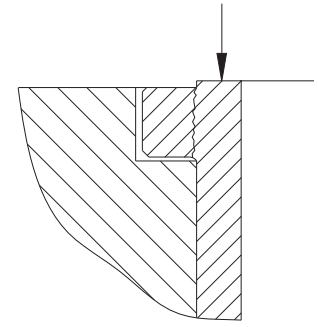


Şekil 12

Contaların delik çapı (b) ile gömleğin dış çapı (c) birbirine eşit olmalıdır. Yanma odasında tam bir sızdırmazlığın sağlanabilmesi için metal çerçeveli contaların kullanılması gerekir.



Şekil 14



Şekil 15

Gömleğin kolaylıkla yerleşip yerleşmediğini ve bloktaki silindirin çok büyük yahut çok geniş olup olmadığını tespit etmek için, gömlekler montajdan önce el ile lastik ring kullanmadan silindire sokulmalıdır. Bilhassa gömlek flanşının blok yüzeyine olan pozisyonunun doğru olup olmadığını tespit etmek için, montajdan önce gömlekleri ters çevirerek, flaş tarafından, flaş oturma yüzeyine yerleştirilmesi tavsiye edilir. Flaş bilindiği gibi, motorun soğumayan bölgesinde olup genleşmek durumundadır. Burada 0.3-0.5 mm. lik bir boşluk nazari dikkate alınmalıdır.

Bu montaj talimatında her fırsatta önemle vurgulanan şey, gömleği takma ve sökme işleminin maksada uygun olarak yapılması hususudur. Yani montaj esnasında çekiç vb. diğer ağır takımların kullanılmasıyla ki bu şekil doğru değildir, ortaya çıkan hatalar kötü sonuç verir.

Montaj esnasında kullanılacak lastik ringler mutlaka kaliteli olmalı ve kabarmaya, eskimeye dayanıklı, yağ ve ısıya karşı mukavim olmalıdır. Aksi halde kartere su inmesi, gömleğin sıkışmasına ve ölçülerin bozulmasına yol açar. Lastik ringlere her defasında yağlama sabunu sürülür ve böylece yuvalarına yerleştirilir.

Lastik ringler olarak yalnızca motor üreticileri tarafından kullanılan kaliteli markalar tercih edilmelidir. Bu tercihteki asıl sebep lastik ringlerin kabarmaya ve eskimeye dayanıklı, yağ ve ısıya karşı mukavim olmalarıdır.

Gömlekte kopmalara neden olan piston krepajı, uygun olmayan lastik ring kullanmanın bir neticesidir. Lastik ringlerin oturduğu kısımlar hiçbir zaman kazanmamalıdır.

Gömlekler el ile yerleştirildikten sonra silindirin ölçüsünü bir kere daha kontrol edilmesinde fayda vardır. Bu kontrol bilhassa lastik ringlerin bulunduğu bölgelerde ovalleşme ve büzülmelerin meydana gelebileceği yerlerde yapılmalıdır.

Gömlekler tamamen yerleştirildikten sonra silindir bloku su ile doldurularak sıkıştırılmalı ve sızdırmazlık durumu mutlaka kontrol edilmelidir.

GÖMLEK MARKALAMA DETAYI







O-RİNG (GÖMLEK LASTİĞİ)

Sızdırmazlık parçalarından o-ring, motorun çalışmasını ve performansını etkileyen önemli parçalardan bir tanesidir. Tek O-ring kodlarımızı veya O-ringli kit ve gömlek referans numaralarımızı kullanarak ürünlerimizi sipariş verebilirsiniz.

O-Ring Materyalleri	
EPDM	Kauçuk EPDM
NBR	Kauçuk
FPM / VI	Viton
Cu	Bakır
T	Tombak
ST	Çelik
SC / MVQ	Silikon
Shim / SM	Yumuşak Metal



93,000		1	3	4	5	6	7					
4JB1		2	D	00	2005	>	00	2005	4 Cyl	2771cc	57kW	(78ps)
 <p>11-02385-000</p> <p>CH 51,850</p> <p>VD1 0,550</p> <p>B- 19,500</p> <p>BØ 43,900</p> <p>TL 91,850</p>		8	14	91-09389-000	16	17	18	19				
 <p>31,00x76,00</p>		15		99-09389-000	16			39-04385-000				
Isuzu ve Opel ile Ortak Motor		27										
 <p>K=95,00</p> <p>L=181,00</p> <p>H=0,90</p> <p>D=101,00</p>		22	26				51-35721-000	71-08385-000	71-98385-000			
 <p>K=120,00</p> <p>L=229,00</p> <p>H+F=9,00+1,10</p> <p>D=128,50</p>		22	26				51-06067-000	71-07152-000	72-07152-000			
							55-50613-000	52-06067-000				
							2 FFM 112,00x3,00					

- | | |
|---------------------------------|---|
| 1 - Piston Çapı | 17 - Piston Kafa Çıkıntısı |
| 2 - Araç Bilgisi | 18 - Silindir Çapı |
| 3 - Yakıt Bilgisi | 19 - Piston + Segman Kodu |
| 4 - Model Yılları | 20 - Gömlek Kodu |
| 5 - Silindir Sayısı | 21 - Kit + O-Ring Kodu |
| 6 - Silindir Hacmi | 22 - Silindir Dış Çapı |
| 7 - Motor Gücü | 23 - Gömlek Flanş Çapı |
| 8 - Piston Kodu | 24 - Gömlek Tam Boyu |
| 9 - CH: Kompresyon Yüksekliği | 25 - Flanş Fatura Kalınlığı |
| 10 - VD1/VD2: Supap Derinliği | 26 - Gömlek Özellikleri |
| 11 - B- : Yanma Odası Derinliği | *WS : İç çapı semi yağ gömlek |
| B+ : Tepe Bombesi | *WF : İç çapı honlanmış yağ gömlek |
| 12 - BØ: Hücre Çapı | *DS : İç çapı semi kuru gömlek |
| 13 - TL: Tam Boy | *DF : İç çapı honlanmış kuru gömlek |
| 14 - Piston Özellikleri | *AF : İç çapı honlanmış hava soğutma gömlek |
| *DAP: Double Alfinli Piston | *PH : Fosfat |
| *AP: Alfinli Piston | *CR : Krom |
| *YS: Yağ Soğutmalı Piston | *HR : Sertleştirilmiş |
| *CP: Çelik Saclı Piston | *NT : Nitrür |
| *HA: Hard Anodized Kaplamalı | *HT : Isıl İşlem |
| *PDB: Pim Deliği Burçlu | *STEEL: Çelik |
| 15 - Pim Çapı - Boyu | 27 - Ortak Motor |
| 16 - Segman Özellikleri | 28 - O-Ring Kodu |

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Компания Yenmak была основана в 1965 году в Конье семьей Кахведжиоглу в качестве небольшой семейной мастерской. На протяжении последующих лет компания YENMAK постоянно обновлялась и развивалась, в результате чего стала одним из крупнейших мировых поставщиков деталей для двигателей, как на внутреннем, так и на внешнем рынке.

Сегодня компания Yenmak, производящая КОМПЛЕКТЫ, ПОРШНИ, ПОРШНЕВЫЕ ПАЛЬЦЫ, КОЛЬЦА и ГИЛЬЗЫ ЦИЛИНДРОВ ДВИГАТЕЛЯ и поставляющая УПЛОТНИТЕЛИ, КЛАПАНЫ И ВКЛАДЫШИ ДЛЯ ДВИГАТЕЛЯ, экспортирует свою продукцию в более чем 80 различных стран на 5 континентах.

В качестве долгосрочного бизнес-партнера для вас, наши дорогие клиенты, компания обеспечивает для своих клиентов комплексную поставку из одного источника всех деталей двигателя, представленных в ассортименте компании, в дополнение к окончательной надежности, самому лучшему качеству и разумной цене предлагая продажное и послепродажное обслуживание. Помимо этого YENMAK знает, что человеческий фактор является наиболее важным среди всех компонентов, и поэтому придает большое значение взаимоотношениям с клиентами и высоко ценит их.

Компания YENMAK имеет сертификаты INMETRO, ISO 9001, ISO / TS 16949, IATF 16943, TS EN ISO 14001. На сегодняшний день компания, имеющая 2 фабрики и здание центральной администрации и логистики, ведет деятельность на площадях в 50.000 квадратных метров в 1-й, 2-й и 3-й Организованной промышленной зоне города Коньи.

Сбытовая и маркетинговая деятельность компании осуществляется в экспортном офисе YENMAK, который находится в Стамбуле.



Центральная администрация и логистика



Фабрика поршней и пальцев



Фабрика гильз цилиндров

ЦЕНТАК®

ДЕТАЛИ ДЛЯ ДВИГАТЕЛЕЙ



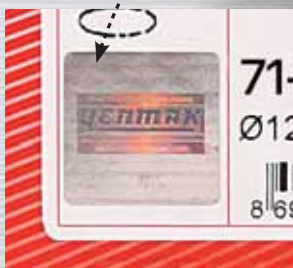


Начиная с 2003 года, продукция компании Yenmak упаковывается и поставляется на рынок в представленном ниже виде. Сведения, содержащие подробную информацию об упаковке, представлены ниже:

Благодаря нашей специальной наклейке на стыке коробки с крышкой станьте первым, кто коснется продукта.



Номер отслеживаемости

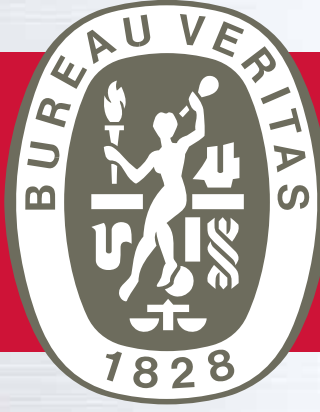


Защитная 3D-голограмма, которая интегрирована в поверхность упаковки с целью обеспечения защиты продукции.



Защитная этикетка в нижней части упаковки с целью обеспечения защиты продукции.

BUREAU VERITAS Certification



ISO 14001
ISO / TS 16949
BUREAU VERITAS
Certification



СОСТАВНЫЕ СТАЛЬНЫЕ ПОРШНИ



Составные стальные поршни состоят из подвижно соединенных друг с другом на поршневом пальце стальной головки поршня и алюминиевого вала поршня. Благодаря высокой прочности и низким значениям износа эти поршни, в основном, обеспечивают работу дизельных двигателей, предназначенных для тяжелого режима работы, в низких пределах выхлопных газов и эмиссии.

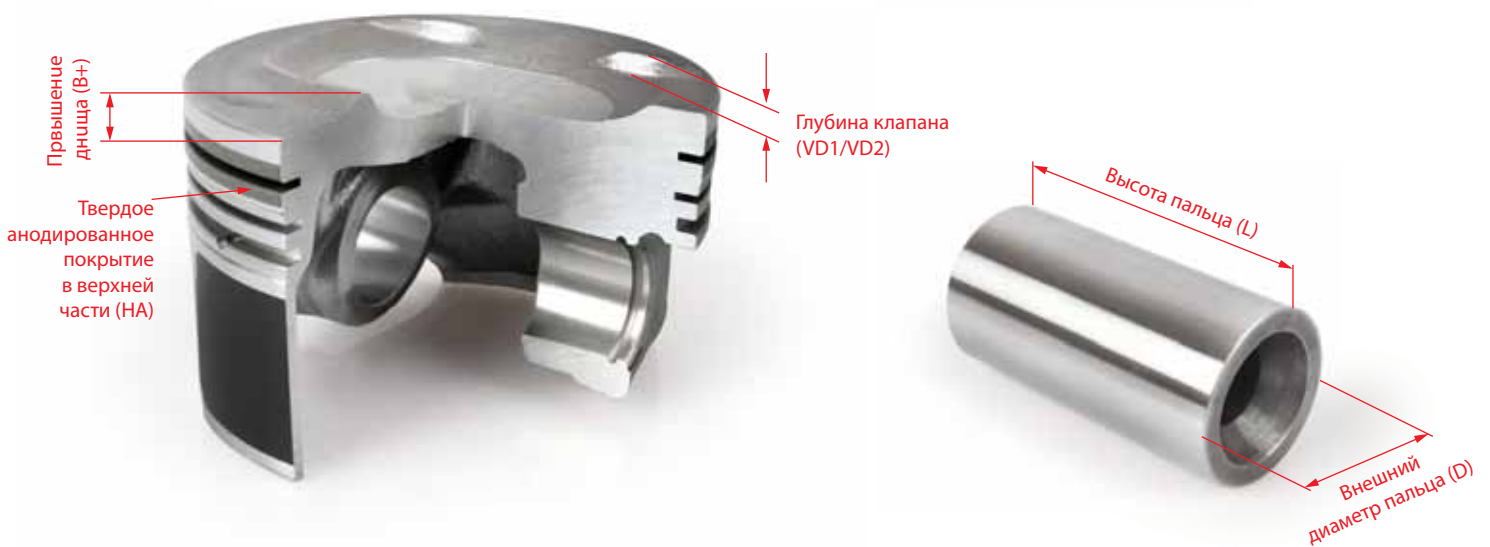
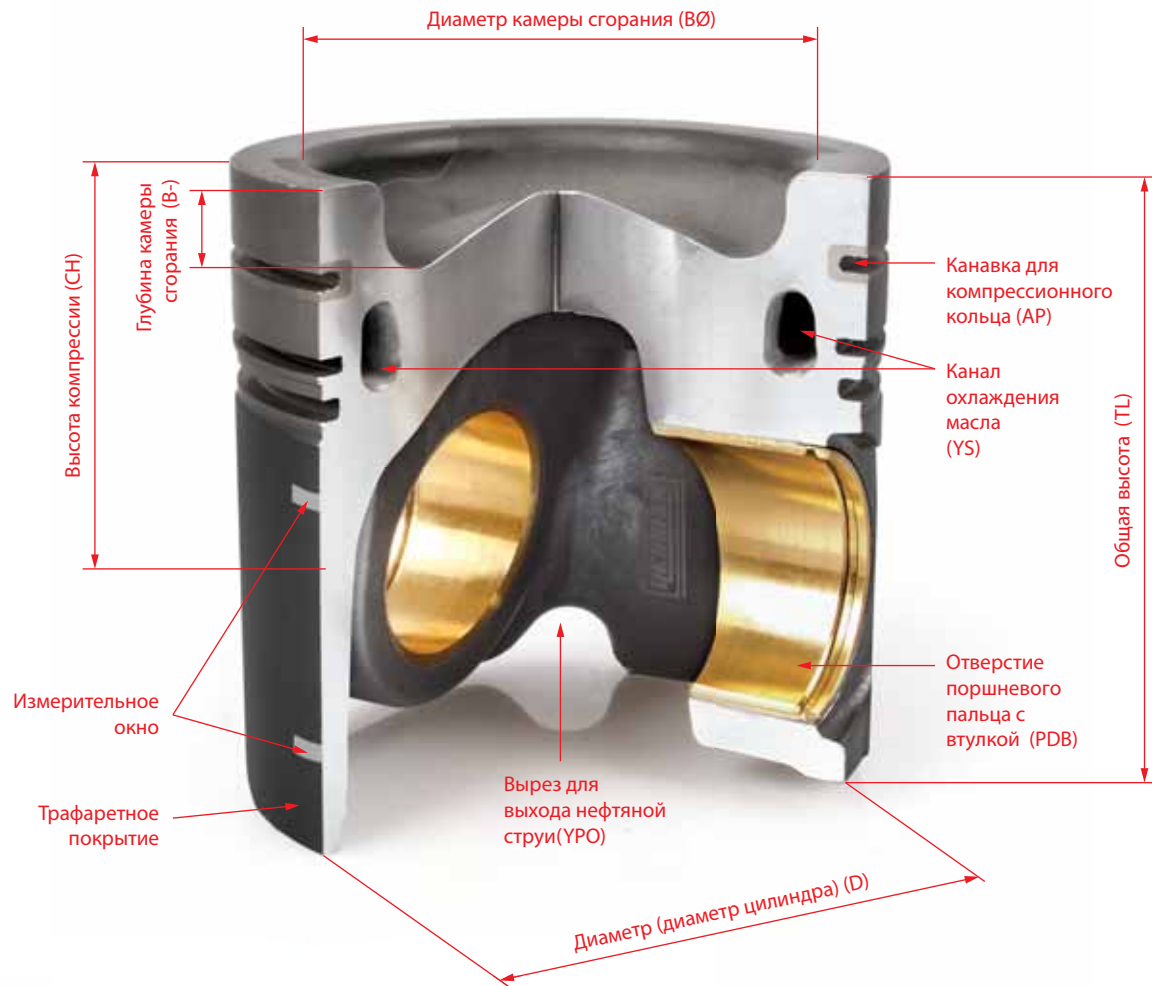
Составные стальные поршни используются:

- В двигателях нового поколения с высокими коэффициентами сжатия и с современными камерами сгорания,
- В дизельных двигателях, предназначенных для тяжелого режима работы,
- В двигателях, в которых используются мультитопливные системы,

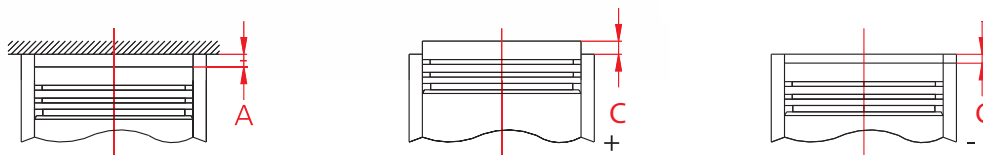
Преимущества составных стальных поршней:

- По сравнению с алюминиевыми поршнями составные стальные поршни обеспечивают меньшие потери от сил трения за счет меньшего контактного расстояния с гильзой цилиндра.
- По сравнению с алюминиевыми поршнями составные стальные поршни за счет своей высокой стойкости к тепловой нагрузке уменьшают риск деформации гильзы и могут работать в меньшей полости цилиндра, улучшают уплотнительные свойства колец.
- Если обычный алюминиевый поршень выдерживает давление до 100 бар, то стальной поршень таких же параметров может выдержать давление до 250 бар.
- Обеспечивают более высокий коэффициент сжатия в двигателе и уменьшение уровня выбросов CO₂ на 2-5%. Обеспечивают уменьшение контактных проблем, возникающих из-за материала алфин (нирезист), который используется в алюминиевых поршнях для дизельных двигателей.
- В поршнях с охлаждающим каналом дают возможность более близкого расположения охлаждающего канала к верхней части поршня, что приводит к обеспечению более эффективного охлаждения.
- По сравнению с алюминиевыми поршнями составные стальные поршни обладают минимальной деформацией камеры сгорания.
- Благодаря положительному влиянию на увеличение срока службы двигателя составные стальные поршни уменьшают затраты на ремонт двигателя.
- При использовании составных стальных поршней не возникает таких проблем, как плавка поршня, прогорание поршня, вызываемых чрезмерными показателями систем наддува и систем впрыска топлива.

ТЕХНИЧЕСКИЕ ОПРЕДЕЛЕНИЯ



Размеры поршневых зазоров



A = Расстояние до головки блока цилиндров

C = Расстояние от головки поршня до поверхности блока цилиндров

ИНСТРУКЦИЯ ПО УСТАНОВКЕ ПОРШНЕВЫХ КОЛЕЦ YENMAK

Если вы хотите установить кольца на бывшие в употреблении поршни, то следует произвести очистку поршней, канавок для поршневых колец от углеродного нагара, а также масляных отверстий. Помимо углеродного слоя на верхушках поршней должны быть вычищены все излишки углеродного нагара. Следует уделить большое внимание чистоте кольцевых канавок. Следует обратить внимание, чтобы во время очистки краевых стыков в местах схождения боковых и нижних поверхностей не оставалось царапин. В противном случае в будущем подобные царапины могут положить начало образованию трещин. Наборы поршневых колец Yenmak разрабатываются таким образом, чтобы соответствовать оригинальным поршням двигателей, поэтому нет необходимости подвергать поршни обработке. Предельные значения износа цилиндра, при которых могут быть использованы поршневые кольца Yenmak, представлены ниже:

Для бензиновых двигателей - максимум 0,1 мм в диаметре

Для дизельных двигателей - максимум 0,15 мм в диаметре

Как правило, даже если износ, присутствующий в бывших в употреблении поршнях, находится в пределах вышеуказанных значений зазоров, обязательно замените поршни, имеющие чрезмерную деформацию в канавках поршневых колец. Потому что в поршнях с нарушениями формы и параллельности канавок поршневых колец значение зазора может быть обманчивым, а кольца в таких поршнях не могут выполнять свои функции должным образом, что приводит к жалобам на повышенный расход масла и утечку газов.

Отгибание поршневых колец вверх, вниз, их сгибание может привести к нарушению формы рабочей поверхности поршневого кольца и деформированию материала покрытия. Подобные невидимые невооруженным глазом деформации могут привести к проблемам в условиях работы двигателя.

Раскройте поршневые кольца (при помощи щипцов для снятия поршневых колец) и поочередно поместите их в канавки поршня. Затем затяните кольца, используя зажим для сжатия поршневых колец или конический монтажный кожух, и подвиньте их в направлении верхней части поршня, подталкивая их ручкой молотка, а при необходимости слегка ударяя по ним ею. Во время этой процедуры старайтесь держать зажим таким образом, чтобы он непрерывно сидел на блоке, для предотвращения повреждения тонких поршневых колец в случае, если они выйдут за пределы зажима. В двигателях, внутренние поверхности гильз цилиндров которых покрыты хромом, не должны использоваться хромированные поршневые кольца.

Те поршневые кольца, на одной из сторон которых имеется маркировка YEN или TOP, должны устанавливаться в канавки таким образом, чтобы поверхность с маркировкой была обращена к камере сгорания. Поршневые кольца без какой-либо маркировки могут устанавливаться в любом положении.

ВИДЫ ПОКРЫТИЙ И ОБРАБОТКИ ПОВЕРХНОСТЕЙ ПОРШНЕВЫХ КОЛЕЦ

Cr = Хромовое покрытие

Mo = Молибденовое покрытие

P = Фосфатное покрытие

Fe = Покрытие оксидом железа

Cu = Медное покрытие

Nt = Нитридное покрытие

Sn = Оловянное покрытие

Ck = Хромо-керамика

Pvd = Физическое осаждение из паровой фазы

Cdc = Хромо-алмазное покрытие

Dlc = Углеродное покрытие с алмазным напылением

Tef = Тефлоновое покрытие

ТЕХНИЧЕСКИЕ ОПРЕДЕЛЕНИЯ

ВИДЫ ПОКРЫТИЙ И ОБРАБОТКИ ПОВЕРХНОСТЕЙ ПОРШНЕВЫХ КОЛЕЦ

Ск (хромо-керамическое покрытие)

Хромо-керамическое покрытие (СК) представляет собой разновидность композитного покрытия, образованного сетчатой структурой, формируемой соединением элементов хрома и оксида алюминия. Эти покрытия используются в основном в транспортных средствах с дизельными двигателями для покрытия первых компрессионных поршневых колец. Благодаря отличиям в процессе электролиза покрытие СК обеспечивает высокое качество и производительность.

Отличия покрытия Ск от покрытия твердым хромом:

- Более высокая износостойкость
- Более высокая точка плавления
- Более высокая твердость и интенсивность трещин

Благодаря вышеуказанным преимуществам покрытия СК обеспечивают продление срока службы двигателей транспортных средств, в которых они используются, а также формирование выхлопных газов с низкой теплоотдачей.

Pvd (Физическое осаждение из паровой фазы)

Метод, при котором твердые покрытия, реактивным образом диссоциируя в паровой фазе, оседают на поверхности поршневого кольца, носит название метода PVD. При данном методе обеспечивается испарение и ионизация металла посредством электрической дуги или ионной бомбардировки.

Диссоциированные и упорядоченные ионы металла направляются непосредственно на поверхность детали. В результате этого атомы металла вступают в реакцию с реактивными газами и образуют нитриды, карбиды и оксиды. Таким образом, по окончании реакции на рабочей поверхности поршневого кольца формируется тончайшее покрытие. Благодаря своей керамической составляющей покрытие обладает высокой устойчивостью к износу.

Mo (Молибденовое покрытие)

Окружность поршневого кольца покрывается молибденом для предотвращения износа. В целях избегания следов горения молибденом может быть покрыта только рабочая поверхность поршневых колец, либо же вся их поверхность. Процесс нанесения покрытия может осуществляться либо методом пламенного распыления, либо методом плазменного распыления. Благодаря высокой температуре плавления (2620 С°), пористой структуре и смазочным эффектам молибден обеспечивает дополнительную прочность рабочей поверхности поршневого кольца. Обладает высокой теплопроводностью и стойкостью к износу и истиранию.

Cr (Хромовое покрытие)

Покрытие твердым хромом - это метод, который широко применяется для увеличения долговечности поршневых колец. Цель хромового покрытия - уменьшение износа и увеличение срока службы поршневых колец и гильз цилиндра. Уменьшение износа поршневого кольца и стенок цилиндра возможно путем нанесения хрома на самое верхнее поршневое кольцо. В настоящее время имеется тенденция к покрытию хромом не только самого верхнего кольца, но и второго и следующих поршневых колец.

Благодаря тому, что хромирование формирует твердую поверхность, уменьшение износа самого поршневого кольца не вызывает сомнений.

Хромовое покрытие наносится двумя основными способами:

- Твердое покрытие
- Пористое покрытие хромом

При твердом покрытии хромом после хромирования поверхности поршневых колец подвергаются шлифовке, в результате которой принимают свою окончательную форму. Благодаря пористому нанесению хромового покрытия поверхность поршневых колец приобретает свойство удерживать смазку. Таким образом, кольца обеспечивают сведение к минимуму как собственного износа, так и износа поверхности гильзы, внутри которой они работают.

Nt (Нитридное покрытие)

Процедура покрытия нитридом делает более твердой всю поверхность поршневого кольца. Благодаря этому виду покрытия увеличивается устойчивость поверхности к истиранию. Это, в свою очередь, приводит к увеличению срока службы поршневого кольца. Производство нитридного покрытия, а также характеристики выбросов с использованием таких деталей являются экологически чистым. Было установлено, что с использованием нитридного покрытия поверхности с критическим уровнем производительности показывают более эффективные результаты. Уменьшает потери масла, обусловленные наиболее подверженными воздействиям точками поршневых колец. Снижает ломкость чугуновых колец. Увеличивает срок службы двигателя.



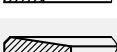
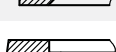


Cdc (Хромо-алмазное покрытие)

Данный вид покрытия используется для верхних поршневых колец в двигателях Euro 4 и в дизельных двигателях. Может применяться для гибких сплавов чугуна, углеродистой стали. В этом покрытии вместо керамических частиц используются алмазные частицы. Благодаря этому увеличена устойчивость к износу и улучшены показатели против истирания.

Dlc (Diamond Like Carbon) (Углеродное покрытие с алмазным напылением)

Благодаря этому покрытию уменьшается истирание и увеличивается стойкость к износу. Благодаря своим характеристикам покрытие DLC обладает экологически чистой структурой. Его химические связи сильны, оно не ломается под механическим воздействием. Его структура не кристаллическая, а аморфная. Благодаря своей структуре данный материал в высшей степени прочен. Это покрытие - более стойкое по сравнению с другими видами покрытий, с более высоким сопротивлением износу.

ТЕХНИЧЕСКИЕ ОПРЕДЕЛЕНИЯ

	D = Прямоугольное в поперечном сечении кольцо		TI-IFU = Кольцо с поперечным сечением в виде симметричной трапеции с конической рабочей поверхностью со скошенной выточкой на нижней поверхности внутреннего края
	D-IF = Прямоугольное в поперечном сечении кольцо со скошенной выточкой на верхней поверхности внутреннего края		TK-IW = Кольцо с поперечным сечением в виде симметричной трапеции с конической рабочей поверхностью с прямоугольной выточкой на верхней поверхности внутреннего края
	D-IFU = Прямоугольное в поперечном сечении кольцо со скошенной выточкой на нижней поверхности внутреннего края		TK-IWU = Кольцо с поперечным сечением в виде симметричной трапеции с конической рабочей поверхностью с прямоугольной выточкой на нижней поверхности внутреннего края
	D-IW = Прямоугольное в поперечном сечении кольцо с прямоугольной выточкой на верхней поверхности внутреннего края		N = Скребок кольцо
	D-IWU = Прямоугольное в поперечном сечении кольцо с прямоугольной выточкой на нижней поверхности внутреннего края		N-IF = Скребок кольцо со скошенной выточкой на верхней поверхности внутреннего края
	K = Кольцо с конической рабочей поверхностью		N-IFU = Скребок кольцо со скошенной выточкой на нижней поверхности внутреннего края
	K-IF = Кольцо с конической рабочей поверхностью со скошенной выточкой на верхней поверхности внутреннего края		N-IW = Скребок кольцо с прямоугольной выточкой на верхней поверхности внутреннего края
	K-IFU = Кольцо с конической рабочей поверхностью со скошенной выточкой на нижней поверхности внутреннего края		N-IWU = Скребок кольцо с прямоугольной выточкой на нижней поверхности внутреннего края
	K-IW = Кольцо с конической рабочей поверхностью с прямоугольной выточкой на верхней поверхности внутреннего края		TN = Скребок кольцо с конической рабочей поверхностью
	K-IWU = Кольцо с конической рабочей поверхностью с прямоугольной выточкой на нижней поверхности внутреннего края		TN-IF = Скребок кольцо с конической рабочей поверхностью со скошенной выточкой на верхней поверхности внутреннего края
	TT = Кольцо с поперечным сечением в виде несимметричной трапеции		TN-IFU = Скребок кольцо с конической рабочей поверхностью со скошенной выточкой на нижней поверхности внутреннего края
	TT-IF = Кольцо с поперечным сечением в виде несимметричной трапеции со скошенной выточкой на верхней поверхности внутреннего края		TN-IW = Скребок кольцо с конической рабочей поверхностью с прямоугольной выточкой на верхней поверхности внутреннего края
	TT-IFU = Кольцо с поперечным сечением в виде несимметричной трапеции со скошенной выточкой на нижней поверхности внутреннего края		TN-IWU = Скребок кольцо с конической рабочей поверхностью с прямоугольной выточкой на нижней поверхности внутреннего края
	TT-IW = Кольцо с поперечным сечением в виде несимметричной трапеции с прямоугольной выточкой на верхней поверхности внутреннего края		SC = Раздвоенное маслоъемное кольцо
	TT-IWU = Кольцо с поперечным сечением в виде несимметричной трапеции с прямоугольной выточкой на нижней поверхности внутреннего края		DC = Маслоъемное кольцо со скошенной выточкой
	T = Кольцо с поперечным сечением в виде симметричной трапеции		DB = Маслоъемное кольцо с двойной скошенной выточкой
	T-IF = Кольцо с поперечным сечением в виде симметричной трапеции со скошенной выточкой на верхней поверхности внутреннего края		ES = Раздвоенное маслоъемное кольцо с пластинчатой пружиной
	T-IFU = Кольцо с поперечным сечением в виде симметричной трапеции со скошенной выточкой на нижней поверхности внутреннего края		SY = Раздвоенное маслоъемное кольцо со спиральной пружиной
	T-IW = Кольцо с поперечным сечением в виде симметричной трапеции с прямоугольной выточкой на верхней поверхности внутреннего края		DY = Маслоъемное кольцо со спиральной пружиной со скошенной выточкой по краям
	T-IWU = Кольцо с поперечным сечением в виде симметричной трапеции с прямоугольной выточкой на нижней поверхности внутреннего края		PS = Маслоъемное кольцо со спиральной пружиной с двойной скошенной выточкой по краям
	TK = Кольцо с поперечным сечением в виде симметричной трапеции с конической рабочей поверхностью		VF = Маслоъемное кольцо с VF-пружиной и стальной лентой
	TK-IF = Кольцо с поперечным сечением в виде симметричной трапеции с конической рабочей поверхностью со скошенной выточкой на верхней поверхности внутреннего края		UB = Маслоъемное кольцо U-образного типа со стальной лентой
	SDR = Стальное маслоъемное кольцо с V-образной канавкой со спиральной пружиной		SDV = Стальное маслоъемное кольцо с V-образной канавкой со спиральной пружиной
	X = Толщина поршневого кольца (мм)		DKS = Футеровочный, конический, цилиндрические кольца контроля масла

ОБЩАЯ ИНСТРУКЦИЯ ПО УСТАНОВКЕ ПОРШНЕЙ

1- На внутренней поверхности цилиндра, в который будет устанавливаться поршень, должны присутствовать ромбовидные хонинговальные линии. Если использован готовый к установке поршень и/или если он будет устанавливаться в изношенный цилиндр, то внутренняя поверхность цилиндра должна быть проверена на предмет соответствия хонинговальных линий. Если хонинговальные линии на внутренней поверхности цилиндра частично или полностью исчезли, и образовалась отполированная до блеска поверхность, то внутренняя поверхность цилиндра должна быть отхонингована таким образом, чтобы снова появились хонинговальные линии.

2- Все поршни производятся с тем уровнем точности, чтобы в процессе установки вовнутрь цилиндра соответствующих размеров они образовывали указанное нужное рабочее пространство между поршнем и цилиндром. Следует проверить внутренние диаметры цилиндров на соответствие размерам, указанным на этикетках на коробке, и, таким образом, установить, нуждаются ли они в повторной обработке. Если необходима обработка внутреннего диаметра изношенного цилиндра до верхнего размера, то рекомендуется обрабатывать номинальный диаметр верхнего размера в пределах допуска 0.000-0.025 мм.

3- Поршневые пальцы из готовых к установке поршней должны быть извлечены с помощью соответствующих методов таким образом, чтобы не повредить поршень и поршневой палец. Поршневые пальцы скомпонованы с поршнями и установлены в них таким образом, чтобы обеспечить их совпадение по размерам, поэтому не должны заменяться произвольным образом.

4- При установке на поршень поршневых колец используйте соответствующий инструмент, чтобы не деформировать поршневые кольца и не повредить поршень. Во время установки поршня в цилиндр используйте соответствующий зажим для сжатия поршневых колец или конический монтажный кожух. После осуществления процедуры сжатия поршневых колец должным образом следует аккуратно, при помощи силы пальцев установить поршень внутрь цилиндра, при этом следует избегать применения чрезмерной силы или ударов.

5- Перед установкой поршня в цилиндр очень важно провести тщательную очистку поршня, и в особенности очистку и смазку отверстия поршневого пальца. Перед установкой следует тщательно смазать поршень и цилиндр, чтобы они не получили повреждений до того, как будет произведена смазка внутренней поверхности цилиндра во время первого запуска.

6- Если в верхней части поршня имеется маркировка, содержащая обозначение, указывающее направление установки, то при установке следует следовать данным указаниям и производить установку соответствующим образом.

7- Проявите предельную осторожность, чтобы избежать повреждения поршня, поршневого пальца и поршневых колец.

8- В соответствии с общепринятыми нормами поршни производятся таким образом, чтобы соответствовать другим деталям, вместе с которыми они будут использоваться. Поэтому не подвергайте их последующей обработке.

9- Не следует повторно использовать пальцы и стопорные кольца, всегда используйте новые пальцы и стопорные кольца.

10- Проверка используемого в процессе установки поршневого штока на предмет линейности очень важна для того, чтобы предотвратить очень серьезные проблемы, которые могут возникнуть в связи с этим. Линейность поршневого штока следует проверить еще раз непосредственно перед установкой при помощи соответствующих инструментов.

ПРИМЕЧАНИЕ: Следует следовать указаниям, изложенным в этой инструкции. Производитель не несет ответственности за любые проблемы, связанные с неправильной установкой, при которой не были соблюдены требования инструкции.

ТЕХНИЧЕСКИЕ ОПРЕДЕЛЕНИЯ

8- МАРКИРОВКА И КОДЫ ПОРШНЕЙ



9- СПРАВОЧНЫЙ НОМЕР ПОРШНЯ

ПРИМЕР

Справочный номер поршня

11-01513-000

- 000 = STD / поршень + кольцо
- 001 = Высота компрессии (хода) -0,20 мм (коротк.)
- 002 = Высота компрессии (хода) -0,40 мм (коротк.)
- 003 = Высота компрессии (хода) -0,60 мм (коротк.)
- 050 = +0,50 мм верхний размер / поршень + кольцо

СТАРЫЙ СПРАВОЧНЫЙ НОМЕР	НОВЫЙ СПРАВОЧНЫЙ НОМЕР
1513 000	11-01513-000

10- СПРАВОЧНЫЙ НОМЕР ПОРШЕНЬ + КОЛЬЦО

ПРИМЕР

Справочный номер поршень + кольцо

31-03513-000

- 000 = STD / поршень + кольцо
- 050 = +0,50 мм верхний размер / поршень + кольцо

СТАРЫЙ СПРАВОЧНЫЙ НОМЕР	НОВЫЙ СПРАВОЧНЫЙ НОМЕР
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

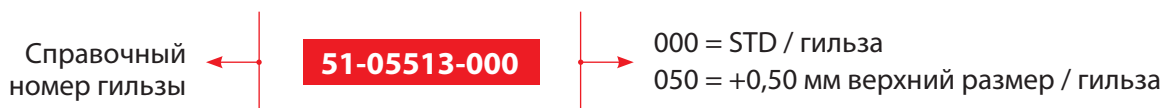
Разница между поршневыми кольцами и покрытиями

38-

39-

11 - СПРАВОЧНЫЕ ОПРЕДЕЛЕНИЯ ДЛЯ ГИЛЬЗ ЦИЛИНДРА

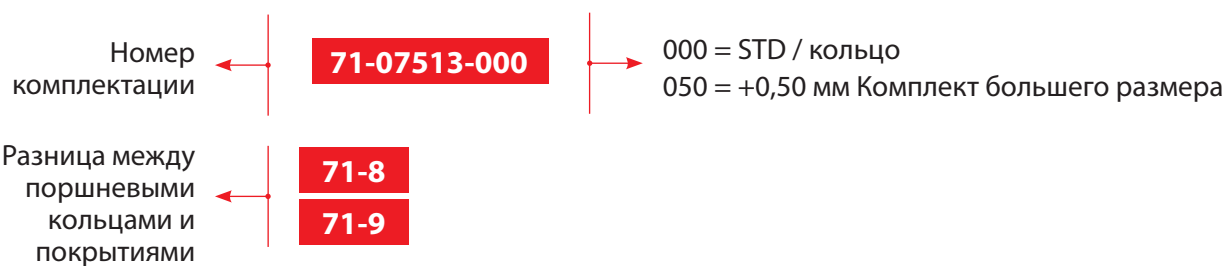
ПРИМЕР



СТАРЫЙ СПРАВОЧНЫЙ НОМЕР	НОВЫЙ СПРАВОЧНЫЙ НОМЕР
5513 000	51-05513-000

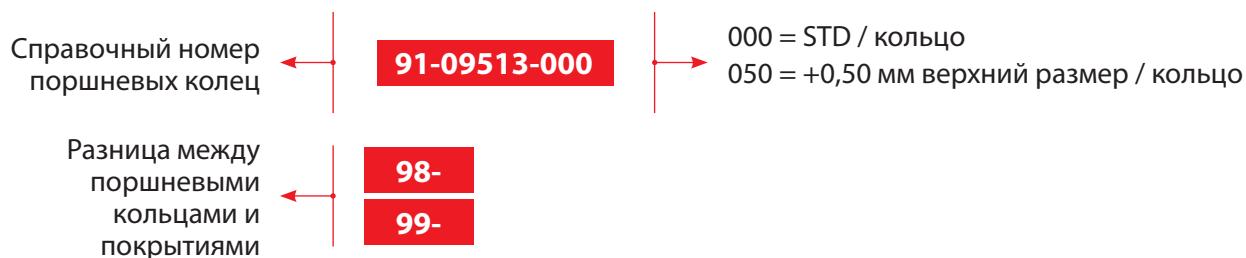
12 - СПРАВОЧНЫЕ ОПРЕДЕЛЕНИЯ ДЛЯ КОМПЛЕКТА, НАБОРА

Комплект: поршень, штырь, кольцо, футеровка



СТАРЫЙ СПРАВОЧНЫЙ НОМЕР	НОВЫЙ СПРАВОЧНЫЙ НОМЕР
7513 000	71-07513-000
7513 000-08	71-87513-000
7513 000-09	71-97513-000

13- СПРАВОЧНЫЙ НОМЕР ПОРШНЕВЫЕ КОЛЬЦА



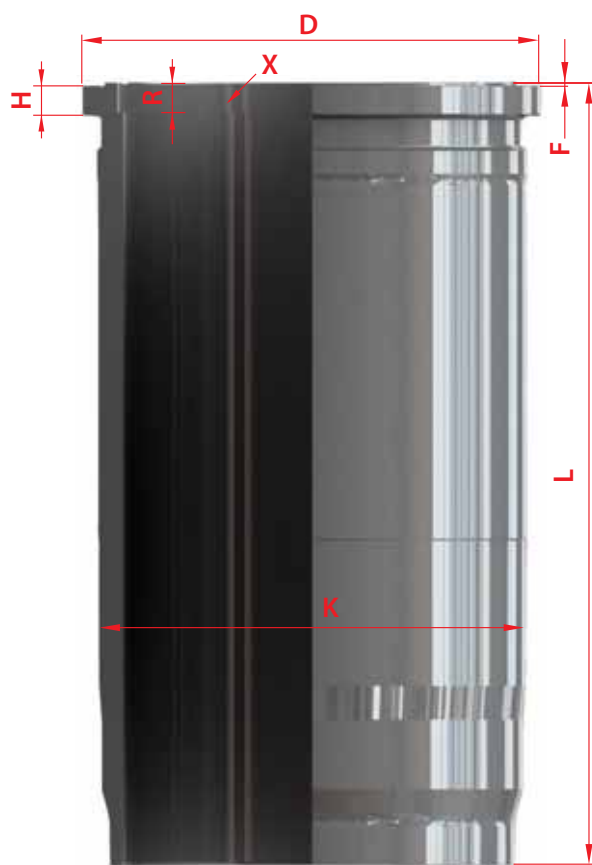
СТАРЫЙ СПРАВОЧНЫЙ НОМЕР	НОВЫЙ СПРАВОЧНЫЙ НОМЕР
9513 000	91-09513-000
9513 000-08	98-09513-000
9513 000-09	99-09513-000

14 - "СПРАВОЧНЫЙ НОМЕР УПЛОТНИТЕЛЬНОЕ КОЛЬЦО"



ТЕХНИЧЕСКИЕ ОПРЕДЕЛЕНИЯ

ТЕХНИЧЕСКОЕ ОПИСАНИЕ ДЛЯ ГИЛЬЗЫ ЦИЛИНДРА



- K = Внешний диаметр
- L = Общая высота
- H = Высота фланца
- F = Глубина уплотнителя
- D = Диаметр фланца
- X = Высота кольца в месте установки
- R = Высота в месте установки

Описание гильз цилиндров в соответствии с TSE 482:

Гильзы цилиндров в двигателях внутреннего сгорания - это литые машинные элементы цилиндрической формы, устанавливаемые в блок цилиндров, внутри которых движется поршень и сгорает топливо. Гильзы цилиндров двигателя можно рассматривать в качестве двух классов.

Мокрые гильзы цилиндров:

Гильзы, которые снаружи охлаждаются жидкостью внутри блока цилиндров, в котором они установлены.

Делятся на три основные группы:

a- С фланцем и каналами: Гильзы, которые садятся в блок цилиндров сверху на фланец, а в их нижней части имеются уплотнительные каналы для обеспечения циркуляции охлаждающей двигатель жидкости (Рисунок 1).

b- С фланцем без каналов: Гильзы, которые садятся в блок цилиндров сверху на фланец, а в их нижней части отсутствуют уплотнительные каналы. Герметичные уплотнители имеются в каналах в блоке (Рисунок 2).

c- С двойным фланцем: Гильзы двигателя, которые устанавливаются в блок цилиндров посредством верхнего и нижнего фланца таким образом, чтобы не пропускать охлаждающую двигатель жидкость (Рисунок 3).

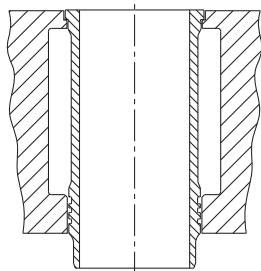


Рисунок 1

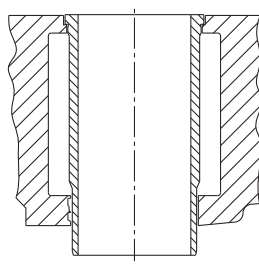


Рисунок 2

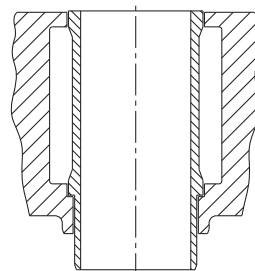


Рисунок 3

Сухие гильзы цилиндров:

Гильзы, которые не соприкасаются непосредственно с охлаждающей жидкостью внутри блока цилиндров, в котором они установлены.

С точки зрения формы могут быть разделены на два основных класса:

а- С фланцем (Рисунок 4)

б- Без фланца - прямые (Рисунок 5)

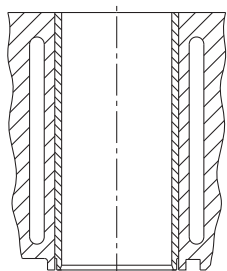


Рисунок 4

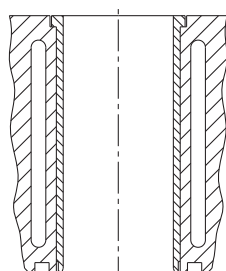


Рисунок 5

МОМЕНТЫ, НА КОТОРЫЕ СЛЕДУЕТ ОБРАТИТЬ ВНИМАНИЕ ПРИ УСТАНОВКЕ ГИЛЬЗ ЦИЛИНДРОВ

ИНСТРУКЦИЯ ПО УСТАНОВКЕ СУХИХ ГИЛЬЗ ЦИЛИНДРОВ :

Сухие гильзы цилиндров выпускаются с фланцем и без фланца (Рисунок 6). Сдвиги в осевом направлении, которые можно часто наблюдать в случае установки поршня в гильзы цилиндров без фланца, которые эксплуатируются в тяжелых условиях, не встречаются при использовании гильз с фланцем. Это является преимуществом фланца.

Перед запрессовкой гильз в тело цилиндров сами цилиндры должны обязательно быть отшлифованы в соответствии с номинальными значениями, указанными в перечне ниже для внешнего диаметра (А), либо подвергнуты процедуре тонкой расточки и хонингования.

Особое внимание следует уделить нижеуказанным допускам (Рисунок 7). В противном случае если напряжение смещения будет слишком низким, то не будет здоровой теплопередачи, а если напряжение смещения будет слишком высоким, то возникнет опасность того, что гильзы с очень тонкими стенками окажутся причиной несоответствия цилиндру, что может привести к поломкам в процессе эксплуатации. Сухие гильзы, внешний диаметр которых обработан в окончательный размер, поставляются расточенными таким образом, чтобы их внутренний диаметр был на 0.5-0.75 мм меньше.

В процессе установки методом запрессовки сухой гильзы с фланцем в блок цилиндров для предотвращения обрыва фланца необходимо, чтобы отверстие для фланца в блоке было больше внешнего диаметра фланца (С).

ТЕХНИЧЕСКИЕ ОПРЕДЕЛЕНИЯ

При запрессовке сухих гильз с фланцем следует обеспечить очень хорошую посадку нижней поверхности фланца на поверхность посадочного гнезда блока.

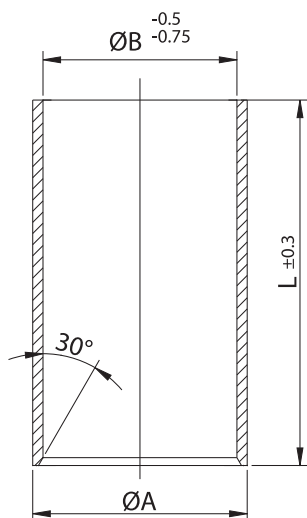


Рисунок 6

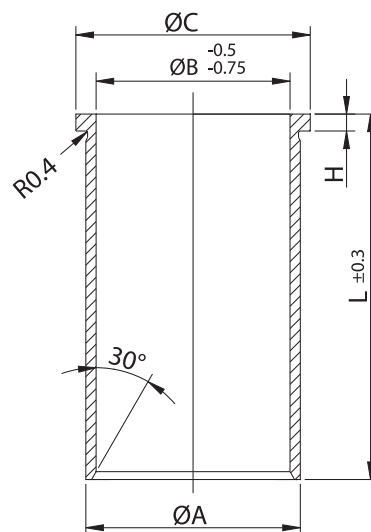


Рисунок 7

Как известно, гильзы в нижней части фланца имеют радиус около 0,4 мм. Для того чтобы в процессе установки гильзы в блок предотвратить посадку этого радиуса, в блоке в зоне перехода, куда встанет фланец, делается фаска в 1.0 мм. В противном случае обрыв фланца будет неизбежен.

Перед установкой новых гильз цилиндры в блоке двигателя должны быть тщательно очищены, а их размеры проверены с особой точностью. Овальность или конусность не должна превышать 0,025 мм. В процессе хонингования нужно стремиться к получению глянцевой поверхности, также следует проверить значения шероховатости поверхности в соответствии с типом двигателя. Излишне блестящие и гладкие поверхности станут причиной недостаточности смазки, поэтому следует избегать этого.

Для запрессовки сухих гильз цилиндров достаточно давления 3000-5000 кг. Если в процессе установки в качестве смазывающего материала будет использована твердая смазка, то впоследствии из-за высоких температур такая смазка будет коксоваться, что затруднит теплообмен. После установки, выполняемой при помощи прессы, неровности с уплотнительной поверхности блока цилиндров должны быть устранены шлифованием поверхности.

При необходимости обработки уплотнительной поверхности блока цилиндров поверхность посадки фланца в гнезде должна быть обработана в соответствии с этим на большую глубину. Кроме того, имеются гильзы цилиндров, внешние диаметры которых выполнены в окончательный размер, а внутренние диаметры - под тонкую расточку.

Такие гильзы, имеющие очень небольшой пай для хонингования, запрессовываются в цилиндр и хонингуются уже в запрессованном виде. Номинальный размерный допуск внутреннего диаметра цилиндра имеет диапазон от +0 до +0.015 мм. А номинальный размерный допуск наружного диаметра гильзы цилиндра имеет диапазон от +0.012 до +0.024 мм.

Группы наружных диаметров гильз			
	50 - 80	80 - 120	120 - 180
QA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
QC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

Диаметры отверстий блока (мм)			
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
QC ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25

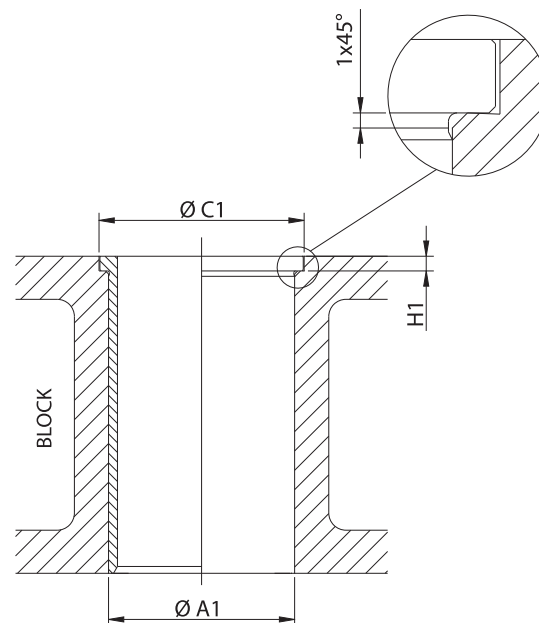


Рисунок 9

ИНСТРУКЦИЯ ПО УСТАНОВКЕ МОКРЫХ ГИЛЬЗ ЦИЛИНДРОВ:

Гильзы цилиндров двигателя YENMAK изготавливаются методом центробежного литья, что позволяет получить структурные характеристики, устойчивые к износу и растяжению. Следует соблюдать предельную осторожность при извлечении старых гильз, чтобы избежать повреждения посадочной поверхности цилиндра.

Контактные поверхности цилиндров в блоке двигателя должны быть тщательно очищены от отложений, грязи и прочих загрязняющих веществ. Проводя очистку, не следует использовать такие инструменты, как скребки, стамески, которые могут привести к появлению царапин. Наиболее подходящий для данной процедуры инструмент - щетка со стальной щетиной. Для извлечения гильз, прикипевших внутри цилиндра за счет слоев ржавчины и отложений, следует наставить на них клин и ударять по нему молотком, если, несмотря на это, извлечь гильзу не удастся, то следует применить гидравлический пресс. Производя очистку, крайнюю осторожность следует проявлять по отношению к посадочным поверхностям, чтобы не повредить их.

Посадочная поверхность нижней части фланца гильзы должна быть параллельна поверхности блока. Как показано на Рисунке 10, не должно быть различий с точки зрения гладкости и ровности. Кроме того, следует проверить, чтобы ось цилиндра была перпендикулярна уплотнительной поверхности блока цилиндров (Рисунок 11). Еще один момент, на который всегда следует обращать внимание, - посадочные поверхности цилиндра не должны быть продавлены либо повреждены (Рисунок 12).

Для того чтобы предотвратить посадку радиуса (d) нижней поверхности фланца гильзы в угол посадочной поверхности для фланца (a) внутри цилиндра, в точке, где он проходит диаметр цилиндра (c), ему следует дать радиус 45° 0.5-1.0 мм.

Для предотвращения поломки сила герметизации и противодействующая сила должны быть взаимно перпендикулярны.

ТЕХНИЧЕСКИЕ ОПРЕДЕЛЕНИЯ

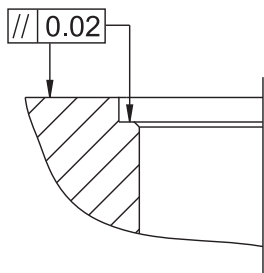


Рисунок 10

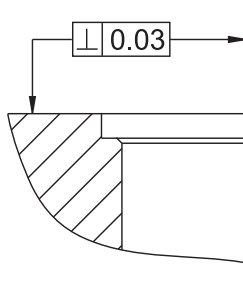


Рисунок 11

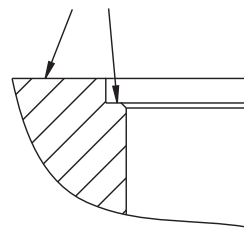


Рисунок 12

Диаметр отверстия в уплотнителе (b) и наружный диаметр гильзы (c) должны быть одинаковыми. Для обеспечения абсолютной герметичности в камере сгорания следует использовать уплотнители с металлической оправой. Диаметр отверстия в уплотнителе (b) и наружный диаметр гильзы (c) должны быть одинаковыми. Для обеспечения абсолютной герметичности в камере сгорания следует использовать уплотнители с металлической оправой.

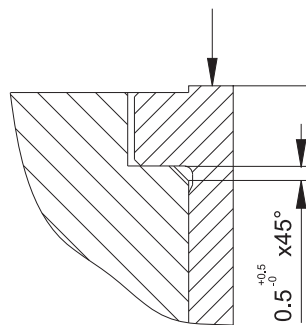


Рисунок 14

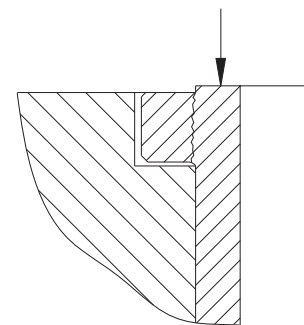


Рисунок 15

Чтобы определить, легко ли гильза помещается в цилиндр и не является ли цилиндр блока двигателя слишком большим или слишком широким, перед установкой следует поместить гильзы в цилиндр без использования кольца. Кроме того, чтобы определить, является ли положение фланца гильзы по отношению к поверхности блока правильным, рекомендуется перед началом установки перевернуть гильзы вверх дном и поместить их на посадочную поверхность фланца со стороны фланца. Как известно, фланец находится в неохлаждаемой зоне двигателя и постоянно расширяется.

Здесь следует обратить внимание на то, чтобы остался зазор в 0.3-0.5 мм.

В данной инструкции по установке при каждом удобном случае настойчиво подчеркивается, что процедура установки и демонтажа гильз должна производиться в соответствии с целью операции. То есть дефекты, которые возникнут при использовании в процессе установки молотка и других тяжелых инструментов, что само по себе неправильно, приведут к негативным результатам.

Используемые в процессе установки резиновые кольца должны обязательно быть качественными, устойчивыми к появлению пузырей, износостойкими, маслостойкими и термостойкими. В противном случае попадание жидкости в картер приведет к застопориванию гильзы и ее деформации. На резиновые кольца каждый раз наносится смазочная паста, после чего они устанавливаются в гнезда.

Резиновые кольца следует предпочесть только тех качественных марок, которые используются производителями двигателей. Основной причиной для такого предпочтения является то, что резиновые кольца должны быть устойчивыми к появлению пузырей, износостойкими, маслостойкими и термостойкими.

Деформация поршня, которая может привести к обрыву гильзы, является результатом использования несоответствующих резиновых колец. Места посадки резиновых колец никогда не должны подвергаться действиям, в результате которых возникают царапины.

После установки гильз на места вручную будет не лишним еще раз проверить размер цилиндра. Подобная проверка должна быть проведена, в первую очередь, в местах возможной овализации и деформации в зонах установки резиновых колец.

После окончательной установки гильз следует наполнить блок цилиндров водой и приложить давление, таким образом, проведя проверку на герметичность.




СВЕДЕНИЯ О МАРКИРОВКЕ ГИЛЬЗ



УПЛОТНИТЕЛЬНОЕ КОЛЬЦО

Уплотнительное кольцо	
EPDM	Каучук EPD
NBR	Каучук NBR
FPM / VI	Витон(FPM / FKM)
Cu	Медь
T	Томпак
ST	Сталь
SC / MVQ	Силикон (VMQ)
Shim / SM	Мягкий металл



93,000		1	3	4	5	6	7
4JB1	2	D 00 2005 > 00 2005 4 Cyl 2771cc 57kW				(78ps)	
 <p>11-02385-000 8 CH 51,850 VD1 0,550 10 B- 19,500 BØ 43,900 12 TL 91,850 13</p> <p>15 31,00x76,00</p> <p>Isuzu ve Opel ile Ortak Motor 27</p>	14	<p>AP</p> <p>91-09389-000</p> <p>1 2,000 P 16</p> <p>2 2,000 P 16</p> <p>3 4,000 CrP 17</p>	1. Conta ile 1,50mm (+0,71/+0,77) 2. Conta ile 1,55mm (+0,77/+0,81) 3. Conta ile 1,60mm (+0,81/+0,87)	Ø 93,000 18	31-04385-000 19		
		<p>99-09389-000</p> <p>1 2,000 FeP 16</p> <p>2 2,000 FeP 16</p> <p>3 4,000 TeF 16</p>			39-04385-000		
 <p>K=95,00 22 L=181,00 H=0,90 25 D=101,00 23</p>	DF-CR-ST 26			51-35721-000 20	71-08385-000 71-98385-000 21		
 <p>K=120,00 22 L=229,00 H+F=9,00+1,10 25 D=128,50 23</p>	WF 26		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00 28	51-06067-000 52-06067-000 20	71-07152-000 72-07152-000 21		

- | | |
|---|--|
| 1 - Диаметр поршня | 16 - Характеристики кольца |
| 2 - Код двигателя | 17 - Выступ головки поршня |
| 3 - Сведения о топливе | 18 - Диаметр цилиндра |
| 4 - Годы выпуска модели | 19 - Код поршень + кольцо |
| 5 - Количество цилиндров | 20 - Код гильзы |
| 6 - Объем цилиндра | 21 - Код комплекта |
| 7 - Мощность двигателя | 22 - Наружный диаметр цилиндра |
| 8 - Поршневой Код | 23 - Диаметр фланцы гильзы |
| 9 - CH: Ход | 24 - Полная длина гильзы |
| 10 - VD1/VD2: Глубина клапана | 25 - Толщина фланца |
| 11 - В- : Глубина камеры сгорания
В+ : Првышение днища | 26 - Тип и характеристики гильзы |
| 12 - ВØ: Диаметр ячейки | *WS : Влажные лайнер полуфабриката |
| 13 - TL: Полная длина | *WF : Влажные подкладка полная отделка |
| 14 - Характеристики поршня | *DS : Сухой лайнер полуфабриката |
| *DAP: Двойной алфиновый поршень | *DF : Сухая подкладка полная отделка |
| *AP: Алфиновый поршень | *AF : Воздушное охлаждение полной отделкой |
| *YS: Поршень с масляным охлаждением | *PH : Фосфат |
| *CP: Поршень из листовой стали | *CR : Хром |
| *HA: С твердым анодированным покрытием | *HR : Закаленный |
| *PDB: Отверстие поршневого | *NT : нитрит |
| 15 - Диаметр - длина - характеристики пальца пальца с втулкой | *HT : Термическая обработка |
| | *STEEL: Стали |
| | 27 - Общий двигатель |
| | 28 - Уплотнительное Кольцо Код |

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قطع غيار المحركات

تأسست شركة ينماك عام 1965 كورشة صغيرة من قبل عائلة قهوجي اوغلو في مدينة قونيا ، ومنذ ذلك التاريخ تقوم الشركة بتجديد وتطوير نفسها بشكل مستمر حتى غدت من اكبر المجهزين لقطع المحركات على الصعيد المحلي والعالمي . تقوم الشركة بانتاج اطعم الكيئات والبساتم وبنزاتها والشانير وحامل الحلقات الفولاذية للبساتم، كما تقوم بتوريد وتسويق سبائك المحركات والصبابات والكاسكيتات وتقوم بتصدير كل هذه القطع الى اكثر من 80 دولة في القارات الخمسة ،

انتم عملائنا الكرام شركائنا على المدى الطويل نوفر لكم جميع قطع اجزاء المحرك ضمن باقة واحدة ومن مصدر واحد فضلا على المبيعات وخدمات ما بعد البيع بأسعار معقولة .

ينماك على دراية بان العامل البشري هو العنصر الالهم ضمن جميع العناصر لذا تعطي الاهمية القصوى للعلاقات مع زبائننا .

ان الشركة حائزة على شهادة الجودة INMETRO ISO 9001, ISO/TS 16949, TS EN ISO 14001

الشركة مستمره في عملها من خلال مصنعين ومركز عام ومركز لوجستي على مساحة 50.000 الف متر مربع في المنطقة الصناعية الاولى والثانية والثالثة في مدينة قونيا ، كما تقوم الشركة ببيع وتسويق منتوجاتها من خلال مكتب التصدير والتوزيع المحلي والواقع في مدينة اسطنبول .



ولو جستي & مركز العام



مصنع البساتم وبنزاتها



مصنع قمصان سلندر

YENMAK

قطع غيار المحركات



منذ عام 2003 اخذت بضائع ينماك مكانتها في
الاسواق داخل علبتها ادناه .
ستجد التفاصيل المتعلقة بالعبه ادناه :



بفضل ختم العبئه كن اول من
يحصّل على المنتج .



رقم التتبع

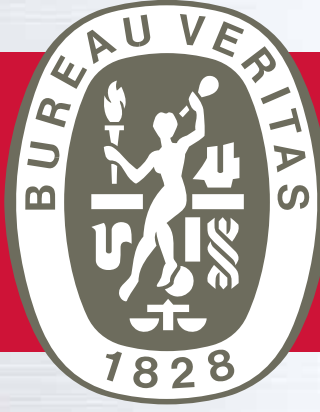


من اجل ضمان سلامة المنتج
وضعت على العلب صور
ذات الابعاد الثلاثية .



من اجل ضمان سلامة
المنتج وضع مصلق الامان
في الفوهة السفلية للعبه .

BUREAU VERITAS Certification



بيستون الفولاذ ذو قطعتين



بساتم الفولاذ ذات القطعتين يتكون من راس بيستون فولاذ صلب ومرتبط بشكل حر بواسطة البنزات مع هيكل من الالومنيوم ، نظرا لمقاومته العالية ونسبة التاكل المنخفض صمم هذا البيستون لتقديم افضل الاداء في محركات الديزل الثقيلة ذات الانبعاثات المنخفضة

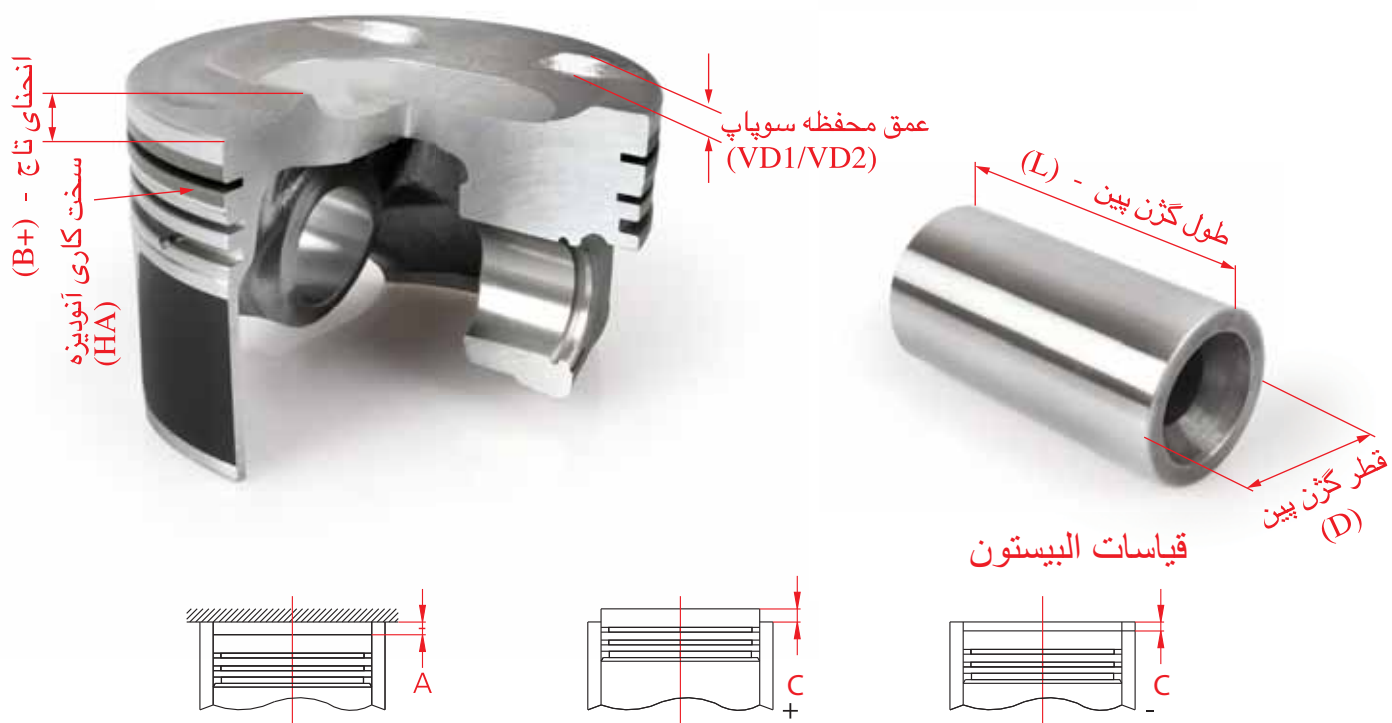
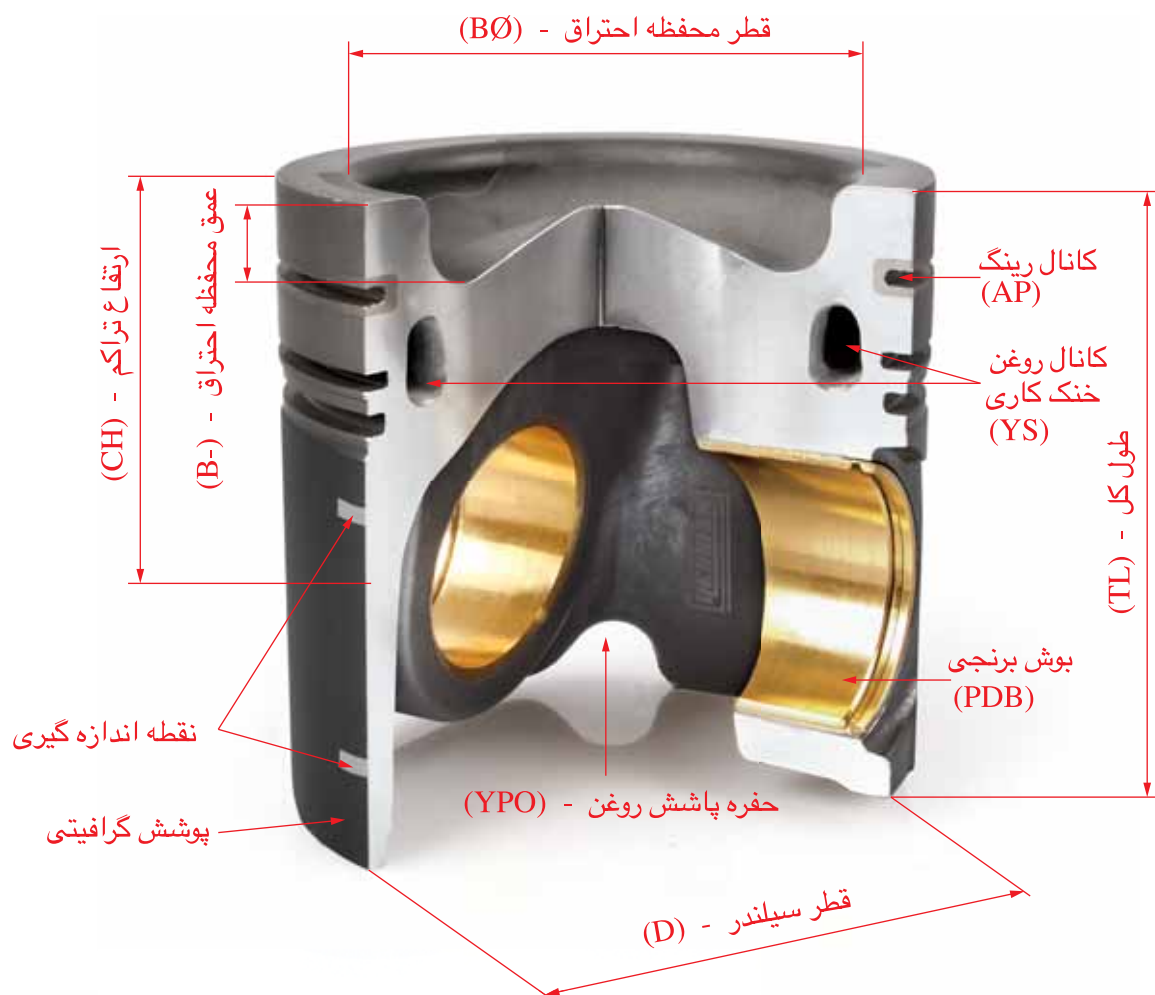
بيستون الفولاذ ذو قطعتين :

- الجيل الجديد من محركات مع نسب ضغط عالية وغرفة الاحتراق الحديثة.
- محركات الديزل ذات الخدمات الثقيلة .
- في المحركات ذات استعمال الوقود المتعدد.

مزايا بساتم الفولاذ ذات قطعتين :

- بساتم الفولاذ ذات قطعتين مسافة تماسها مع قمصان سلندر اقل قياسا من بساتم الالومنيوم وهذا يؤدي ايجابا بتقليل الفقدان المنتجة نتيجة قوة الاحتكاك .
- بيستون الفولاذ ذو قطعتين قياسا الى بساتم الالومنيوم :
- بسبب ارتفاع المقاومة للاحمال الحرارية العالية يقلل من خطر التشوهات التي تطرا على قمصان سلندر وبامكانه العمل في فراغات اقل وهذا يزيد من قوة مقاومة تسريبات الشناير .
- بيستون الومنيوم يستطيع مقاومة ضغط 100 بار بيد ان بيستون الفولاذ ذو قطعتين يستطيع مقاومة ضغط يصل الى 250 بار .
- يوفر قوة ضغط اعلى في المحركات ويقلل 5-2% من نسبة ثان اوكسيد الكربون في العادم كما يوفر من مقاومة التماس التي تحصل في بساتم الالومنيوم التي تسعمل حلقات الفولاذ .
- في بساتم ذات التبريد الذاتي بامكان قنوات التبريد ان تصل الى مسافة اقرب من سطح البيستون وهذا يؤدي ايجابا الى زيادة كفاءة عملية التبريد .
- غرف احتراق بساتم ذات القطعتين مقاومة اكثر للتشوهات التي تحصل نتيجة الاحتراق والانفجار قياسا بغرف الاحتراق في بساتم الالومنيوم التقليدية .
- بساتم الفولاذ ذات القطعتين تزيد من عمر المحرك وهذا يؤدي الى تقليل من تكلفة تجديد المحركات .
- النزويد المفرط للوقود والخلل في نظام حقن الوقود يسبب ذوبان البيستون او تثقيبته بيد ان هذه المشاكل لاتحصل في بساتم الفولاذ ذات قطعتين .

المصطلحات الفنية



A = القياس الى راس السلندر
C = القياس من سطح المحرك الى راس البیستون

عند تركيبك للبساتم المستعملة يجب تنظيف مجرى الشنبر و ثقب التزيت من مخلفات الكربون والشوائب ، كما يجب تنظيف جميع الكربونات المتعلقة بالبيستون ماعدا طبقات الكربون الموجودة على راس البيستون ، يجب ان يكون مجرى الشنابر نظيفة جدا، يجب مراعاة بعدم ايداء التجاويف والزوايا للبيستون عند عملية التنظيف والا فان اي خدش بسيط سوف يكون سبب للتشققات المستقبلية . قياسات ينامك متوافقة مع الشنابر الاصلية لذا لا داعي باجراء اي تغيير في قياسات البيستون يمكن استخدام شنابر البساتم ماركة ينامك حسب نسب التاكل في السلندر على النحو المبين ادناه :

في محركات البنزين القطر في نطاق 0,1 ملم

في محركات الديزل قطر في نطاق 0,15 ملم

حتى لو كانت قياسات البساتم المستعملة ضمن نسبة التاكل المسموح بها اعلاه الا اننا نوصي بتغيير البساتم التي حصلت فيها تشويهاات في مجرى الشنابر ، لان البساتم التي حصلت فيها التشوهات في الاخاديد المتوازية في مجرى الشنابر سوف تكون مضللة ولا يمكن تشخيص مثل تلك العيوب بالعين المجردة لذا ان الشنابر سوف لن تعمل بشكل سليم في مثل تلك الحالات وسوف يؤدي الى مشاكل صرف الزيت والتبخير . حركة الشنابر العلوي والسفلي داخل قنوات البساتم قد تتعرض الى اضرار وهذا يعوق دون عمل المحرك بشكل سليم .

تركيب الشنابر بشكل متوالي بعدة تركيب خاصة ثم شد الشنابر بواسطة عدة تركيب الشنبر وتنزيلها داخل القميص او السندر بدفعها بخشبة المطرقة ويجوز استعمال الطرق الخفيف دون اللجوء الى القوة المفرطة وفي هذا الاثناء قد تخرج الشنابر الرفيعة من مجراها لذا يجب الاستمرار في شد الشنابر بعدتها الى ان تتم عملية التنزيل بسلام وينبغي عدم استعمال الشنابر المغطى بالكروم عند تركيبها في قمصان المغطى بالكروم داخليا .

TOP او YEN

هذه الكلمة يجب ان تقع الى الاعلى محاذة غرفة الاحتراق عند تركيبها على البساتم وفي حالة عدم وجود مثل تلك الكتابة انذاك بالامكان تركيب الشنبر كيفما يشاء

طلاء الشنابر والمعالجة السطحية

Cr = طلاء الكربون
Mo = طلاء الموليبدن
P = طلاء الفوسفات
Fe = طلاء فيروكسيت
Cu = طلاء النحاس
Nt = طلاء نترت

Sn = طلاء القصدير
Ck = السيراميك كروم
Pvd = تراكم البخار المادية
Cdc = كروم المطلبي بالماس
Dlc = طلاء الماس طلاء الكربون
Tef = پوشش تفلونى

طلاء الشنابر والمعالجة السطحية

CK طلاء السيراميك كروم

طلاء الكروم الخزفية

الكروم الطلاءات الخزفية

نوع من الطلاء يتكون من تركيب هيكلية الشبكة التي تحصل نتيجة اكسدة عناصر الكربون مع الالومنيوم . هذا النوع من الطلاء يستعمل عادة في طلاء قنوات الشنبر الاولى في بساتم محركات الديزل . وبسبب الاختلاف في اسلوب التحليل الكهربائي بفضل هذا الطلاء فان الشنبر يكسب الجودة والاداء العالي .

مميزات الطلاء الخزفية من الطلاء بالكروم

- المقاومة الاعلى للتآكل

- نقطة انصهار أعلى اكثر

- الصلابة وكثافة التصدع اعلى

بسبب هذا المزاي يكون عمر المحرك الذي يستعمل هذا النوع من الطلاء اطول، كما يكون نسبة الغازات المنبعثة من العادم اقل .

Pvd ترسبات البخار المادية

هي طريقة انفصال التراكمي من خلال المرحلة التفاعلية للبخار على السطوح القاسية للشنابر . وتحصل على هذا عن طريق اسلوب تبخير و تاين المعدن بطريقة قصف الايونات والتحليل الكهربائي

وتحرير أيونات المعادن على سطح حقن عنصر متقدم. نتيجة لذلك سوف تتفاعل ذرات المعدن مع الغازات التفاعلية والنترات، كربيد وأكسيد. وشكلت رد فعل طلاء رقيقة على سطح العامل في الشنابر. طلاء بالسيراميك يعطي مقاومة عالية ضد البلى والتمزق.

Mo طلاء الموليبدن

لمنع تآكل سطح الشنبر يطلى بمادة الموليبدن لتفادي من اثار الاحتراق يحشى الوجه العامل للشنبر بهذه المادة او يطلى الشنبر بالكامل بالموليبدن وبالإمكان الحصول مثل هذا الطلاء عن طريق الرش باللهيب او عن طريق التاين الكهربائي . (2620 C⁰) نقطة انصهار العليا للموليبدن وبفضل النتوءات الموجودة على مادة الموليبدن حيث انها تساعد على بقاء سطح الشنبر مزيته وهذا يساعد ايجابا بزيادة المقاومة و من عمر الشنبر والعمل بانزلاقية جيدة .

Cr طلاء الكروم

الطلاء بالكروم القاسي هي عملية شائعة من اجل زيادة متانة الشنبر ، والغاية منها تقليل البلى وزيادة من عمر اداء قميص السنبر ، ويتم ذلك بوساطة طلاء الجدار الخارجي للشنابر حيث هذه العملية تقلل من التاكل في الجدار الداخلي للقمصان وبسبب القساوة التي تعطي الكروم لسطح الشنبر تجعل من الشنبر ان تحافظ على متانتها وقوتها امام التاكل والبلى ان الطرق الحديثة تميل الى ليس طلاء الشنبر العلوي بالكروم فحسب بل تتعدى الى طلاء جميع الشنابر بهذه المادة المقاومة يتم تطبيق طلاء الكروم بطريقتين الأولى:

- صلد

- مطلي المسامية بالكروم

في عملية الطلاء بالكروم الصلد يتم طلاء سطوح الشنابر بالكروم ثم تجري عملية التخليج لاعطاء الشكل النهائي للشنابر وبما ان السطوح بعد التخليج يكون ذو مسامات وهذا يؤدي الى الاحتفاظ بالزيت عند التشغيل وبهذا يكون يحتفظ على نفسه اولا ويحافظ على جدار القمصان من التردى .

Nt طلاء نترت

يتم باعطاء الصلادة على جميع سطوح الشنابر بواسطة الطلاء بالنترت . وبهذه الطريقة تتم زيادة من العمر الافتراضي للشنابر وبخصوصية هذا الطلاء يقلل من الانبعاثات في العادم ويكون صديقا للبيئة ، كما يزيد من فعالية الاداء الحرجة و يقوم بتقليل من فقدان الزيت في المناطق الحساسة للشنابر ومن الهشاشات المادية التي تطرا على حلقات الشنابر وهذا يؤدي ايجابا الى زيادة من عمر المحرك

Cdc (كروم المغلفة بالاماس)

هذا النوع من الطلاء يستعمل في طلاء الشنبر العلوي لمحركات ايرو 4 . بالامكان تطبيق هذا العملية على الحديد المرن والزهر والفولاذ الكربوني . قطع الاماس استعمل بدل قطع السراميك وبهذا زادت من مقاومة التاكل واثرت ايجابا بالاداء ضد الاحتكاك

Dlc طلاء الماس طلاء كاربون

بهذه الطريقة يقلل من الاحتكاك ويزيد من مقاومة التاكل كما انها صديق للبيئة اوامر الكيمائية متينة، لا ينكسر تحت الضغوطات ، انها ذو هيكل غير بلورية لذا بدون شك انها مادة قوية جدا وقياسا الى المواد الاخرى انها اكثر مقاوما كما انها تقلل من قوة الاحتكاك.

المصطلحات الفنية

	D = شنبر قائم		TI-IFU = شنبر مخروطي ثنائية الانحراف السطح السفلي من الحافة الداخلية مشطوفة
	D-IF = شنبر قائم السطح العلوي من الحافة الداخلية مشطوفة		TK-IW = شنبر السطح العلوي من الحافة الداخلية كلا الطرفين منحرف تدريجي
	D-IFU = شنبر قائم السطح السفلي من الحافة الداخلية مشطوفة		TK-IWU = شنبر السطح السفلي من الحافة الداخلية كلا الطرفين منحرف تدريجي
	D-IW = شنبر السطح العلوي من الحافة الداخلية قائم تدريجي		N = شنبر مكشوط الرأس
	D-IWU = شنبر السطح السفلي من الحافة الداخلية قائم تدريجي		N-IF = شنبر مكشوط الرأس، السطح العلوي من الحافة الداخلية مشطوفة
	K = شنبر مخروطي		N-IFU = شنبر مكشوط الرأس ، السطح السفلي من الحافة الداخلية مشطوفة
	K-IF = شنبر مخروطي السطح العلوي من الحافة الداخلية مشطوفة		N-IW = شنبر السطح العلوي من الحافة الداخلية مكشوط الرأس تدريجي
	K-IFU = شنبر مخروطي السطح السفلي من الحافة الداخلية مشطوفة		N-IWU = شنبر السطح السفلي من الحافة الداخلية مكشوط الرأس تدريجي
	K-IW = شنبر السطح العلوي من الحافة الداخلية مخروط تدريجي		TN = شنبر مخروطي مكشوط الرأس
	K-IWU = شنبر السطح العلوي من الحافة السفلية مخروط تدريجي		TN-IF = شنبر مكشوط الرأس مخروطي ، السطح العلوي من الحافة الداخلية مشطوفة
	TT = شنبر احادية الانحراف		TN-IFU = شنبر مكشوط الرأس مخروطي ، السطح السفلي من الحافة الداخلية مشطوفة
	TT-IF = شنبر احادية الانحراف السطح العلوي من الحافة الداخلية مشطوفة		TN-IW = شنبر مخروطي ، السطح العلوي من الحافة الداخلية مكشوط الرأس تدريجي
	TT-IFU = شنبر احادية الانحراف السطح السفلي من الحافة الداخلية مشطوفة		TN-IWU = شنبر مخروطي ، السطح السفلي من الحافة الداخلية مكشوط الرأس تدريجي
	TT-IW = شنبر السطح العلوي من الحافة الداخلية منحرف احد طرفه تدريجي		SC = شنبر ذو شق ضبط الزيت
	TT-IWU = شنبر السطح السفلي من الحافة الداخلية منحرف احد طرفه تدريجي		DC = شنبر ذو شطف ضبط الزيت
	T = شنبر ثنائية الانحراف		DB = شنبر ذو ثنائي ضبط الزيت
	T-IF = شنبر ثنائية الانحراف السطح العلوي من الحافة الداخلية مشطوفة		ES = شنبر ذو شق ضبط الزيت نابض ورقي
	T-IFU = شنبر ثنائية الانحراف السطح السفلي من الحافة الداخلية مشطوفة		SY = شنبر ذو شق ضبط الزيت نابض حلزوني
	T-IW = شنبر السطح العلوي من الحافة الداخلية منحرف الطرفين تدريجيا		DY = شنبر ضبط الزيت نابض حلزوني مشطوف الحافة
	T-IWU = شنبر السطح العلوي من الحافة السفلية منحرف الطرفين تدريجيا		PS = شنبر ضبط الزيت نابض حلزوني مزدوج مشطوف الحافة
	TK = شنبر مخروطي ثنائية الانحراف		VF = شنبر ذو حزام فولاذي لولب ضبط الزيت على شكل VF
	TK-IF = شنبر مخروطي ثنائية الانحراف السطح العلوي من الحافة الداخلية مشطوفة		UB = شنبر ذو حزام فولاذي لولب ضبط الزيت على شكل U
	SDR = شنبر قناة السطره على الزيت فولاذي ذات لولب على شكل V		SDV = شنبر ذو حزام فولاذي لولب ضبط الزيت على شكل V
	X = سمك الشنبر (مم)		DKS = رينج كمنترول روغن سه تكة اى تخت، ذوزنقه اى و استوانه اى

تعليمات تركيب البساتم

- 1 - يجب ان يكون سطح السلندر المراد تركيب البيستون عليه مشحوذ على شكل خطوط مربعة و عند تركيب البساتم على سلندرات او على قمصان مستعلمة يجب مراعاة والتاكيد من تواجد تلك المربعات على السطوح الداخلية لتجويف السنذر و عند اختفاء او مسح تلك الخطوط يجب شخذ السلندر او القميص من جديد.
 - 2 - يصنع البساتم التي تتركب بشكل سليم على السلندرات بقياسات حساسة وياخذ بنظر الاعتبار الفراغات المسموحة بها عند صناعة البساتم ، يجب التاكيد من قطر البيستون المذكور على مصلق البيانات الموجودة على العلبة وبهذه الطريقة تتم تحديد ما اذا كانت المعالجة مطلوبة ام لا ، عند ضرورة تجليخ السطح الداخلي للسنذر في حالة البلى يجب ان تكون نسبة السماح في القطر ضمن نطاق 0,000 الى 0,025 ملم .
 - 3 - ينبغي تركيب بنزات البساتم الجاهزة على البساتم بصورة صحيحة ماخذنا بنظر الاعتبار القياسات لكلا القطعتين لان اي اختلاف في القياسات سوف تؤذي البيستون والبنزات معا . نوصي بقياس البنزات قبل التركيب و بالابتعاد من العشوائية عند التركيب .
 - 4 - بعد تركيب الشنابر على البساتم بواسطة عدة تركيب خاصة لهذا الغرض اضغط الشنابر بواسطة عدة طوق الشنابر او عدة القمع المخروطي وتزيتها جيدا ثم قم بتنزيل البيستون على تجويف السلندر بشكل صحيح ودون استعمال القوة المفرطة في عملية التنزيل لانها تسبب في كسر الشنابر كما يجب ان تاخذ بنظر الاعتبار اتجاه الشنابر مع بعضها
 - 5 - قبل تركيب البساتم بعناية يجب تنظيفها تنظيفا جيدا وتزيت ثقب البنز على الخصوص كما يجب تزيت تجويف السلندر جيدا لتفادي الاضرار التي تنجم في التشغيل لأول مرة .
 - 6 - عند تركيب البساتم اذا كانت هناك اشارة اوسهم يبين اتجاه تركيب البسيون موجوده على راس البيستون يجب اخذ هذه الاشارات بنظر الاعتبار .
 - 7 - يجب ابداء الاهتمام القصوى للشنابر والبساتم وبنزاتها عند التركيب تفاديا للاضرار .
 - 8 - يصنع البساتم حسب الموصفات والقياسات المطلوبة والمتوافقه عليها لذا لايمكن اجراء اي عملية تعديل على البساتم قبل تركيبها .
 - 9 - لايمكن استعمال البنزات وشنابر البنزات المستعلمة لذا يجب تغيير هذه القطع عند كل تركيب .
 - 10 - يجب فحص اذرع البيل قبل التركيب في كل مرة لان اي اعوجاج او خلل في الذاراع ينجم اضرارا كبيرة جدا .
- ملاحظة :** الشركة المنتجة للقطع غير مسؤولة عن الاضرار او التلف التي تنجم من خلال تركيب القطع دون مراعاة النقاط المبينة اعلاه .

8 - وسمة ورموز البيستون



9 - رقم مرجع المكبس نموذج

رقم مرجع البيستون	11-01513-000	<p>القياس الاصيلي / بيستون + شنبر = 000</p> <p>ارتفاع انضغاط البيستون 0,20 مم قصيرة = 001</p> <p>ارتفاع انضغاط البيستون 0,40 مم قصيرة = 002</p> <p>ارتفاع انضغاط البيستون 0,60 مم قصيرة = 003</p> <p>بيستون + شنبر / اعلى مقياس 0,50 = 050</p>
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رقم المرجع القديم	رقم المرجع الجديد
1513 000	11-01513-000

10 - رقم مرجع البيستون + شنبر نموذج

رقم مرجع البيستون + شنبر	31-03513-000	<p>المقاسات الاصلية/ بيستون + شنبر = 000</p> <p>المقاس الاعلى / بيستون + شنبر ملم 0,50 = 050</p>
--------------------------	---------------------	--

رقم المرجع القديم	رقم المرجع الجديد
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

المختلفة الطلاء
ونوعية الشنبر شكل

38-

39-

11 - رقم مرجع تعريفات القميص نموذج

رقم مرجع القميص ← **51-05513-000** → القميص / STD = 000
مقياس اعلى / قميص +0,50 مم = 050

رقم المرجع القديم	رقم المرجع الجديد
5513 000	51-05513-000

12 - ارقام مراجع اطقم الكيئات

كد كييت: ببيستون + كژن بين + رينگ + بوش

كد كييت ← **71-07513-000** → كييت / STD = 000
اندازه خارج از استاندارد / كييت +0,50 مم = 050

نوع رينگ و تفاوت
پوششهای مختلف ← **71-8**
71-9

رقم المرجع القديم	رقم المرجع الجديد
7513 000	71-07513-000
7513 000-08	71-87513-000
7513 000-09	71-97513-000

13 - رقم مرجع الشنبر

رقم مرجع البيستون ← **91-09513-000** → الشنبر / STD = 000
شنبر / مقياس اعلى +0,50 مم = 050

نوع رينگ و تفاوت
پوششهای مختلف ← **98-**
99-

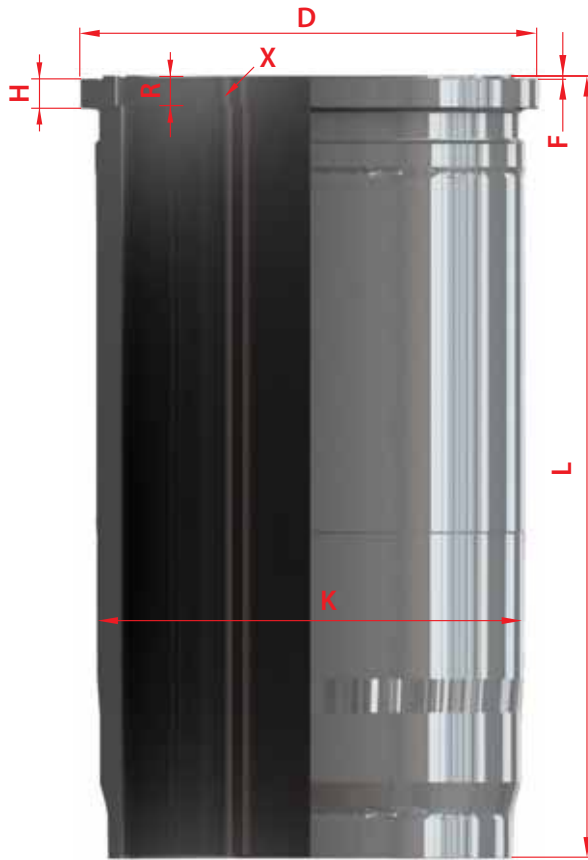
رقم المرجع القديم	رقم المرجع الجديد
9513 000	91-09513-000
9513 000-08	98-09513-000
9513 000-09	99-09513-000

14 - رقم ربلات قميص سلندر

رقم ربلات قميص سلندر ← **55-50701-000**

المصطلحات الفنية

توضيحات حول الموصفات التقنية للقمصان



القطر الخارجي = K
الطول الإجمالي = L
طول الشفة = H
عمق الحشوية = F
قطر الشفة = D
طول الشنبر مكان تجمع الكربون = X
طول مكان تجمع الكربون = R

تعريف قميص سلندر حسب معهد المواصفات التركيبية TSE 482
قمصان سلندر في محركات ذات الاحتراق الداخلي والذي يتحرك البيستون في داخله وتتم في داخله عملية الاحتراق ويتكون على شكل اسطوانة مصنوعة من الحديد الزهر الرمادية وينقسم الى قسمين .

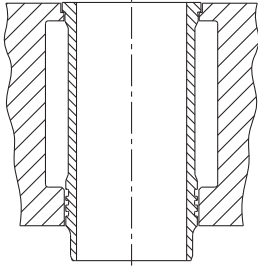
قمصان سلندر مبللة :

تلك القمصان التي تتركب على سلندرات والتي تتم فيها عملية التبريد بواسطة الماء مباشرة اي تمس الماء الجدار الخارجي للقمصان في داخل بلوك سلندر يتكون من ثلاثة اقسام رئيسية :

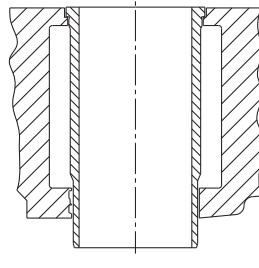
ا- ذو شفة وقناة : يجلس على بلوك السنذر بواسطة شفة بارزة وله قناة يركب عليه ربات لكي يمنع تسرب الماء الذي يمسه في عملية التبريد . (الشكل 1)

ب - ذو شفة وبدون قناة : يجلس على بلوك السنذر بواسطة شفة بارزة ولا يحتوي على قناة لان القناة موجودة في بلوك السنذر . (الشكل 2)

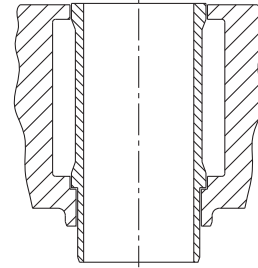
ت - ثنائية الشفة : لاجل يمنع تسرب الماء من بلوك السنذر تكون هناك شفة من الاعلى و شفة من الاسفل (الشكل 3)



الشكل-1



الشكل-2



الشكل-3

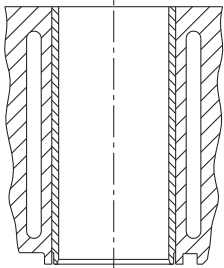
قميص سلندر جاف :

قميص لايمسه الماء مباشرة عند عملية التبريد في بلوك المحرك الذي يركب عليه هذا النوع من القميص

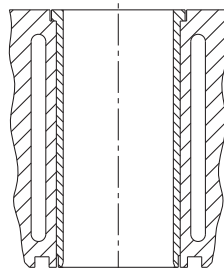
يمكن تصنيفه على فئتين على اساس الشكل :

أ- ذي شفة (شكل 4)

ب- بدون شفة - مسطح (شكل 5)



شكل- 4



شكل- 5

المسائل التي يجب اخذها بنظر الاعتبار عند تركيب القمصان :

ارشادات تركيب قمصان سلندر جافة

يصنع قميص سلندر جاف على شكل نوعين ذو شفة وبدون شفة (الشكل-6) ظروف العمل السيئة وتركيب البساتم بشكل غير صحيح كل هذه الامور تؤدي الى انحراف في الاتجاه المحوري في قمصان جافة بدون شفة لذا يرجح تركيب قمصان جافة ذو شفة تفاديا تلك المشاكل .

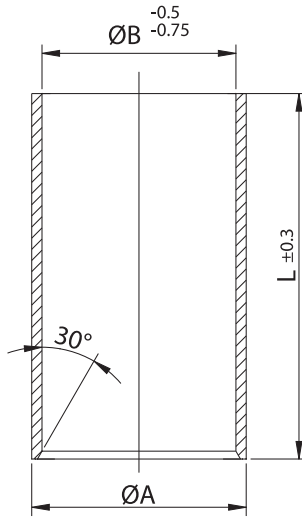
قبل تنزيل القمصان بالضغط يجب ان يكون المقياس الخارجي مطابقة كما في القيم الموجود في القائمة (أ) وعند عدم ملائمة المقياس يجب شحذ القميص او خراطته .

ويجب مراعاة القياسات ادناه كما في الشكل 7 وعلى خلاف ذلك فلو كانت الارتداد الامامي واطنة جدا فان عملية تصريف الحرارة سوف لن تكون بشكل مرضي ولو كانت الارتداد الامامي عالية جدا فانها تؤدي الى عدم تطابق الجدار الرقيق للقمصان مع بطانة السلندر فمن المحتمل ظهور اعطال التشغيل انذاك . القمصان الجافة الجاهزة قياستها الخارجية يتم خراطة القطر الداخلي اصغر بحوالي 0,5-0,75 ملم .

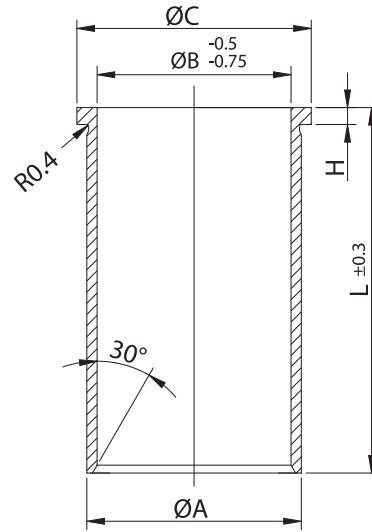
عند تنزيل القمصان الجافة ذات شفة على بلوك سلندر بواسطة المكبس يجب خراطة القطر الخارجي للشفة من فوهة السلندر التي تجلس عليها شفة القميص بقطر اكبر تفاديا من تعرض شفة القميص الى القطع .

المصطلحات الفنية

يجب التأكد من ان السطح السفلي من وجه شفة القميص جلست في مكانها في فوهة السلندر بشكل صحيح عند تنزيلها بالمكبس على السلندر .



الشكل 6-



الشكل 7-

من المعلوم بان القسم السفلي لشفة القمصان منحي بدرجة 0,4 ملم . لذا يجب اعطاء شطب بدرجة 1,0 على المكان الذي يجلس عليها الشفة وعلى خلاف ذلك فان الشفة تتعرض للقطع عند التنزيل .

عند تركيب قمصان جديدة على السلندرات يجب تنظيف تجويف السندر تنظيفا جيدا وظيف قياسته الحساسة بشكل دقيق ويجب ان لا يتعدى مخروطيته وبيضويته من 0,025 ملم . وعند الشد يجب محاولة تحقيق سطح لامع كما يجب تحقيق خشونه سطحية ملائمة حسب نوعية المحرك . ومن اجل تحقيق عملية تزييت صحية يجب الابتعاد من تحقيق لمعان او خشونه مفرطة .

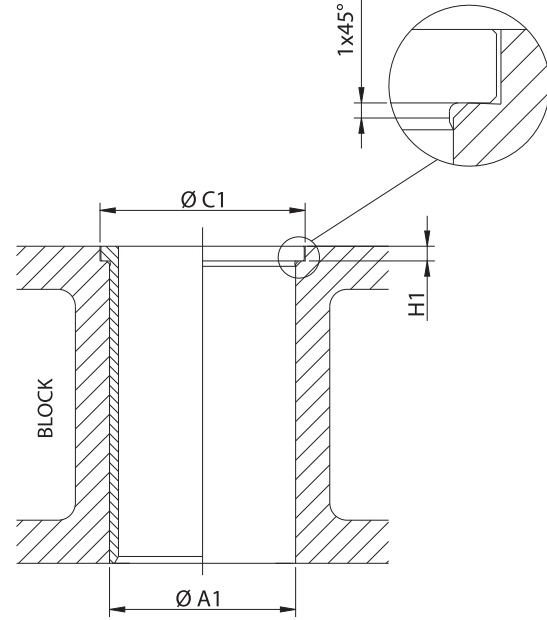
ضغط 3000-5000 كغم كافية عند كبس القميص الجاف في عملية تنزيله الى السلندرات . يجب الابتعاد من استعمال المواد الصلبة (غير مائعة) في عملية التزييت عند تنزيل القمصان لان تلك المواد سوف تتفحم وتعدوا مادة عازلة تعوق دون اتمام تسريب الحرارة في اثناء عملية التبريد . كما يجب تخليخ سطح السلندر بعد تنزيل القمصان لاجل عمل سطح مناسب للكاسكيت .

في حالة ايجاب معالجة السطح العلوي للبلوك - مكان تجليس الكاسكيت- يجب انذاك معالجة فوهة جلوس الكاسكيت بشكل اعمق في محركات التي تستعمل قمصان منتهية القياسات خارجيا ومخروطة من الداخل بحساسية .

هذه الانواع من القمصان التي انزلت عن طريق الكبس على البلوك لديها حصة قليلة للشد نسبة سماح القطر الداخلي تتراوح بين + 0 الى + 0,015 ملم والقطر الخارجي تتراوح السماح بين + 0,012 الى 0,024 ملم

مجموعة القطر الخارجي للقمصان			
	50 - 80	80 - 120	120 - 180
QA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
QC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

اقطار تجويف البلوك (مم)			
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
QC ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25



الشكل-9

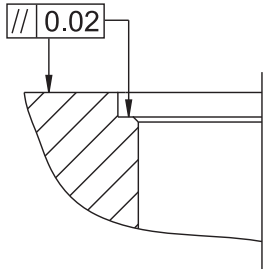
تعليمات تركيب قمصان مبللة

يتم تصنيع قمصان سلندر في ينماك بطريقة الطرد المركزي لمقاومة الانكماش والتآكل . لتفادي حدوث تخريبات على البلوك يوصى اخراج القمصان من البلوك بعناية فائقة . يجب تنظيف بلوك السندر من الترسبات الطينية والجيرية والترسبات الملحية ويجب عدم استعمال الات حادة وثاقبة في عملية التنظيف بل يوصى باستعمل الفرشاة السلكية لهذا الغرض . عند محاولة اخراج القميص من البلوك قد يكون القميص عالق انذاك يوصى بوضع وتد ومحاولة تحريك القمصان بالضرب على الوتد وفي حالة عدم جدوى هذه الطريقة انذاك يخرج القمصان باستعمال الماكبس الهيدروليكية وعند التنظيف يجب ابداء الاهتمام الخاصة على السطوح التي تجلس عليها القميص .

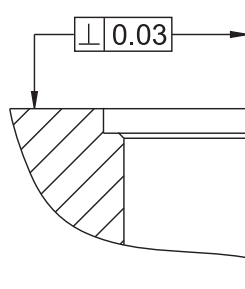
يجب ان يكون سطح البلوك الذي يجلس عليه القميص والسطح السفلي لشفة القميص موازيا مع بعض كما في الشكل (10) . ويجب ان لا يكون هناك اي اختلاف في التسطيح والنعمية لكلا الوجهين . بالإضافة إلى ذلك، يجب فحص ما إذا كان محور سطح البلوك مقعد الكاسكيت عموديا ام لا . (الشكل 11) كما هناك نقطة مهمة جدا وهي فحص سطح البلوك الذي يجلس عليه القميص ما انه غير تالف او متاكل وانها بحالة جيدة . كما في الشكل (12) .

لتفادي مسالة عدم جلوس الزاويا السفلى من شفة القميص (د) مع الزاوية القائمة لمكان جلوس القميص في البلوك (أ) قطر السلندر (س) من نقطة العبور يجب اعطاء انحراف 0,5-1.0 ملم بزاوية 45 درجة لمنع خطر الانكسار يجب ايجاد القوة العمودية بين قوة عدم التسرب وقوة الرد المقابلة لها .

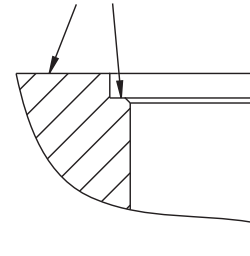
المصطلحات الفنية



الشكل- 10

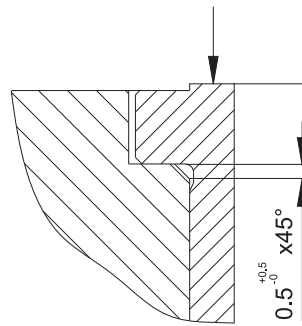


الشكل- 11

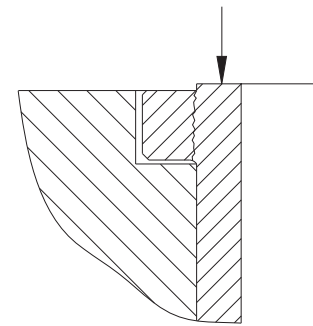


الشكل- 12

قطر فوهة الكاسكيت (ب) يجب ان يكون مساوية مع القطر الخارجي للقميص (ج) . ولمنع التسرب من غرفة الاحتراق يجب ان يكون اطار فوهة الكاسكيت معدنية .



الشكل- 14



الشكل- 15

- لمعرفة ما اذا كان القميص المراد تركيبه كبير او صغير ينزل القميص على داخل بلوك سلندر بدون تركيب الربلات قبل تركيبه النهائي. وبالاخص التاكيد من ان شفة القميص تجلس في مكانها بشكل جيد يوصى قبل التركيب بقلب القميص ووضعها على فوهة السلندر ومعرفة اذا كانت ملائمة ام لا و كما هو معروف ان شفة القميص تقع في المنطقة التي لاتصل اليها عملية التبريد وانها تتعرض للتمدد لذا يجب اخذ بنظر الاعتبار ان يكون الفراغ هنا 0,3-0,5 ملم

هنا في تعليمات التركيب ننتهز كل فرصة لكي نؤكد باستعمال ادوة خاصة معدة لهذا الغرض وعدم استعمال المطارق او بعض اللات الغير ملائمة في عملية اخرج وتركيب القمصان لان اي خلل بسيط قد يؤدي الى عواقب وخيمة لذا نوصي بابداء الاهتمام والعناية .

الربلات التي تسعمل في التركيب يجب ان تكون ذات جودة عالية تتحمل الحرارة العالية والزيت ومقاومة للانفخاخ والبلى وخلاف ذلك فانها تسرب الماء الى الكارتير وهذا يؤدي الى تعصي القميص ويفسد القياسات ويكون سببا في اعطال المحرك . يجب تشحيم الربلات بالصابون في كل مرة قبل التركيب لاجل اجلاس الربلات في محله بشكل سهل وصحيح.

مسك البيستون والذي يؤدي الى قطع القمصان سببه استعمال ربلات غير ملائمة ينبغي عدم حفر فنوات الربلات مطلقا .

من الاحسن اعادة قياسات السلندر بعد تجليس القميص فيه ، هذه القياسات يجب ان تجري تحديدا في المناطق الموجودة فيها الربلات للتاكيد من عدم حصول البيضوية او في المناطق التي قد تحدث فيها الانكماشات .

بعد تركيب القمصان على السلندر يجب املاء السلندر بالماء وضغطها للتاكيد من عدم وجود التسربات




تفاصيل علامات القميص



ربلات القمصان

ربلات القمصان	
EPDM	مطاط EPDM
NBR	مطاط NBR
FPM / VI	فايتون
Cu	نحاس
T	سبيكة من نحاس والزنك
ST	فولاذ
SC / MVQ	سليكون
Shim / SM	معدن لين



93,000 1		3		4		5		6		7	
4JB1 2		D 00 2005 > 00 2005 4 Cyl 2771cc 57kW (78ps)									
 <p>11-02385-000 8 CH 51,850 VD1 0,550 10 B- 19,500 BØ 43,900 12 TL 91,850 13 31,00x76,00 15</p>		<p>AP 14 YS HA CP</p>		<p>91-09389-000 1 2,000 P 16 2 2,000 P 3 4,000 CrP</p>		<p>1. Conta ile 1,50mm (+0,71/+0,77) 2. Conta ile 1,55mm (+0,77/+0,81) 3. Conta ile 1,60mm (+0,81/+0,87) 17</p>		<p>Ø 93,000 18</p>		<p>31-04385-000 19</p>	
<p>Isuzu ve Opel ile Ortak Motor 27</p>				<p>99-09389-000 1 2,000 FeP 16 2 2,000 FeP 3 4,000 TeF</p>						<p>39-04385-000</p>	
 <p>K=95,00 22 L=181,00 H=0,90 25 D=101,00 23</p>		<p>DF-CR-ST 26</p>						<p>51-35721-000 20</p>		<p>71-08385-000 71-98385-000 21</p>	
 <p>K=120,00 22 L=229,00 H+F=9,00+1,10 25 D=128,50 23</p>		<p>WF 26</p>				<p>O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00 28</p>		<p>51-06067-000 52-06067-000 20</p>		<p>71-07152-000 72-07152-000 21</p>	

- | | | | |
|-----|---|-----|-------------------------|
| -1 | قطر البيستون | -15 | قطر البنز - طول - خصائص |
| -2 | رمز المحرك | -16 | خصائص الرنك . |
| -3 | معلومات الوقود | -17 | بروزات رأس البيستون |
| -4 | موديل الاعوام | -18 | قطر السلندر |
| -5 | عدد السلندرات | -19 | رمز البيستون + الرنك |
| -6 | حجم السنذر | -20 | رمز القميص |
| -7 | قوة المحرك | -21 | رمز اطقم الكيئات |
| -8 | رمز البيستون | -22 | القطر الخارجي للقميص |
| -9 | التخزين: CH | -23 | قطر شفة القميص |
| -10 | عمق الصباب : VD1/VD2 | -24 | طول القميص |
| -11 | الاحتراق غرفة عمق (B-)
العليا القبة (B+) | -25 | سمك الشفة |
| -12 | قطر الغرفة: BØ | -26 | ميزات القمصان |
| -13 | الطول الكلي: TL | | |
-
- | | |
|--------|------------------------------|
| WS* | بوش مرطوب نيمه به پايان رسيد |
| WF* | بوش مرطوب پايان كامل |
| DS* | بوش خشك نيمه به پايان رسيد |
| DF* | بوش خشك پايان كامل |
| AF* | هوا سرد می شود پايان كامل |
| PH* | فسفات |
| CR* | كروم |
| HR* | سخت |
| NT* | نيترت |
| HT* | حرارت درماني |
| STEEL* | فولاد |
-
- | | |
|-----|-----------------|
| -27 | موتور معمولی |
| -28 | رمز ربلات قمصان |

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Yenmak, a été créé en 1965 par la famille Kahvecioğlu à Konya dans un petit atelier. Avec le temps YENMAK n'a cessé de s'évoluer et de se renouveler et est devenu l'un des plus grands fournisseurs indépendant, pour les pièces du moteur en Turquie et à l'étranger.

Yenmak aujourd'hui fait la production d'ENSEMBLE, PISTON, AXES DE PISTON, SEGMENT et CHEMISE; JOINT De CULASSE, et fait la distribution de SOUPAPE et COUSSINET DE MOTEUR, elle fait l'exportation de ces produits dans plus de 80 pays différents sur les 5 continents du monde.

Nous offrons à nos clients un partenariat à long terme, avec une confiance ultime, un rapport qualité prix exceptionnel, un service de vente et après vente, pour la fourniture de toutes les pièces du moteur. Yenmak donne beaucoup d'importance à la valeur humaine car c'est l'un des points le plus important pour une bonne relation avec ces clients.

YENMAK; est en possession des certificats de INMETRO, ISO 9001, ISO / TS 16949, IATF 16943, TS EN ISO 14001.

Aujourd'hui, 2 sites de production, 1 siège social et un bâtiment logistique, avec une superficie totale de 50.000 m² est installé à la zone industrielles 1,2 et 3 à Konya.

Les services ventes et opérations de marketing sont au bureau d'Istanbul.



Siège Social & Logistique



Site de Production Piston & axe de piston



Site de Production Chemise de Moteur

YENMAK

PIECES MOTEUR



Depuis 2003, les produits Yenmak on pris une place dans le marché sous la forme ci-dessous.

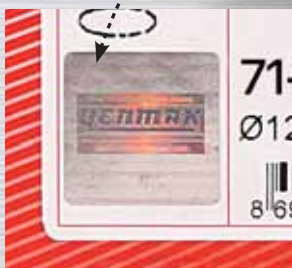
Voici les détails de l'emballage:



Grace à notre label, soyez le premier à ouvrir le produit.



Numéro de traçabilité

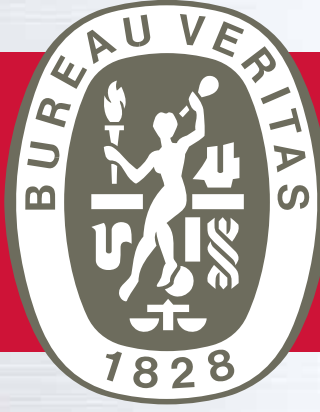


Un hologramme 3D est intégré sur la boîte, pour assurer la sécurité du produit.



Etiquette de sécurité pour assurer la sécurité du produit dessous de la boîte.

BUREAU VERITAS Certification



ISO 14001
ISO / TS 16949
BUREAU VERITAS
Certification



LES PISTONS ARTICULES EN ACIER DOUBLE PIECES



Les pistons articulés en acier est formées d'une tête de piston en acier et d'un corps en aluminium reliés entre eux et mouvementé sur l'axe de piston. Due a des valeurs de résistance très élevée et de faible abrasion, ces pistons sont principalement utilisés pour des moteurs diesel avec gaz d'échappement et des émissions basse et limités.

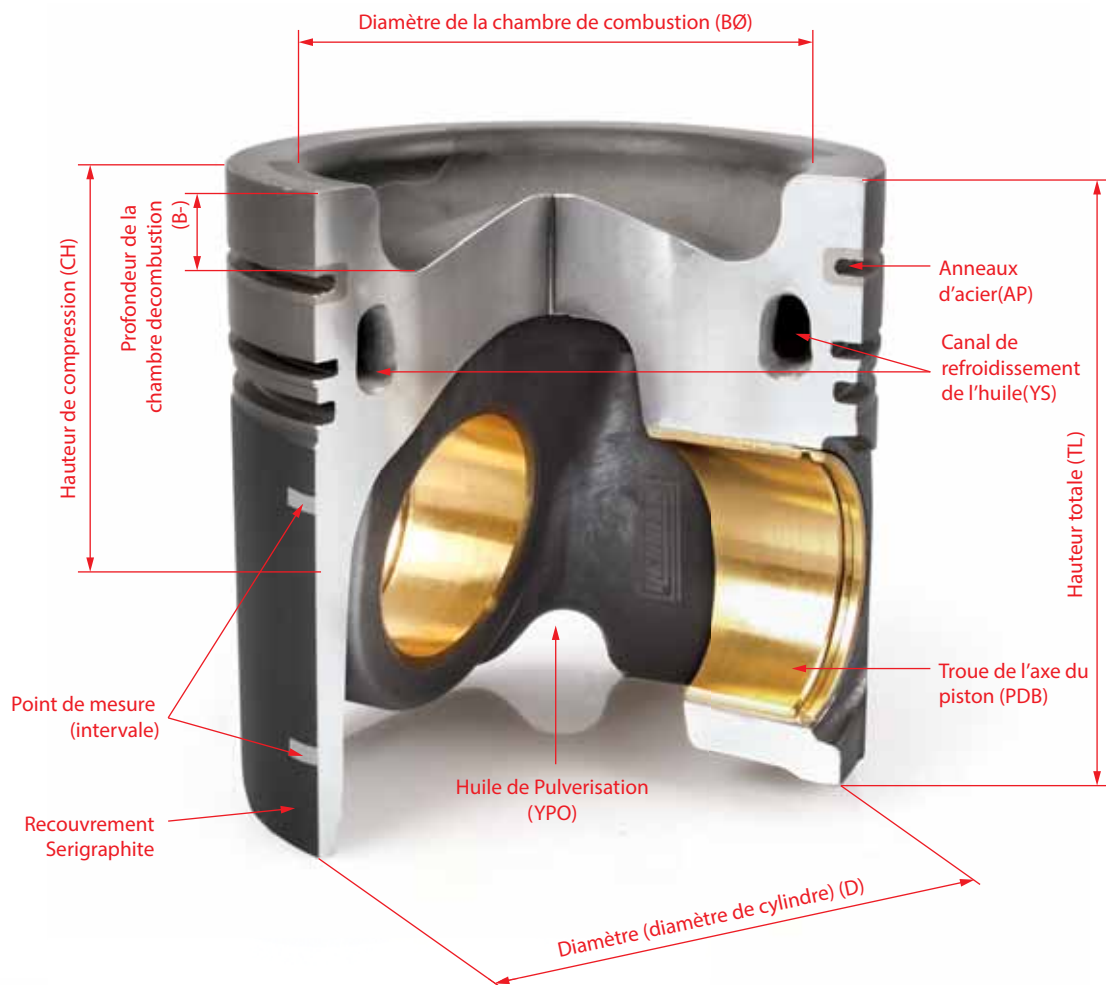
Les pistons articulés en acier sont utilisés pour;

- Les moteurs ayant un taux de compression élevés avec des chambres de combustion moderne.
- Les Moteurs diesel lourd pour service
- Les moteurs au système de carburant multiple

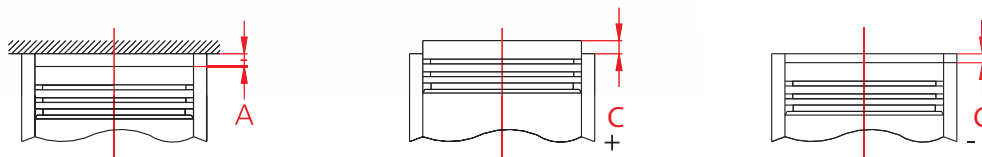
Les avantages de piston articulés en acier à doubles pièces

- Moins de perte du au frottement.
- Grâce à sa forte résistance face aux charges thermiques, il réduit le risque de déformation des chemises et peut fonctionner des le bas de la chemise tout en augmentant les propriétés d'étanchéité des segments.
- Un piston normal en aluminium peut résister a une pression allant jusqu'à 100 bars, tandis que le piston articulé peut résister jusqu'à 250 bars de pression.
- Un taux de compression plus haut et une émission de CO₂ en baisse de % 2-5. L'alfin (anneaux d'acier) utilisé sur les pistons en aluminium sur les moteurs diesel, essaye de réduire ces problèmes de contact.
- Pour les pistons avec canaux de refroidissements, il donne l'occasion aux canaux d'être plus près de la partie supérieure du piston et cela donne un refroidissement plus efficace.
- Les pistons acier articulé par rapport au piston en aluminium ont une déformation minimum dans la chambre de combustion
- Les pistons acier articulé baissent les coûts de rectification de moteurs, liés à leur effet positif sur la vie de moteur.
- Les pistons acier articulé, n'on pas le problème de perforation ni la fonte de piston, lié au système d'injection de carburant excessif.

SPECIFICATIONS TECHNIQUES



Mesure des têtes des pistons



A = longueur jusqu'à la tête du cylindre

C = longueur de la tête de piston depuis la surface du bloque

INSTRUCTIONS DU MONTAGE DES SEGMENTS DE PISTON YENMAK

Nettoyer les canaux d'huiles et les résidus de carbone qui sont dans les canaux du piston avant installation des segments. Il faut bien nettoyer tous les résidus, sauf les couches de carbones situés sur le haut du piston. Faire attention à ce que les canaux soient propres. Il faut veiller à ce qu'il n'y ait pas de rayures quand on nettoie les courbures du bord de la jonction de faces latérales et inférieures. Sinon dans l'avenir, ces rayures seront le début des craquages. Les segments Yenmak sont conformes au piston original des moteurs. Les valeurs des limites d'abrasion des cylindres des segments de piston de Yenmak sont citées en bas:

Pour les moteurs en essence, plus 0, 1 mm au diamètre

Pour les moteurs Diesel plus 0, 15 mm au diamètre

Même s'il ya une abrasion dans les limites cités en haut du piston usée, un changement des pistons est préconiser car il y a une déformation excessive dans les canaux des segments. Les pistons ayant une valeur d'espace acceptable peut être trompeuse car les défauts sur les canaux de la segmentation et cela vas engendrer un mauvais fonctionnement du travail des segments et une surconsommation d'huile.

Tordre les segments peut causer la détérioration de la surface de travail des segments et déformer les matériaux de revêtements. Cette déformation invisible peut conduire à des problèmes de fonctionnement du moteur.

Placer les pistons dans leur fente dans l'ordre, en ouvrant les segments (avec une pince de segment). Après, il faut serrer les segments en utilisant un serre segment de piston ou bien un manchon d'installation et pousser le haut du piston avec la tige du marteau et le faire glisser dans le cylindre. Pendant ce processus et pour empêcher que les segments fin sortent de leur canaux et causent des dommages, il faut faire attention à bien tenir les menottes. Il ne faut pas utiliser des segments chromés pour les moteurs ayant une chemise chromée. Il faut accrocher les segments dans les fentes en mettant le marquage YEN ou TOP vers le côté de la chambre de combustion. Si aucun marquage sur les segments, alors il peut être monte sur tous les sens.

REVETEMENTS DE PISTON ET TRAITEMENTS DE SURFACE

Cr = Chromage

Mo = Revêtement de molybdène

P = Revêtement phosphate

Fe = Revêtement de Ferroksyte

Cu = Revêtement de cuivre

Nt = Revêtement de nitrure

Sn = Revêtement d'étain

Ck = Revêtement de Céramique chrome

Pvd = Accumulation de Vapeur physique

CDC = Revêtement de Diamant chrome

Dlc = Revêtement de carbone revêtu de diamant

Tef = Recouvrement Teflon

SPECIFICATIONS TECHNIQUES

REVETEMENT DE PISTON ET TRAITEMENTS DE SURFACE

Ck (Chrome-céramique revêtement)

Les revêtements de chrome-céramique est une sorte de revêtement composite qui est formé des éléments nichés de chrome, aluminium et d'oxyde. Ces revêtements sont utilisés pour les premiers segments de pistons pour véhicules à moteur diesel. Les revêtements CKS ont une très haute performance et haute qualité avec sa différence de méthode en électrolyse.

Différence de revêtement Ck de revêtement de chrome dur;

- Résistance à l'abrasion plus élevée
- Point de fusion plus élevé
- Densité de fissure et dureté plus élevée

Grâce à ces avantages, les revêtements CK fournissent une extension de vie aux moteurs et une formation des gaz d'échappement à faible émission.

Pvd (L'accumulation du vapeur physique)

Le procédé PVD est le résultat de l'accumulation des segments sur la surface en se décomposant activement par la phase vapeur du revêtement dur. La vaporisation et l'ionisation du métal avec le bombardement d'ion et l'arc électrique se font avec ce procédé.

Les ions en métal dissociés et organisés se font avancer sur la surface des composants. À la fin de ceci, les atomes métalliques entrent en réaction avec les gaz réactifs et produisent oxyde, nitrure et carbure. Après la réaction sur la surface de travail des segments, se produit une couche mince. Cette couche montre une forte résistance face à l'abrasion et à la corrosion grâce au caractère se trouvant dans la céramique.

Mo (Molybdène Revêtement)

Pour empêcher l'abrasion de l'entourage des segments, il faut le revêtir avec le molybdène. Pour éviter les traces des brûlures, on peut revêtir ou remplir avec le molybdène les surfaces de travail des segments. Le procédé de revêtement se fait soit avec la pulvérisation de flamme et soit avec la pulvérisation de plasma. Avec son point de fusion élevé, avec sa structure poreuse, son effet lubrifiant, Molybdène fournit une surface (2620 C0) de travail de piston de segment plus résistant. Sa résistance d'abrasion face aux frictions et à la conductivité thermique est élevée.

Cr (Chromage)

La méthode est utilisée pour augmenter la dureté des segments. Le but du revêtir de chrome, c'est réduire l'usure et prolonger la durée de vie des chemises de cylindre et des segments. Il est possible de réduire l'usure du flanc de la chemise du cylindre et du segment, en couvrant le 1er segment avec du chrome. Aujourd'hui, non seulement le 1er segment en est recouvert de chrome, mais deux ou plus de deux segments en sont recouvert.

L'usure liée au segment sera moins forte car le chromage va former une surface dure.

Le chromage s'applique en deux façons:

- Dure
- Couvrir avec chrome poreux

Pour le chromage dur, après avoir couvert la surface des segments avec le chrome, celui-ci prend sa forme finale après être rectifié. Les surfaces des segments détiennent l'huile car ils sont couverts avec du chrome poreux. Avec celle-ci, ils fournissent une usure minimum sur les surfaces des chemises de cylindre où elle vont travailler.

Nt (Revêtement Nitrure)

Toute la surface du segment est durcit avec une opération de revêtement de nitrure. Avec cette couverture, la résistance de la surface augmente face à la friction. Donc la durée de vie du segment augmente. La production de revêtement de nitrure et les spécifications d'émission sont respectueuses face à l'environnement. On a vu des résultats de travail plus performant avec le revêtement nitrure depuis les surfaces de performances critique. Il abaisse les pertes d'huile produite par les points faibles des segments. La fonte baisse la fragilité des segments. Il prolonge la vie des moteurs.

Cdc (Couvert de chrome diamant)

Ce revêtement est utilisé pour le 1er des segments, des moteurs diesel et euro 4. On peut l'utiliser pour des fontes en alliage, souples et acier en carbone. Les particules de diamant sont utilisées à la place des particules de céramique. Ainsi, la résistance à l'abrasion et la performance antifriction est augmentée.

Dlc (Diamond Like Carbon)

Grâce à son revêtement, la friction baisse et la résistance contre l'usure augmente. Les spécifications des revêtements DLC sont respectueuses à l'environnement. Leur liaison chimique est forte et ne se casse pas sous la tension mécanique. Ils ne sont pas en forme de cristal mais uniformes. Ces matériaux sont très forts en raison de sa structure. Il est plus résistant par rapport à d'autres revêtements et en même temps sa résistance est plus élevée contre l'abrasion.

SPECIFICATIONS TECHNIQUES



D = Segment rectangulaire



D-IF = bord intérieure surface supérieur biseauté segment rectangulaire



D-IFU = bord intérieure la surface intérieure segment rectangulaire



D-IW = bord intérieure la surface supérieur segment rectangulaire



D-IWU= bord intérieure surface intérieure graduelle segment rectangulaire



K = Segment conique



K-IF = Segment, le bord intérieure la surface supérieur conique biseauté



K-IFU = Segment, le bord intérieure la surface intérieure conique biseauté



K-IW = Segment, le bord intérieure la surface supérieur conique graduelle



K-IWU= Segment, le bord intérieure la surface intérieure conique graduelle



TT = Segment de trapèze unilatérale



TT-IF = Le bord intérieure la surface supérieur segment de trapèze biseauté unilatérale



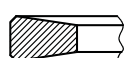
TT-IFU= Le bord intérieure la surface intérieure segment de trapèze biseauté unilatérale



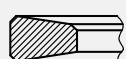
TT-IW = Le bord intérieure la surface supérieur segment de trapèze graduelle unilatérale



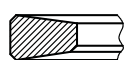
TT-IWU= Le bord intérieure la surface intérieure segment de trapèze graduelle unilatérale



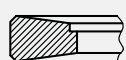
T = Segment de trapèze à deux côtés



T-IF = Le bord intérieure la surface supérieur segment de trapèze biseauté à deux côtés



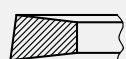
T-IFU = Le bord intérieure la surface intérieure segment de trapèze biseauté à deux côtés



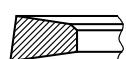
T-IW = Le bord intérieure la surface supérieur segment de trapèze graduelle à deux côtés



T-IWU = Le bord intérieure la surface intérieure segment de trapèze graduelle à deux côtés



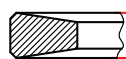
TK = Segment de trapèze conique à deux côtés



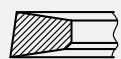
TK-IF = Le bord intérieure la surface supérieur segment de trapèze biseauté conique à deux côtés



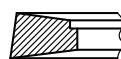
SDR = Type V, avec un canal, segment de contrôle d'huile en acier, spiral avec arc



X = L'épaisseur de segment (mm)



TI-IFU = Le bord intérieure la surface intérieure segment de trapèze biseauté conique à deux côtés



TK-IW = Le bord intérieure la surface supérieur segment de trapèze graduelle conique à deux côtés



TK-IWU= Le bord intérieure la surface intérieure segment de trapèze graduelle conique à deux côtés



N = Segment au nez éraflant



N-IF = Le bord intérieure la surface supérieur segment biseauté au nez éraflant



N-IFU = Le bord intérieure la surface intérieure segment biseauté au nez éraflant



N-IW = Le bord intérieure la surface supérieur segment graduelle au nez éraflant



N-IWU= Le bord intérieure la surface intérieure segment graduelle au nez éraflant



TN = Segment conique au nez éraflant



TN-IF = Le bord intérieure la surface supérieur segment biseauté conique au nez éraflant



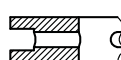
TN-IFU= Le bord intérieure la surface supérieur segment biseauté conique au nez éraflant



TN-IW = Le bord intérieure la surface supérieur segment graduelle conique au nez éraflant



TN-IWU= Le bord intérieure la surface intérieure segment graduelle conique au nez éraflant



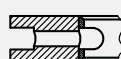
SC = Segment fendu de contrôle de l'huile



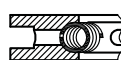
DC = Segment biseauté de contrôle de l'huile



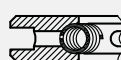
DB = Segment à deux biseautés de contrôle de l'huile



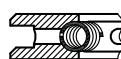
ES = Segment de contrôle de l'huile fendu ressort à feuille



SY = Segment spirale à feuilles de contrôle de l'huile



DY = Ressort à spirale côtés biseautés segment de contrôle de l'huile



PS = Ressort à spirale côtés à deux biseautés segment de contrôle de l'huile



VF = Bande d'acier ressort à VF segment de contrôle de l'huile



UB = Bande d'acier type U segment contrôle de l'huile



SDV = Ressort à spirale type V avec canal segment acier de contrôle de l'huile



DKS = Cylindre Konique huile de Control du segment

INSTRUCTIONS GENERALES DU MONTAGE DES PISTONS

1- Il faut qu'il y ait des lignes de rodage en forme de losange sur la surface intérieur du cylindre où sera le montage du piston. Il faut contrôler l'aptitude des lignes de rodage, sur la surface intérieur du cylindre si celui ci sera installé sur le cylindre usé et/ou utilisé. Si les lignes de rodage sur la surface intérieur du cylindre a disparu et qu'il y a une surface clair, il faut encore faire des lignes de rodage.

2- Quand tous les pistons s'installent dans un cylindre ayant des dimensions bonnes, la fabrication se fait sensiblement en déterminant les bons pistons- espace de travail du cylindre. Il faut contrôler les diamètres intérieurs du cylindre pour voir l'aptitude avec les étiquettes sur les boites et décider s'il faut encore les traiter ou pas. Quand il faut traiter les diamètres intérieurs des cylindres usés, il faut traiter la tolérance comme diamètre nominal de dimension haut 0.000 - 0.025 mm.

3- Il faut enlever le maneton avec des méthodes sans donner dommage au piston ni au pin. Il ne faut pas changer les manetons de façon aléatoire, les manetons sont assemblés avec les pistons en jumelant leur conformité dimensionnelle

4- Pendant le montage des segments au piston, utilisez un équipement convenable à ne pas donner dommage au piston et déformer les segments. Pendant le montage du piston au cylindre, utilisez un serrage de pince de segment convenable ou bien un manchon d'installation conique. Après avoir réalisé la procédure du serrage de segment, évitez d'assembler le piston dans le cylindre avec beaucoup d'effort ou bien en tapant, faut juste assembler avec attention par la force du doigt.

5- Avant le montage du piston au cylindre, il faut nettoyer le piston avec attention et notamment faut nettoyer le trou du maneton et mettre de l'huile. Avant le montage, l'intérieur du cylindre, il faut mettre de l'huile complètement pour que le piston et le cylindre n'aient pas de dommage pendant le premier travail, jusqu'à la lubrification du piston

6-S'il y a un étiquetage qui montre la direction du montage au sommet du piston comme marque, il faut faire l'installation en conformité avec ce marque

7- Il faut faire attention maximum à ne pas endommager le piston ni le segment et le maneton

8- Les pistons sont fabriqués convenable aux autre pièces qu'ils vont être utilisés ensemble et qui sont acceptés en général conforme aux normes. A cause de cela, il ne faut pas faire de traitement dessus après.

9- Il ne faut pas utiliser les pins et les segments de sécurité encore une fois, chaque fois, il faut utiliser des nouveaux.

10- Contrôle de la linéarité de la tige à être utilisé dans l'installation, il est important d'éviter les problèmes très graves qui peuvent survenir. La linéarité de la tige doit être vérifiée de nouveau avant l'assemblage de dispositifs appropriés.

NOT : Pendant les instructions de montage, il faut suivre ces instructions. Le fabricant n'est pas responsable des problèmes liés au montage non convenable.

SPECIFICATIONS TECHNIQUES

8- LES CODES ET LES MARQUAGES DES PISTONS



9- LE NUMERO DE REFERENCE DE PISTON

EXEMPLE

Le numéro de référence de Piston

11-01513-000

- 000 = STD / Piston + Segment
- 001 = Hauteur de compression (stroke) -0,20 mm court
- 002 = Hauteur de compression (stroke) -0,40 mm court
- 003 = Hauteur de compression (stroke) -0,60 mm court
- 050 = +0,50 mm dimension du haut / Piston + Segment

ANCIEN NUMERO DE REFERENCE	NOUVEAU NUMERO DE REFERENCE
1513 000	11-01513-000

10- PISTON + LE NUMERO DE REFERENCE DE SEGMENT

EXEMPLE

Piston + Segment numéro de référence

31-03513-000

- 000 = STD / Piston + Segment
- 050 = +0,50 mm dimension du haut / Piston + Segment

ANCIEN NUMERO DE REFERENCE	NOUVEAU NUMERO DE REFERENCE
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

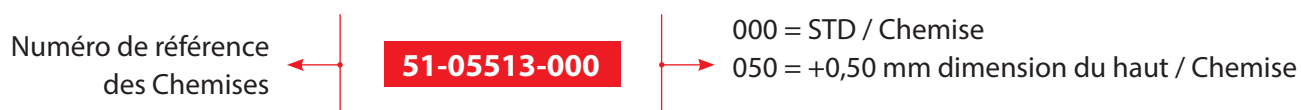
Différences entre types de segments et recouvrements

38-

39-

11 - DESCRIPTIONS DES REFERENCES DES CHEMISES

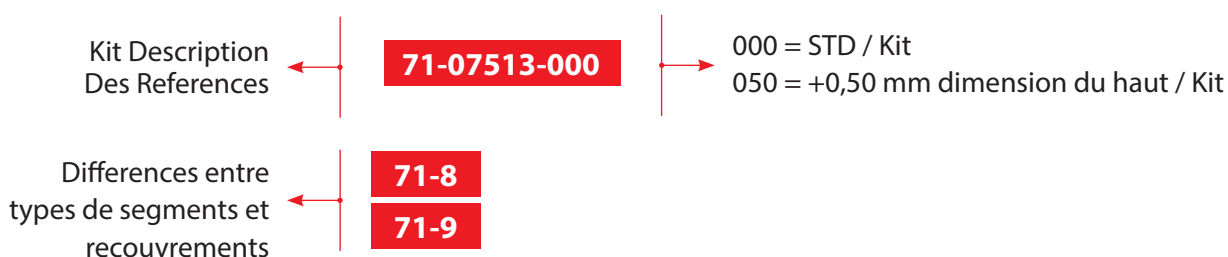
EXEMPLE



ANCIEN NUMERO DE REFERENCE	NOUVEAU NUMERO DE REFERENCE
5513 000	51-05513-000

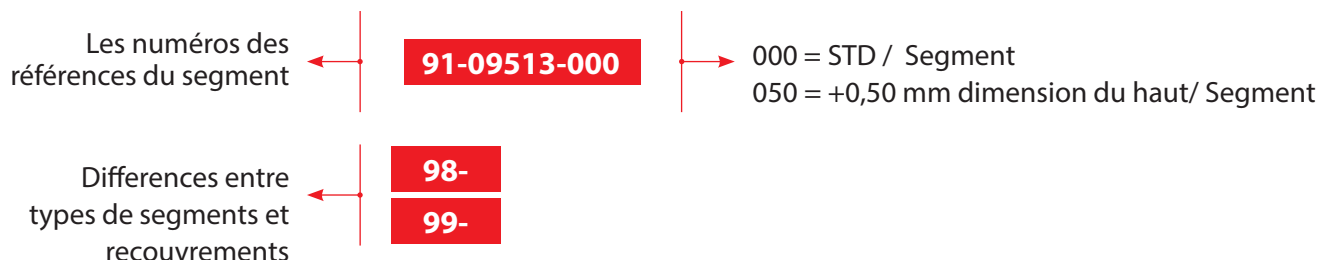
12 - KIT, SET, DESCRIPTION DES REFERENCES

Ensemble Kit : Piston + Segment + Chemise + Pim



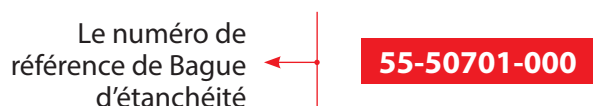
ANCIEN NUMERO DE REFERENCE	NOUVEAU NUMERO DE REFERENCE
7513 000	71-07513-000
7513 000-08	71-87513-000
7513 000-09	71-97513-000

13 - LES NUMEROS DES REFERENCES DES SEGMENTS



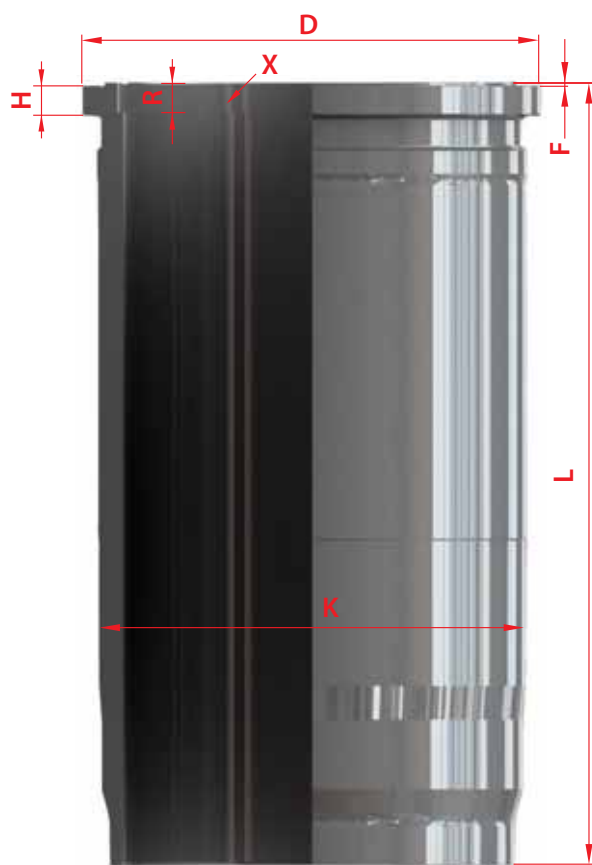
ANCIEN NUMERO DE REFERENCE	NOUVEAU NUMERO DE REFERENCE
9513 000	91-09513-000
9513 000-08	98-09513-000
9513 000-09	99-09513-000

14 - LE NUMÉRO DE RÉFÉRENCE DE BAGUE D'ÉTANCHÉITÉ



SPECIFICATIONS TECHNIQUES

DESCRIPTION TECHNIQUE CHEMISE DE CYLINDRE



- K = Diamètre extérieur
- L = Longueur total
- H = Hauteur de la bride
- F = Profondeur du joint d'étanchéité
- D = Diamètre de la bride
- X = Longueur du segment de la place d'institution
- R = Longueur de place d'institution

La description des chemises de cylindre d'après TSE 482:

Dans les moteurs à combustion interne, les chemises de cylindre sont des éléments de machine en forme de cylindre, dedans le piston bouge et le carburant brûle, celui-ci est accrochées au bloque du cylindre. On pourra les examiner en 2 parties.

Les chemises de cylindres humides:

Ce sont des chemises qu'on fait refroidir par dehors, dans le bloque où ils sont accrochés.

Il y a 3 groupes principaux:

a- Avec la Bride et canal: Ce sont les chemises qui s'assoit sur le bloque du cylindre par la bride du haut; et en bas il ya des canaux de joint d'étanchéité pour la pénétration de l'eau du refroidissement du moteur. (Figure-1)

b- Avec la bride et sans canal: Ce sont les chemises qui s'assoit au bloque du cylindre par la bride du dessus et en bas il n'y a pas de canaux de joint d'étanchéité. Les joint d'étanchéité de pénétration se trouvent aux canaux ouvertes dans le bloque. (Figure -2)

c- Avec deux brides: Ce sont les chemises de cylindres qui ne vont pas manquer l'eau du refroidissement du moteur au bloque du cylindre, du haut et du bas, elles sont détectées avec bride et joint d'étanchéité. (Figure-3)

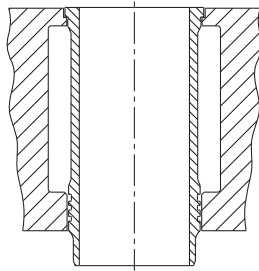


Figure - 1

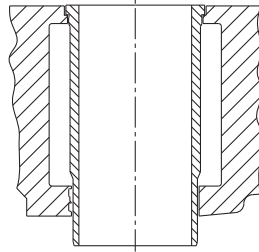


Figure - 2

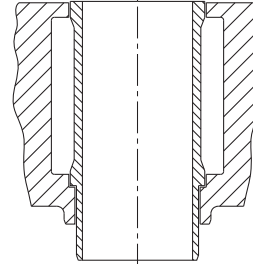


Figure - 3

Les Chemises de cylindre sèches:

Ce sont les chemises qui n'ont pas de contact avec l'eau de refroidissement au bloque de cylindre où ils sont accrochés.

On peut les analyser en 2 parties :

A- Avec la bride (Figure-4)

B- Sans bride-plate (Figure-5)

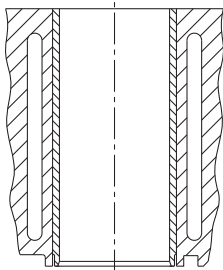


Figure - 4

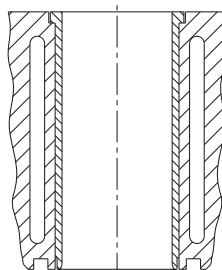


Figure - 5

QUESTIONS À ENVISAGER PENDANT L'INSTALLATION DES CHEMISES DE CYLINDRE

L'INSTRUCTION DE MONTAGE POUR LES CHEMISES SECHES DU CYLINDRE

Ces chemises sont fabriquées avec la bride et sans bride. (Figure -6) On ne voit pas de dislocation sur les chemises avec la bride par contre sur les chemises sans bride, qui sont sous de mauvaises conditions de travail; quand on accroche le piston, il ya des dislocations axiales qu'on constate plusieurs fois. C'est un avantage que la bride crée.

Les chemises avant d'être pressé dans le cylindre, il faut absolument roder, et meuler, en accord à dimensions nominales, qu'on voit dans la liste (A), convenable au diamètre extérieur de la chemise.

Il faut faire attention aux tolérances en bas. (Figure-7)

Sinon si la tension du devant est très basse, le transfert de chaleur ne sera pas bon, si la tension est très haute, il y aura des incompatibilités entre les chemises et les cylindres et ceci peut causer des fautes d'exploitation. Les chemises sèches qui ont des diamètres extérieurs finals, on les expédie 0,5-0,75 mm plus petit, par leur diamètre intérieur.

Quand on va assembler la chemise sèche avec la bride au bloque du cylindre à l'aide de la presse, pour empêcher que la bride ait une rupture, le trou qu'on a engravé pour la bride au bloque, faut l'engraver plus grande que le diamètre extérieur (C) de la bride.

SPECIFICATIONS TECHNIQUES

Les chemises sèches avec la bride, quand on passe avec la presse, il faut que la surface bas de la bride s'assoit très bien sur la surface des sièges du nid au bloque prés.

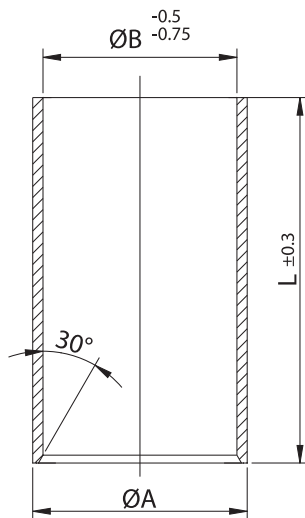


Figure - 6

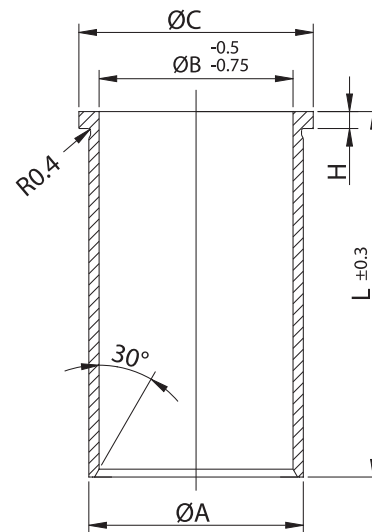


Figure - 7

Comme on le sait, les chemises la partie inférieure de la bride a un rayon d'environ 0,4 mm. Pendant l'assemblage de la chemise au bloque, pour empêcher que le rayon s'assoit, il faut donner un part de 1,0 mm au passage où la bride s'assoit. Sinon, la bride de la chemise peut couper.

Il faut nettoyer les cylindres au bloque du moteur avant d'assembler les nouvelles chemises et faut contrôler les dimensions précieusement. La rondeur et la forme de conique ne doit pas dépasser 0,025 mm. En faisant le honing, il faut essayer d'avoir une surface brillante et d'après le type du moteur, faut contrôler les valeurs de rugosité des surfaces. Il faut éviter d'avoir des surfaces lisses et très brillantes car cela va causer manque de lubrification.

Une pression de 3000-5000 kg suffit pour les chemises de cylindres sèches, pour appuyer avec la presse. Pendant le montage, si on va utiliser un matériel comme matériel de lubrification, par la suite cette matière roucoulera à cause de la chaleur et ce sera difficile pour le transfert de chaleur. Apres le montage fait avec la presse, des blocs-cylindres de broyage à partir des surfaces d'étanchéité doivent être pris avec meulage de surface.

S'il faut traiter la surface du joint d'étanchéité du bloque de cylindre, il faut traiter plus profondément la surface d'appui au nid de la bride. En plus il y a des chemises de cylindre ayant des diamètres extérieurs finis et des diamètres intérieurs précieusement blanchi.

Ces chemises se pressent dans la presse avec une petite part de honing et elles ont le honing en être pressant. .Le diamètre en tolérance de l'intérieur du cylindre est entre +0 ile +0.015 mm. Le diamètre en tolérance de l'extérieur de la chemise du cylindre est entre +0.012 ile 0.024 mm.

	Groupe de diamètre extérieur de la chemise		
	50 - 80	80 - 120	120 - 180
QA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
QC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

	Diamètre de trou du bloc (mm)		
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
QC ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25

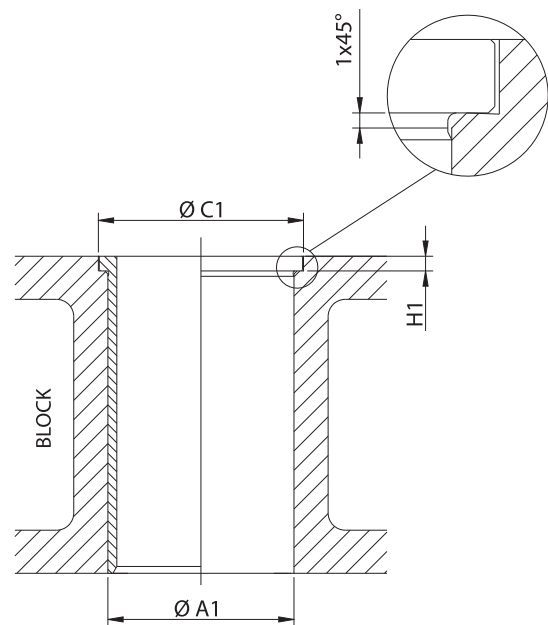


Figure 9

INSTRUCTION DE MONTAGE DE LA CHEMISE DE CYLINDRE AQUEUSE

Les chemises de cylindre du moteur de YENMAK se fabriquent, permettant d'obtenir un résistant caractéristique structure méthode de coulée centrifuge, contre l'abrasion et la traction. Une grande attention doit être accordée en sortant les anciennes chemises afin de ne pas endommager les surfaces du cylindre d'appui.

Il faut nettoyer la chaux la boue et d'autres contaminent soigneusement aux emplacements de contact de cylindre dans le bloc-moteur. Pendant le nettoyage il ne faut pas utiliser des outils comme grattoir et burin qui peut causé à se tracer. L'appareil le plus efficace pour ce processus est la brosse métallique en acier. Pour sortir les chemises stabilisées avec la couche de rouille chaux, on lance avec un marteau au morceau de coin qui est mis sur les chemises, malgré ce la si ce n'est pas possible de sortir les chemises alors on utilise presse hydraulique. En faisant le nettoyage on fait vraiment attention à la surface d'appui pour assurer qu'il n'y aura pas de dégât.

Le bride de la chemise, il faut qu'il soit parallèle à la surface au bloc de surface qui appuie la surface intérieure, comme montre la (Figure-10) qu'il ne doit pas montrer des diversités en concernant la régularité et la coplanarité. De plus, il faire le contrôle si l'axe de cylindre est droit (vertical) à la surface de joint du cylindre de bloc. (Figure -11) Un sujet aussi qu'on doit faire attention, les surfaces d'appui aux cylindres ne doit pas être détruites en écrasant. (Figure 12)

Le rayon qui est à la surface intérieure de la bride de la chemise (d) la surface d'appui de bride au cylindre, pour empêcher qu'il appuie à la côte(a), le diamètre de cylindre (c) au point de transition, il faut donner un rayon de 0.5-1.0 mm. 45°

SPECIFICATIONS TECHNIQUES

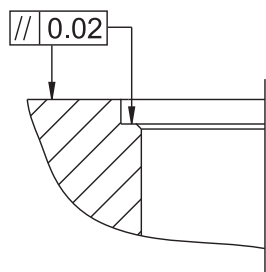


Figure 10

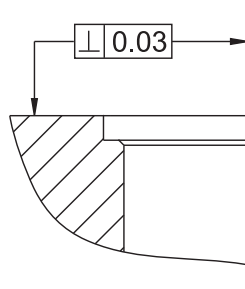


Figure 11

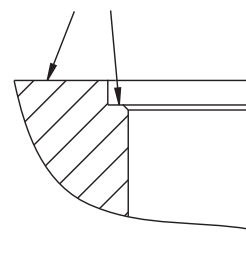


Figure 12

Il faut qu'il soit égale le diamètre du trou des joints (b) avec le diamètre extérieur de la chemise (c). Afin d'assurer une étanchéité complète de la chambre de combustion, il nécessite l'utilisation d'armature en métal.

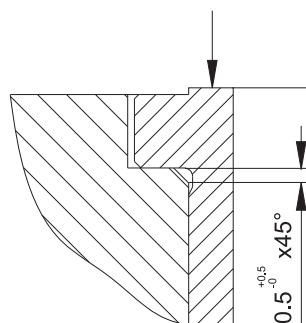


Figure 14

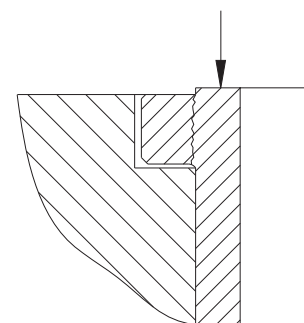


Figure 15

Pour relever si la chemise se fixe facilement ou pas et si le cylindre dans le bloc est trop grand et trop large ou pas, il faut enfoncer les chemises dans le cylindre avec la main sans utiliser le Ring avant le montage. Surtout pour relever si la position de bride de la chemise est correcte à la surface du bloc, en retournant les chemises avant le montage, il est recommandé de se fixer à la surface de bride par la bride. Comme on le sait, la bride est dans la partie qui ne se refroidit pas et va se dilater. Ici il faut prendre en compte une cavité spéculative de 0,3-0,5 mm.

Dans l'instruction de ce montage ce qui est souligné fortement, faut monter et démonter les chemises opportunément dans tous les cas. C'est à dire, lors de montage utilisation de marteau etc. équipes lourds n'est pas juste ; les erreurs peuvent produire de mauvais résultats.

Lors de montage, le ring caoutchoucs d'occasion doit être sûrement en qualité et doit être résistants au gonflement, au vieillissement, à l'huile et à la chaleur. Sinon il cause à arriver l'eau à la carter, à l'oppression de la chemise et à la déformation des dimensions. A chaque fois on met du savon pour la lubrification et les installe à leur nid.

Comme ring caoutchouc il faut seulement préférer les marques de qualité qui s'utilisent par les fabricant de moteur. La vraie raison pour cette préférence, c'est que les rings caoutchoucs soient résistants au gonflement, au vieillissement, à l'huile et à la chaleur.

Le grippage de piston qui cause des ruptures en chemise est le résultat d'utilisation du ring caoutchoucs inéligibles. Les parties où sont mis les rings caoutchoucs ne doivent jamais gagner.

Après avoir placé les chemises avec la main, c'est avantageux de refaire encore un contrôle de la mesure du cylindre. Ce contrôle doit se faire surtout au lieu où ça peut arriver l'ovalisation et le rétrécissement dans les parties où se trouvent les rings caoutchoucs.

Après avoir placé complètement les chemises, il faut comprimer le bloc de cylindre en remplaçant de l'eau et sûrement il faut faire le contrôle qu'il n'y a pas de fuite.




DETAIL DU MARQUAGE DE LA CHEMISE



BAGUE D'ÉTANCHÉITÉ

Bague d'étanchéité	
EPDM	Caoutchouc EPDM
NBR	Caoutchouc NBR
FPM / VI	FPM / FKM
Cu	Cuivre
T	Laiton Rouge
ST	Acier
SC / MVQ	Silicone (VMQ)
Shim / SM	Métal Doux



93,000		1	3	4	5	6	7					
4JB1		2	D	00	2005	>	00	2005	4 Cyl	2771cc	57kW	(78ps)
 <p>11-02385-000 8 CH 51,850 VD1 0,550 10 B- 19,500 BØ 43,900 12 TL 91,850 13</p> <p>15 31,00x76,00</p> <p>Isuzu ve Opel ile Ortak Motor 27</p>		<p>AP 14 YS HA CP</p> <p>91-09389-000 1 2,000 P 16 2 2,000 P 3 4,000 CrP 17</p> <p>1. Conta ile 1,50mm (+0,71/+0,77) 2. Conta ile 1,55mm (+0,77/+0,81) 3. Conta ile 1,60mm (+0,81/+0,87)</p> <p>Ø 93,000 18</p> <p>31-04385-000 19</p>		<p>99-09389-000 1 2,000 FeP 16 2 2,000 FeP 3 4,000 TeF</p> <p>39-04385-000</p>								
 <p>K=95,00 22 L=181,00 H=0,90 25 D=101,00 23</p> <p>DF-CR-ST 26</p> <p>51-35721-000 20</p> <p>71-08385-000 71-98385-000 21</p>		<p>WF 26</p> <p>O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00 28</p> <p>51-06067-000 20</p> <p>52-06067-000 20</p> <p>71-07152-000 72-07152-000 21</p>										
 <p>K=120,00 22 L=229,00 H+F=9,00+1,10 25 D=128,50 23</p> <p>WF 26</p>												

- 1 - Diamètre de piston
2 - Code de moteur
3 - Information de carburant
4 - Années de modèle
5 - Nombres de cylindres
6 - Volume de cylindre
7 - Puissance du moteur
8 - Piston Code
9 - CH: Stroke(Coup)
10 - VD1/VD2: Profondeur de soupape
11 - B- : Combustion Chamber Depth
B+ : Bombe de la tête du piston
12 - BØ: Diamètre de la cellule
13 - TL: Taille réelle
14 - Propriétés de piston
*DAP: Piston à double alfin
*AP: Piston à l'alfin
*YS: Piston refroidi par l'huile
*CP: Piston en tôle d'acier
*HA: Enduit anodisé hard
*PDB: Goupille-trou douillé
15- Diamètre de goupille - Taille- Propriété
16- Propriété de segment

- 17 - La Saillie de la tête de piston
18 - Diamètre de cylindre
19 - Piston + Code de Segment
20 - Code de chemise
21 - Code de Kits
22 - Diamètre extérieur du cylindre
23 - Diamètre de la bride de cylindre
24 - Taille réel de la chemise
25 - L'épaisseur de la facture de bride
26 - Modèles de chemise et propriétés
*WS: Revêtement humide semi-fini
*WF: Revêtement humide finition complète
*DS : Dry Liner semi-fini
*DF : Dry Liner finition complète
*AF : Air refroidi pleine finition
*PH : Phosphate
*CR : Chrome
*HR : Blindé
*NT : Nitrate
*HT : Traitement thermique
*STEEL: Acier
27 - Moteur commun
28 - Bague d'étanchéité Code

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اصطلاحات فنی بکار رفته	X
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YENMAK

قطعات موتور

ینماک، در سال ۱۹۶۵ به عنوان یک کارگاه کوچک توسط خانواده کاهوجی اغلو در شهر قونیه تاسیس شد. ینماک در طول سالها با به روز کردن و بهبود مستمر خود در زمینه تولید قطعات موتور به طور مستقل در بازار داخلی و جهانی جایگاه خود را به عنوان یکی از بزرگترین تامین کنندگان قطعات موتور بدست آورده است.

امروز کارخانه ینماک با تولید کیت، پیستون، گژن پین و بوش موتور سیلندر و با تامین و اشتر سر سیلندر، سوپاپ و یاتاقان موتور این محصولات را در ۵ قاره به بیش از ۸۰ کشور صادر می کند.

به عنوان یک همراه قدیمی برای مشتریان گرانقدر خود علاوه بر تهیه محصولات با کیفیت و قیمت مناسب و ارائه خدمات پس از فروش امکان تدارک تمامی قطعات موتور را بصورت یک بسته کامل نیز فراهم می کند. علاوه بر این ینماک به اهمیت افراد در تمامی اجزاء یک فعالیت واقف بوده و به روابط مشتریان بسیار اهمیت قائل می باشد.

ینماک دارای گواهینامه های INMETRO, ISO 9001, ISO / TS 16949, IATF 16949, ISO 14001 میباشد. امروز ینماک با دو کارخانه و یک مرکز اصلی و تدارکات حمل سفارشات در کل در مساحتی بالغ بر ۵۰۰۰۰ متر مربع در شهرکهای صنعتی شماره ۱، ۲ و ۳ قونیه فعالیت دارد. فعالیت فروش و بازاریابی در استانبول در دفتر صادرات ینماک صورت می گیرد.



ساختمان مرکزی و تدارکات و حمل



کارخانه پیستون و گژن پین



کارخانه بوش سیلندر موتور

YENMAK®

قطعات موتور



از سال ۲۰۰۳ محصولات ینماک بصورت ذیل بسته بندی شده و جایگاه خود را در بازار کسب کرده است. مشخصات و جزئیات اطلاعات موجود بر روی بسته بندی در ذیل ارائه شده است.



در سایه در پوشه‌های مخصوص اولین کسی باشید که به محصول دسترسی پیدا می‌کند.



شماره قابلیت ردیابی

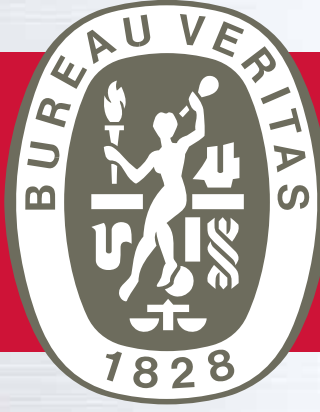


به منظور ایمنی و اطمینان برچسب هولوگرام سه بعدی بر روی جعبه بسته بندی محصول وجود دارد.



به منظور حفظ ایمنی محصول در پایین جعبه محصول برچسب ایمنی نصب شده است.

BUREAU VERITAS Certification



پیستون فولادی دوپارچه



پیستون فولادی دوپارچه : از دو قسمت سر پیستون که فولادی می باشد و قسمت پایین پیستون که آلومینیومی می باشد و توسط گزن پین به یکدیگر متصل بوده و یکپارچه حرکت می کنند، تشکیل شده است. دلیل مقاومت بالا و ساییدگی بسیار کم این نوع پیستون کارکرد موتور را در وسایط نقلیه سنگین دیزلی با میزان آلاینده خروجی کمتر در آگروز و در حد استاندارد فراهم می نماید.

پیستون فلزی دوپارچه :

در موتورهای با قابلیت تراکم بالا و محفظه احتراق مدرن موتورهای دیزلی سنگین در موتورهای با سیستم های سوخت چند گانه

مزایای پیستون فلزی دوپارچه:

پیستونهای دو پارچه فولادی نسبت به پیستونهای آلومینیومی در فاصله کم بین پیستون و بوش سیلندر تلفات ناشی از سایش را دلیل مقاومت سایشی بالا کاهش می دهند.

پیستون های فولادی دو پارچه نسبت به پیستونهای آلومینیومی بدلیل مقاومت گرمایی بالاتر ریسک تغییر شکل بوش سیلندر را کاهش داده و در فاصله کم با بوش سیلندر بخوبی کار می کند و عملکرد عایقی رینگها را نیز افزایش می دهد.

در حالی که یک پیستون آلومینیومی معمولی نهایتا تا فشار ۱۰۰ بار می تواند مقاومت نشان دهد، یک پیستون فولادی با همان ابعاد تا فشار ۲۵۰ بار قدرت مقاومت دارد.

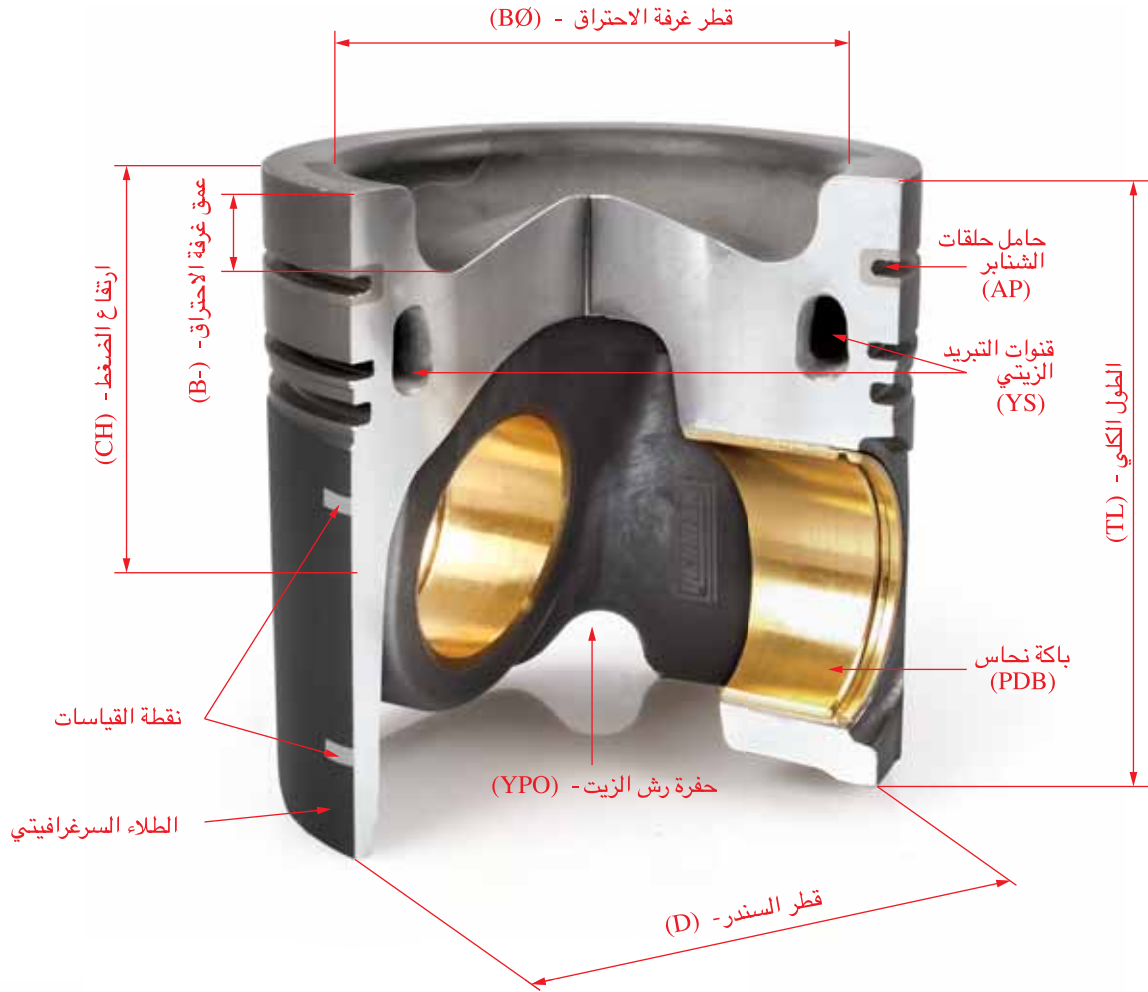
قابلیت تراکم موتور را افزایش می دهد و بمیزان ۲الی ۵ درصد میزان تولید گاز CO₂ را کاهش می دهد. آلفین (مقاوم شده با نیکل) بکار رفته در پیستونهای آلومینیومی موتورهای دیزلی مشکلات تماسی ناشی از مواد بکار رفته را کاهش می دهد.

پیستون های دارای کانال خنک کننده، باعث نزدیکتر شدن کانال خنک کننده به قسمت فوقانی پیستون شده و فرآیند خنک کاری را بهبود می بخشند.

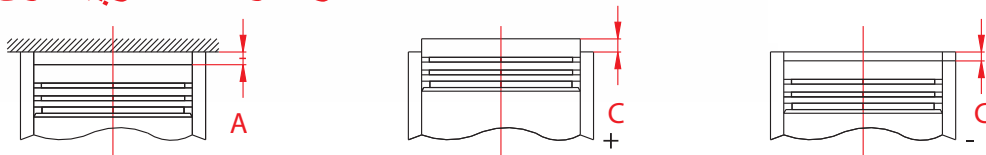
پیستون های فولادی دو پارچه باعث افزایش عمر موتور و کاهش هزینه های تعمیر موتور می شوند.

که در پیستون های دو در نتیجه ایراد در سیستم پاشش سوخت و تزریق بیش از اندازه سوخت احتمال ذوب پیستون وجود دارد تکه ای این احتمال از بین می رود

مشخصات فنی



اندازه فواصل در پیستون



A = فاصله تا سر سيلندر
 C = فاصله سر پیستون از سطح بلوک

دستور العمل مونتاژ رینگ پیستون ینماک

در صورت مونتاژ بر روی پیستون کار کرده ابتدا بایستی کانالهای رینگ از بقایای کربن تمیز شده و سوراخ های روغن کاری نیز تمیز شوند به استثنای قسمت تاج پیستون بقایای کربن موجود در تمامی قسمتها بایستی تمیز شود به تمیز بودن کانالهای رینگ بایستی بسیار دقت شود بهنگام تمیز کردن محل تقاطع سطوح عمودی و افقی بایستی بسیار دقت شود تا زدگی و خراش بوجود نیاید در غیر اینصورت این محلها بعدا به محل پیداش ترکها تبدیل می شوند نیاز به ماشینکاری در پیستون نمی باشد چرا که رینگهای ین ماک بر اساس پیستونهای موتورهای اورجینال طراحی شده اند حداکثر محدوده سائیدگی سیلندرهایی که رینگهای ین ماک در آنها استفاده می شود به شکل ذیل می باشد:

در موتورهای بنزینی حداکثر ۰،۱ میلی متر از قطر
در موتورهای دیزلی حداکثر ۰،۱۵ میلی متر از قطر

معمولا در پیستون های کار کرده حتی اگر میزان سایش موجود در محدوده ذکر شده بالا هم باشد بایستی پیستونهایی که در کانالهای رینگ آنها تغییر شکل بوجود آمده تعویض شوند چراکه در پیستونهایی که در کانال رینگ آنها توازی از بین رفته و تغییر شکل داده اند ، به اندازه بودن فاصله پیستون و سیلندر می تواند ما را به اشتباه بیاندازد چرا که رینگها در چنین پیستونهایی نمی توانند بدرستی عمل کنند و شکایتی نظیر روغن سوزی و بخار کردن بوجود می آورد
خم کردن رینگها ، پیچ و تاب دادن و امثال آن موجب ایجاد خرابی در سطح عملکرد و آسیب دیدن پوشش رینگ می شود اینگونه خرابیها که به چشم دیده نمی شوند موجب بروز مشکلات درحین کار کردن موتور می شوند.

رینگ را بایستی با استفاده از رینگ باز کن باز کرد و به ترتیب در کانالهای موجود در پیستون جای داد سپس با استفاده از جمع کن رینگ یا وسیله مونتاژ مخروطی شکل رینگ آنها را فشرده و با فشردن سر پیستون و در صورت لزوم با ضربه زدن آهسته، با استفاده از دسته چکش ، پیستون را داخل سیلندر قرار داد در حین انجام این کار بمنظور جلوگیری خروج رینگهای نازک از رینگ جمع کن و آسیب دیدن آنها بایستی رینگ جمع کن را بطریقی پیوسته روی بلوک ثابت نگه داریم برای بوش سیلندرهایی که پوشش داخلی آنها کروم می باشد نباید رینگ با پوشش کروم استفاده کرد.

رینگهایی که بر روی یک سطح آنها علامت YEN و یا TOP وجود دارد بایستی بطریقی در پیستون قرار گیرند که این نوشته ها رو به بالا یعنی بطرف محفظه احتراق باشند رینگهایی که بر روی آنها هیچگونه علامتی وجود ندارد در هر دو جهت قابل مونتاژ هستند.

روکش رینگ و عملیات روی سطح آنها

Cr = روکش کروم	Sn = روکش قلع
Mo = روکش مولیبدن	Ck = کروم سرامیک
P = روکش فسفات	Pvd = روکش رسوب فیزیکی بخار
Fe = روکش فررو اکسید	Cdc = روکش کروم الماس
Cu = روکش مس	Dlc = روکش کربن با پوشش الماس
Nt = روکش نیتريد	Tef = الطاء بالتفلون

روکش رینگ و عملیات سطح

روکش کروم سرامیک CK

روکش کروم و سرامیک CK، یک نوع روکش کامپوزیتی متشکل از شبکه تودرتوی عناصر کروم و اکسید آلومینیوم می باشد این نوع روکش ها بیشتر در روکش اولین رینگ از پیستونهای موتورهای دیزلی کاربرد دارند. روکش CK به دلیل استفاده از روش الکتروز عملکرد و کیفیت بالاتری را فراهم می کند.

تفاوت روکش CK با روکش کروم سخت

مقاومت سایشی بالاتر

نقطه ذوب بالاتر

دارای تنش شکست و سختی بالاتر

بدلیل این مزیتها موتورهایی که از رینگ با روکش CK استفاده می کنند دارای عمر بیشتر بوده و میزان آلاینده های کمتری تولید می کنند.

Pvd (روکش رسوب فیزیکی بخار)

روکشهای سخت را به شکل بخار طی واکنش تجزیه ای بر روی سطح رینگ می پوشانند که به این روش PVD گفته می شود بخار شدن و یونیزه شدن فلزات با استفاده از قوس الکتریکی و بمباران یونی بدین طریق صورت می گیرد

یونهای جدا شده و تنظیم شده فلز به سمت سطح جزء مورد نظر هدایت می شود در نتیجه اتمهای فلز با گازهای واکنشی واکنش داده و نیتريد، کاربید و اکسید تولید می کنند بعد از اتمام واکنش بر روی رینگ پوشش بوجود می آید در سایه وجود عناصر سرامیکی در پوشش، مقاومت سایشی و فرسایشی بالایی بوجود می آید.

Mo (روکش مولیبدن)

برای جلوگیری از سایش محوطه اطراف رینگ، رینگ با پوشش مولیبدن استفاده می شود. برای جلوگیری از اثرات سوختگی سطح عمل کننده رینگ با مولیبدن پوشش داده می شود و یا کل سطح پوشش داده می شود. پوشش مولیبدن هم بطریق اسپری با شعله و هم از طریق اسپری با پلاسما می تواند انجام گیرد مولیبدن با نقطه ذوب بالا (۲۶۲۰ درجه سانتی گراد)، ساختار منفذ دار و خاصیت روغنکاری سطح عمل کننده مقاومی برای رینگ پیستون فراهم می کند. هدایت گرمایی و مقاومت سایش اصطکاکی بالایی دارد.

Cr (روکش کروم)

جهت افزایش مقاومت رینگ یکی از روشهای متداول استفاده از روکش کروم سخت می باشد هدف از روکش کروم کاهش میزان سایش و افزایش عمر رینگ و بوش سیلندر می باشد کاهش ساییدگی رینگ و بوش سیلندر از طریق پوشش کروم بالاترین رینگ امکانپذیر می باشد امروزه نه تنها اولین رینگ بلکه تمایل به پوشش رینگهای دوم و بیشتر نیز با کروم وجود دارد به دلیل سطح سختی که پوشش کروم فراهم می کند سایش در خود رینگها نیز کاهش می یابد. پوشش کروم به دو شکل انجام می گیرد:

سخت

روکش کروم متخلخل

در روکش کروم سخت بعد از اینکه سطح رینگها با کروم پوشش داده شدند با سنگکاری شکل نهایی خود را پیدا می کنند رینگها بعلت دارا بودن پوشش متخلخل قابلیت نگه داشتن روغن در این حفرها را پیدا می کنند. و بدین ترتیب میزان سایش خود رینگ و سطح بوش سیلندر که با آن در تماس هستند را به حداقل می رسانند.

Nt (روکش نیترات)

با روکش نیتريد تمامی سطح رینگ سخت می شود با این روکش مقاومت سطح در مقابل سایش افزایش می یابد و عمر رینگ نیز افزایش می یابد روکش نیتريد به لحاظ ویژگیهای تولید و نشر گازهای آلاینده دوست طبیعت می باشد با استفاده از روکش نیتريد در عملکردهای حساس نتایج بسیار بهتری بدست می آید میزان روغن از دست رفته از قسمتهای حساس رینگ کاهش می یابد مقاومت در مقابل شکست رینگهای چدنی را افزایش می دهد و عمر موتور نیز افزایش می یابد.

Cdc (روکش کروم الماس)

این نوع پوشش در موتورهای Euro4 و دیزلی برای رینگ بالا بکار میروند در چدن های نرم و آلیاژی و فولادهای کربنی کاربرد دارد در این پوشش ذرات الماس بجای سرامیک جایگزین شده اند و بهمین دلیل مقاومت سایشی و اصطکاکی بالاتری دارند.

Dlc (روکش کربن با پوشش الماس) (روکش کربن با پوشش الماس)

در سایه این پوشش میزان سایش کم شده و مقاومت در مقابل ساییدگی کاهش می یابد. DLC دارای خواص پوششی دوستانه طبیعت می باشد دارای پیوندهای شیمیایی مستحکمی می باشد و تحت تنشهای مکانیکی نمی شکند. دارای ساختار کریستالی نمی باشد و بدون شکل می باشد. بدلیل ساختار ماده تشکیل دهنده خود دارای استحکام بالایی می باشد در مقایسه با سایر پوشش ها دارای مقاوت بیشتری بوده و استحکام سایشی بالاتری دارد.

مشخصات فنی

D = رینگ مستطیلی		TI-IFU = رینگ گوه ای دو طرفه مخروطی با پخ سطح پایینی لبه داخلی	
D-IF = رینگ مستطیلی با پخ سطح بالایی لبه داخلی		TK-IW = رینگ گوه ای دو طرفه مخروطی با سطح بالایی پلکانی لبه داخلی	
D-IFU = رینگ مستطیلی با پخ سطح پایینی لبه داخلی		TK-IWU = رینگ گوه ای دو طرفه مخروطی با سطح پایینی پلکانی لبه داخلی	
D-IW = رینگ مستطیلی با سطح بالایی پلکانی لبه داخلی		N = رینگ خاردار	
D-IWU = رینگ مستطیلی با سطح پایینی پلکانی لبه داخلی		N-IF = رینگ خاردار با پخ سطح بالایی لبه داخلی	
K = رینگ مخروطی		N-IFU = رینگ خاردار با پخ سطح پایینی لبه داخلی	
K-IF = رینگ مخروطی با پخ سطح بالایی لبه داخلی		N-IW = رینگ خاردار با سطح بالایی پلکانی لبه داخلی	
K-IFU = رینگ مخروطی با پخ سطح پایینی لبه داخلی		N-IWU = رینگ خاردار با سطح پایینی پلکانی لبه داخلی	
K-IW = رینگ مخروطی با سطح بالایی پلکانی لبه داخلی		TN = رینگ خاردار مخروطی	
K-IWU = رینگ مخروطی با سطح پایینی پلکانی لبه داخلی		TN-IF = رینگ خاردار مخروطی با پخ سطح بالایی لبه داخلی	
TT = رینگ گوه ای یک طرفه		TN-IFU = رینگ خاردار مخروطی با پخ سطح پایینی لبه داخلی	
TT-IF = رینگ گوه ای یک طرفه با پخ سطح بالایی لبه داخلی		TN-IW = رینگ خاردار مخروطی با سطح بالایی پلکانی لبه داخلی	
TT-IFU = رینگ گوه ای یک طرفه با پخ سطح پایینی لبه داخلی		TN-IWU = رینگ خاردار مخروطی با سطح پایینی پلکانی لبه داخلی	
TT-IW = رینگ گوه ای یک طرفه با سطح بالایی پلکانی لبه داخلی		SC = رینگ شیاردار کنترل روغن	
TT-IWU = رینگ گوه ای یک طرفه با سطح پایینی پلکانی لبه داخلی		DC = رینگ کنترل روغن با لبه پخدار	
T = رینگ گوه ای دو طرفه		DB = رینگ کنترل روغن با دو لبه پخدار	
T-IF = رینگ گوه ای دو طرفه با پخ سطح بالایی لبه داخلی		ES = رینگ شیاردار با فنر ورقه ای کنترل روغن	
T-IFU = رینگ گوه ای دو طرفه با پخ سطح پایینی لبه داخلی		SY = رینگ شیاردار با فنر مارپیچی کنترل روغن	
T-IW = رینگ گوه ای دو طرفه با سطح بالایی پلکانی لبه داخلی		DY = رینگ با فنر مارپیچی و با لبه پخدار کنترل روغن	
T-IWU = رینگ گوه ای دو طرفه با سطح پایینی پلکانی لبه داخلی		PS = رینگ با فنر مارپیچی و با لبه های پخدار کنترل روغن	
TK = رینگ گوه ای دو طرفه مخروطی		VF = رینگ کنترل روغن با ریلهای فولادی فنر بندی VF	
TK-IF = رینگ گوه ای دو طرفه مخروطی با پخ سطح بالایی لبه داخلی		UB = رینگ کنترل روغن با ریلهای فولادی فنر بندی U	
SDR = رینگ کنترل روغن فولادی با کانال نوع V و فنرهای مارپیچی		SDV = رینگ فدری مارپیچی کنترل روغن، دارای کانال فلزی به شکل V	
X = ضخامت رینگ (میلی متر)		DKS = شنبر التحکم بالتزیت حافظه علی شکل انحراف استقامی	

راهنمای کلی مونتاژ پیستون

۱. در داخل سیلندری که قرار است پیستون مونتاژ شود بایستی خطوط هونینگ لوزی شکل وجود داشته باشد شاید پیستون آماده شده جهت مونتاژ بر روی سیلندر استفاده شده و یا ساییده شده بکار خواهد رفت در این صورت بایستی مناسب بودن خطوط هونینگ درون سیلندر کنترل شود در صورتیکه خطوط هونینگ داخل سیلندر کاملاً و یا قسمتی از بین رفته و سطح برآقی بوجود آمده باشد بایستی عمل هونینگ جهت ایجاد این خطوط انجام گیرد.

۲. تمامی پیستونها به نحوی تولید می شوند که وقتی در داخل یک سیلندر، که بصورت صحیح عمل هونینگ بر روی آن اعمال گردیده، مونتاژ شوند فاصله صحیح بین پیستون و سیلندر جهت عملکرد درست آنها را فراهم می کند بایستی قطر داخلی سیلندر اندازه گیری شود و با مشخصات نوشته شده روی قوطی مقایسه شود تا در صورت نیاز ماشین کاری مورد نیاز بر روی سیلندر بمنظور تنظیم قطر داخلی آن صورت گیرد در صورتیکه نیاز به ماشینکاری سیلندر کار کرده وجود داشته باشد بایستی در محدوده تolerانس $0/000$ ماشینکاری گردند.

۳. زمانی که پیستون جهت مونتاژ آماده شد بایستی گژن پین به شکلی که به پیستون و گژن پین آسیب نیاید از پیستون جدا شود گژن پین هر پیستون متناسب با اندازه های آن پیستون انتخاب و نصب شده است و نباید بشکل تصادفی گژن پینی روی پیستون نصب کرد.

۴. موقع نصب رینگ بر روی پیستون بایستی از ابزار مناسب نصب رینگ استفاده کرد تا به پیستون و رینگ آسیب وارد نشود. موقع نصب پیستون داخل سیلندر بایستی از رینگ جمع کن و یا محفظه مخروطی مونتاژ استفاده کرد. بعد از اینکه رینگها بروش صحیح فشرده شدند پیستون بایستی با نیروی دست و به آرامی داخل سیلندر قرار گیرد و نباید نیروی بیش از اندازه وارد کرد و یا ضربه زد.

۵. قبل از نصب پیستون داخل سیلندر بایستی پیستون بدقت تمیز شود بخصوص محل سوراخ گژن پین تمیز شده و روغن کاری شود بدین منظور برای اینکه در ابتدای شروع کار پیستون و سیلندر تا شروع روغن کاری آسیب نبینند موقع مونتاژ بایستی پیستون و سیلندر روغن کاری شوند.

۶. در صورتیکه در قسمت سر پیستون علامت جهت مونتاژ وجود داشته باشد با یستی موقع نصب این علامت در نظر گرفته شود و بر اساس آن مونتاژ صورت گیرد.

۷. برای آسیب ندیدن پیستون، گژن پین و رینگ بایستی حداکثر دقت عمل را بکار برد

۸. پیستون ها با در نظر گرفتن قواعد و استانداردهای کلی جهت عملکرد صحیح با سایر قطعات موتور تولید می شوند بدین دلیل بعداً بایستی تغییری در آنها ایجاد شود.

۹. گژن پین و گیره نگهدارنده آن را فقط یکبار می توان استفاده کرد و قابل استفاده مجدد نمی باشند و بایستی تعویض شوند.

۱۰. موقع مونتاژ بایستی عمود بودن شاتون پیستون جهت پیشگیری از مشکلات جدی بایستی صورت گیرد. عمود بودن شاتون پیستون قبل از مونتاژ بایستی با تجهیزات مناسب بررسی گردد.

وقت: در حین مونتاژ باید به دستورالعملهای فوق دقت شود. تولید کننده مسئولیت هرگونه مشکلات ناشی از مونتاژ نادرست را بر عهده نمی گیرد.

۸ برچسب زنی و شماره گذاری پیستون



۹ شماره مرجع پیستون

مثال

شماره مرجع پیستون	11-01513-000	<p>رینگ پیستون استاندارد = 000</p> <p>ارتفاع تراکم به اندازه 0.20 میلی متر کوتاهتر از استاندارد = 001</p> <p>ارتفاع تراکم به اندازه 0.40 میلی متر کوتاهتر از استاندارد = 002</p> <p>ارتفاع تراکم به اندازه 0.60 میلی متر کوتاهتر از استاندارد = 003</p> <p>رینگ پیستون به میزان 0.50 میلیمتر بزرگتر از استاندارد = 050</p>
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کد فنی قدیمی	کد فنی جدید
1513 000	11-01513-000

۱۰ شماره مرجع رینگ + پیستون

مثال

شماره مرجع رینگ + پیستون	31-03513-000	<p>رینگ + پیستون / استاندارد = 000</p> <p>به میزان 0,50+ میلیمتر بزرگتر از استاندارد = 050</p> <p>رینگ + پیستون /</p>
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کد فنی قدیمی	کد فنی جدید
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

مختلف پوششهای تفاوت و رینگ نوع

38-

39-

۱۱ توضیحات شماره مرجع بوش سیلندر

مثال

بوش سیلندر / استاندارد = 000
به میزان +0,50 میلیمتر بزرگتر از استاندارد = 050
بوش سیلندر /

شماره مرجع بوش سیلندر ← **51-05513-000** →

کد فنی قدیمی	کد فنی جدید
5513 000	51-05513-000

۱۲ توضیحات کد مرجع کیتها و ستها

رقم الکیٹ بیستون + بنز + شنبر + قمیص

رینگ / کیت = 000
کیت استاندارد از خارج اندازه = 0.50
رینگ / به میزان 0.50

ارقام التعرف لاطقم الکیٹات ← **71-07513-000** →

شکل الشنبر ونوعیة الطلاء المختلفة

71-8
71-9

کد فنی قدیمی	کد فنی جدید
7513 000	71-07513-000
7513 000-08	71-87513-000
7513 000-09	71-97513-000

۱۳ شماره مرجع رینگ

رینگ / استاندارد = 000
میلیمتر بزرگتر از استاندارد = 0.50
رینگ / به میزان 0.50

شماره مرجع رینگ ← **91-09513-000** →

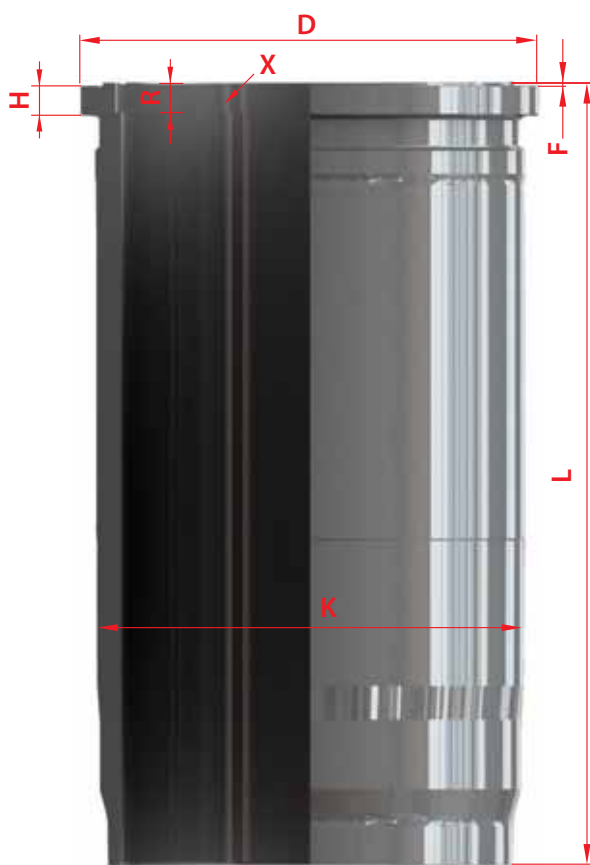
شکل الشنبر ونوعیة الطلاء المختلفة

98-
99-

کد فنی قدیمی	کد فنی جدید
9513 000	91-09513-000
9513 000-08	98-09513-000
9513 000-09	99-09513-000

۱۴ شماره فنی اورینگ

شماره فنی اورینگ ← **55-50701-000**



- K = قطر خارجی
- L = طول کل
- H = طول فلانچ
- F = ضخامت واشر سر سیلندر
- D = قطر فلانچ
- X = ارتفاع رینگ احتراق
- R = ارتفاع منطقه احتراق

تعریف بوش سیلندر بر اساس TSE482:

در موتورهای احتراق داخلی قطعه از چدن ریخته شده می باشد که داخل بلوک سیلندر قرار می گیرد و محفظه حرکت پیستون و محل انجام احتراق می باشد. بوش سیلندر موتورها شامل دو گروه می شوند. بوش سیلندر های تر:

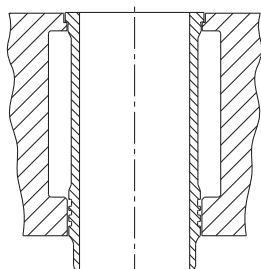
بوش هایی هستند که داخل بلوک سیلندر از اطراف بوسیله آب خنکاری می شوند. شامل سه گروه اصلی می شوند:

الف دارای کانال و فلانچ:

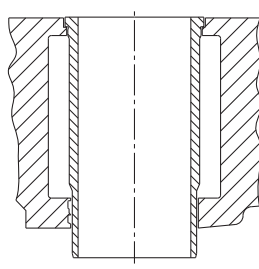
در این نوع، بوش سیلندر از بالا از طریق فلانچ بر روی بلوک سیلندر قرار می گیرد و از پایین برای جلوگیری از نشت آب خنک کاری به داخل بوش سیلندر کانالهایی جهت قرار گرفتن اورینگ جود دارد. (شکل ۱)

ب بدون کانال فلانچ دار
در این نوع، بوش سیلندر از بالا از طریق فلانچ خود بر روی بلوک سیلندر قرار می گیرد و در قسمت پایین این نوع بوش سیلندر کانال اورینگ وجود ندارد. کانالهای عایق بندی اورینگ در این نوع موتورها بر روی سیلندر قرار دارد. (شکل ۲)

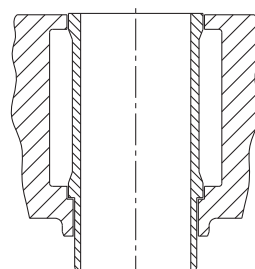
ج دارای دو فلانچ
در این نوع، بوش سیلندر از بالا و پایین دارای فلانچ و کانال جهت قرار گرفتن بوش می باشد. (شکل ۳)



شکل ۱



شکل ۲



شکل ۳

بوش سیلندر خشک

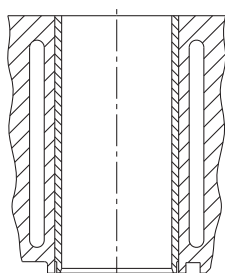
بوش سیلندرهایی که وقتی داخل بلوک سیلندر قرار می گیرند به طور

مستقیم با آب خنک کاری در تماس نمی باشند

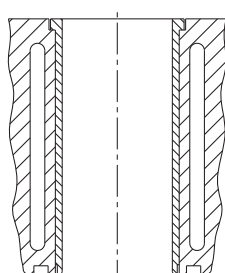
دارای دو نوع اصلی می باشند

الف فلانچ دار (شکل ۴)

ب بدون فلانچ (شکل ۵)



شکل ۴



شکل ۵

مواردی که بایستی در مونتاژ بوش سیلندرها رعایت شود

دستورالعمل مونتاژ بوش سیلندرهای خشک:

سیلندرهای خشک بصورت فلانچ دار و بدون فلانچ تولید می شوند. (شکل ۶) در شرایط کارکرد نامناسب در

موتورهایی که پیستون داخل بوش سیلندر بدون فلانچ نصب می شود لغزشهایی در راستای محور مشاهده می

شود که چنین مشکلی در بوش سیلندرهای فلانچ دار بوجود نمی آید که این از مزایای فلانچ می باشد

قبل از پرس شدن بوش سیلندر داخل سیلندر بایستی به اندازه های قطر بوش سیلندرها که در لیست نشان داده

شده در پایین آمده است (آ) ، دقت شود و بر اساس قطر اسمی داده شده، در داخل سیلندر سنگ کاری یا

ماشینکاری حساس و هونینگ صورت گیرد

بایستی به تلرانس های ذکر شده در پایین دقت شود. (شکل ۷) در غیر اینصورت اگر میزان پیش تنیدگی

خیلی کم باشد انتقال گرما بشکل صحیحی صورت نخواهد گرفت و اگر میزان پیش تنیدگی خیلی بالا باشد در

بوش سیلندرهایی که دارای جداره خیلی نازک می باشند باعث بوجود آوردن عدم تناسب با سیلندر و بوجود

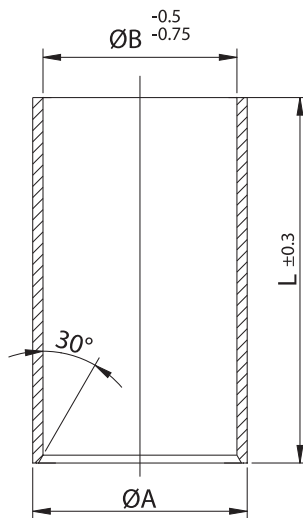
آمدن مشکلات در عملکرد می شود در سیلندرهای خشکی که قطر خارجی آنها به اندازه مقدار نهایی آن

ماشینکاری شده اند قطر داخلی آنها به $0/5$ تا $0/75$ میلیمتر کوچکتر از انداز نهایی ماشینکاری می شود

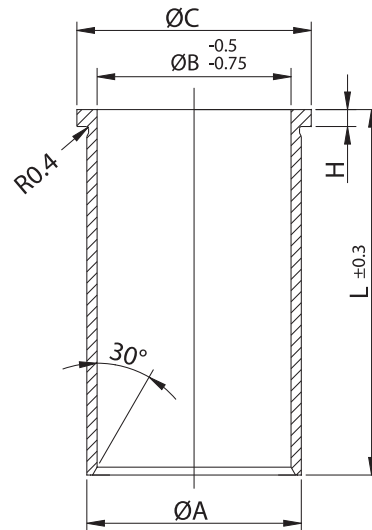
موقع مونتاژ بررسی بوش سیلندر در داخل سیلندر، بمنظور آسیب ندیدن فلانچ بوش، بایستی قطر محل قرار

گرفتن فلانچ در سیلندر کمی بزرگتر از قطر خارجی فلانچ (C) باشد

در بوش سیلندرهای خشک فلانچ دار سطح پایین فلانچ بایستی به طور صحیح در محل خود در سیلندر قرار بگیرد.



شکل ۶



شکل ۷

همانطور که می دانیم فلانچ در قسمت پایین دارای رادیوسی به قطر ۰/۴ می باشد که برای جلوگیری از نشستن این انحنا بر روی سیلندر، در محل تماس فلانچ و سیلندر، در گوشه محل تماس بر روی سیلندر پخی به اندازه ۱ میلیمتر داده می شود. در غیر اینصورت شکستن فلانچ بوش سیلندر اجتناب ناپذیر است.

قبل از مونتاژ بوش سیلندر جدید بایستی بلوک سیلندر به دقت تمیز شده و اندازه های آن کنترل شود. در صورت مخروطی یا بیضوی شدن بلوک این مقدار نباید از ۰/۰۲۵ تجاوز کند. بعد از مرحله هونینگ

بایستی به یک سطح براق دست یافت و بسته به نوع موتور بایستی میزان صافی سطح کنترل شود سطح های بسیار صاف و براق باعث عدم روغنکاری مناسب شده و بایستی اجتناب گردند

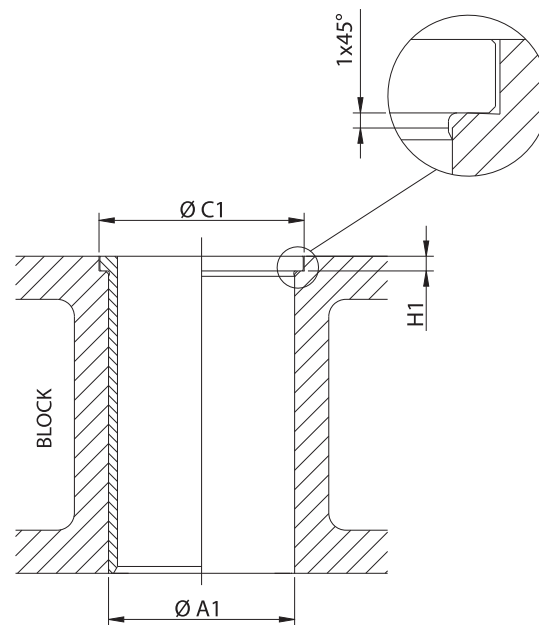
برای پرس بوش سیلندرهای خشک فشاری به اندازه ۵۰۰۰ تا ۳۰۰۰ کیلوگرم کافی است در طی مراحل مونتاژ اگر ماده ای که برای روغن کاری بکار می رود غلیظ باشد در اثر گرما این ماده دچار فرآیند ککسازي شده و در انتقال گرما دچار مشکل می شود. بعد از مونتاژ از طریق پرس، سنگ زنی سطحی از بلوک سیلندر که بوش سر سیلندر قرار خواهد گرفت بایستی بوسیله سنگ زن سطح صورت گیرد.

در صورتیکه سطحی از بلوک سیلندر که بوش سر سیلندر آنجا قرار میگیرد نیاز به ماشینکاری داشته باشد متناسب با آن بایستی محلی که فلانچ بوش سیلندر در آن قرار می گیرد به عمق بیشتری ماشینکاری شود علاوه بر اینها بوش سیلندرهایی که قطر داخلی آنها به اندازه نهایی ماشینکاری شده و قطر داخلی نیز به شکل کاملا حساسی تراشکاری شده نیز موجود می باشد.

در این نوع بوش سیلندرها ضخامت بسیار کمی جهت عمل هونینگ در نظر گرفته شده که بعد از مونتاژ بررسی در داخل سیلندر عمل هونینگ بر روی آنها انجام می گیرد میزان تolerانس قطر داخلی سیلندر از اندازه اسمی آن بین ۰ و ۰/۰۱۵ میلی متر است میزان تolerانس قطر بیرونی بوش سیلندر از اندازه اسمی بین ۰/۰۱۲ + و ۰/۰۲۴ میلی متر می باشد.

گروه بندی قطر خارجی بوش سیلندر			
	50 - 80	80 - 120	120 - 180
QA	+0.03	+0.04	+0.05
	+0.04	+0.06	+0.07
H	+0.2	+0.2	+0.2
	-0	-0	-0
QC	-0.06	-0.06	-0.06
	-0.10	-0.10	-0.10

قطر سوراخهای بلوک سیلندر (میلیمتر)			
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0	+0	+0
	-0.15	-0.15	-0.15
QC ₁	+0.10	+0.10	+0.10
	+0.25	+0.25	+0.25



شکل ۹

دستور العمل مونتاژ بوش سیلندر های تر

بین ماک برای بدست آوردن مقاومت لازم در مقابل ساییدگی و تغییر شکل از روش ریخته گری گریز از مرکز برای تولید بوش سیلندر های خوداستفاده می کنند. برای جلوگیری از وارد آمدن هرگونه خسارت به سطوح تماس سیلندر موقع خارج کردن بوش سیلندر قدیمی بایستی بسیار دقت شود.

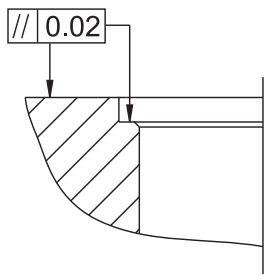
در بلوک سیلندر محل های تماس بایستی بدقت از بقایای گل، زنگ و سایر آلودگیها تمییز شود. بهنگام تمییزکاری هرگونه وسیله مانند سمباده یا چکش که موجب ایجاد خراش می شود نبایستی استفاده شود. بهترین وسیله برای اینکار فرچه با سیمهای فولادی است. در صورتیکه بوش سیلندر در نتیجه زنگ زدگی و رسوب به بلوک محکم چسبیده باشد با گذاشتن تخته پارچه روی آن و وارد کردن ضربات با استفاده از چکش آنرا جدا می کنیم. اگر با این وجود جدا نشد بایستی از پرس هیدرولیکی استفاده نمود. بهنگام تمییزکاری بایستی نهایت دقت صورت گیرد تا از آسیب دیدن سطوح تماس جلوگیری شود.

سطح پایینی فلانچ بوش سیلندر بایستی کاملاً موازی با سطح بلوک باشد. همانطور که در (شکل ۱۰) نشان داده شده است از لحاظ صافی و مسطح بودن نباید تفاوتی داشته باشند. از طرفی بایستی عمود بودن محور سیلندر بر سطحی از سیلندر که بوش سر سیلندر قرار می گیرد نیز کنترل شود. (شکل ۱۱) نکته ای که همواره باید به آن دقت شود این است که سطوح تماسی در سیلندر نباید با له کردن تخریب شوند. (شکل ۱۲)

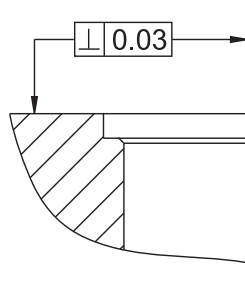
برای جلوگیری از برخورد رادیوس موجود در قسمت پایین فلانچ بوش سیلندر (د) با سیلندر در نقطه (آ) در محل تغییر زاویه سیلندر پخی به اندازه ۱/۰ - ۱/۵ میلی متر به شعاع ۴۵ درجه داده می شود.

برای جلوگیری از احتمال شکست بایستی نیروی آبندی و نیروی عکس العمل بصورت نزولی مقابل یکدیگر باشند.

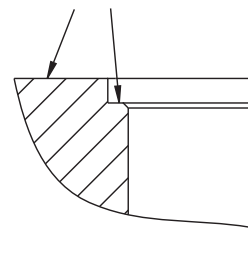
مشخصات فنی



شکل ۱۰

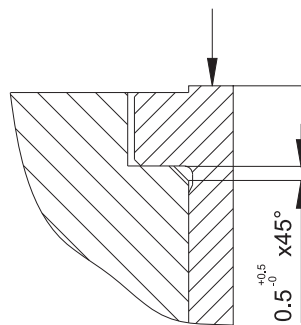


شکل ۱۱

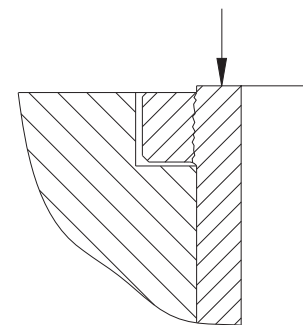


شکل ۱۲

قطر سوراخ واشر سر سیلندر (ب)
با قطر خارجی بوش سیلندر (ج)
باید یکسان باشد به منظور حصول
اطمینان از آب بندی کامل محفظه ی
احتراق استفاده از واشرهایی با قالب
فلزی الزامی می باشد.



شکل ۱۴



شکل ۱۵

بزرگ یا کوچک بودن سیلندر یا بوش را بتوانیم بسنجیم برای اینکه از مناسب بودن اندازه بوش برای سیلندر مورد نظر مطمئن شویم و قبل از مونتاژ بوش داخل سیلندر آن را بصورت دستی و بدون اورینگ داخل بلوک سیلندر قرار میدهیم .

بخصوص برای بررسی قرار گرفتن صحیح فلانچ بوش سیلندر در جایگاه خود در بلوک سیلندر، قبل از مونتاژ بوش سیلندر را به حالت معکوس در آورده و در محل قرار گرفتن فلانچ در سیلندر قرار می گیرد. همانطور که می دانیم فلانچ در قسمتی از موتور که عمل خنک کاری در آن صورت نمی گیرد قرار دارد. در اینجا فضایی به اندازه ۰/۳ تا ۰/۵ میلی متر مورد نظر می باشد.

آنچه که در این راهنمای مونتاژ در هر فرصت بر روی آن تاکید می شود این است که عمل خارج کردن و جایگذاری بوش سیلندر باستانی بطور صحیح انجام شود یعنی در هنگام مونتاژ استفاده از وسایلی مانند چکش و سایر ابزارالات سنگین که باعث بوجود آمدن اشتباهات جبران ناپذیری می شود مجاز نمی باشد.

رینگهای لاستیکی که در حین مونتاژ بکار می روند بایستی دارای کیفیت خوب بوده و در مقابل ورم کردن، استهلاک، گرما و روغن مقاوم باشند در غیر اینصورت موجب نفوذ آب به داخل کارتر شده و باعث گیر کردن بوش سیلندر و تغییر ابعاد می شود هر بار به رینگهای لاستیکی صابون روغنکاری مالیده شده و در کانالهایشان قرار می گیرند.

رینگهای لاستیکی فقط از برندهای با کیفیت که سازندگان موتور استفاده می کنند بایستی مورد استفاده قرار گیرد علت این ترجیح نیز الزامی بودن مقاومت رینگهای لاستیکی در مقابل تورم، استهلاک، روغن و گرما می باشد.

گیر کردن و ساییدگی پیستون در داخل بوش سیلندر از نتایج استفاده از رینگ لاستیکی نامناسب می باشد کانالهای رینگهای لاستیکی نباید کنده شود.

جدا شدن بوش که در نتیجه موجب گیرپاژ پیستون می شود به دلیل استفاده از اورینگ نامناسب می باشد کانالهای محل قرار گیری اورینگها بایستی کنده شود

بعد از اینکه بوش سیلندر ها در جای خود قرار گرفتند بلوک سیلندر بایستی با آب پر شده و وضعیت نفوذ آب حتما بایستی بررسی شود.




جزئیات برجسب زنی بوش سیلندر



اورینگ

EPDM	لاستیکی EPDM
NBR	لاستیک NBR
FPM / VI	وایتون
Cu	مسی
T	لاستیک تومباک
ST	فولادی
SC / MVQ	سیلیکونی
Shim / SM	فلز نرم



93,000 1		3		4		5		6		7	
4JB1 2		D 00 2005 > 00 2005 4 Cyl 2771cc 57kW (78ps)									
 <p>11-02385-000 8 CH 51,850 VD1 0,550 10 B- 19,500 BØ 43,900 12 TL 91,850 13</p> <p>15 31,00x76,00</p> <p>Isuzu ve Opel ile Ortak Motor 27</p>		<p>AP 14 YS HA CP</p> <p>91-09389-000 1 2,000 P 16 2 2,000 P 3 4,000 CrP</p> <p>1. Conta ile 1,50mm (+0,71/+0,77) 2. Conta ile 1,55mm (+0,77/+0,81) 3. Conta ile 1,60mm (+0,81/+0,87) 17</p> <p>Ø 93,000 18</p> <p>31-04385-000 19</p>		<p>99-09389-000 1 2,000 FeP 16 2 2,000 FeP 3 4,000 TeF</p> <p>39-04385-000</p>							
 <p>K=95,00 22 L=181,00 H=0,90 25 D=101,00 23</p>		DF-CR-ST 26				51-35721-000 20		71-08385-000 71-98385-000 21			
 <p>K=120,00 22 L=229,00 H+F=9,00+1,10 25 D=128,50 23</p>		WF 26				O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00 28		51-06067-000 52-06067-000 20		71-07152-000 72-07152-000 21	

- ۱۵- قطر بین طول ویژگیها
۱۶- ویژگی های رینگ
۱۷- برآمدگی سر پیستون
۱۸- قطر سیلندر
۱۹- کد رینگ+ پیستون
۲۰- کد بوش سیلندر
۲۱- کد کیت
۲۲- قطربیرونی سیلندر
۲۳- قطر فلنج بوش سیلندر
۲۴- طول کلی بوش سیلندر
۲۵- ضخامت فلانچ
۲۶- مشخصات بوش
- WS بطانة الرطب الانتهاء من شبه
WF بطانة الرطب الانتهاء الكامل
DS بطانة جافة الانتهاء من شبه
DF بطانة جافة النهاية الكامل
AF تبريد الهواء النهاية الكامل
PH فوسفات
CR کروم
HR تصلب
NT النتريت
HT المعالجة الحرارية
STEEL فولاذ
- ۲۷- المحرك المشترك
۲۸- کد اورینگ
- ۱- قطر پیستون
۲- کد موتور
۳- اطلاعات سوخت
۴- سالهای مدل
۵- تعداد سیلندر
۶- حجم سیلندر
۷- قدرت موتور
۸- کد پیستون
۹- استرک(زمانه): CH
۱۰- عمق سوپاپ: VD1/VD2
۱۱- احتراق محفظه عمق B-
B+ تاج انحنای
۱۲- قطر محفظه: BØ
۱۳- طول کلی: TL
۱۴- ویژگی های پیستون
DAP: پیستون با دو آلفین
AP: پیستون آلفین دار
YS: پیستون دارای کانال خنک کننده روغن
CP: پیستون دارای ورق فولادی
HA: روکش هارد آنودایز
PDB: سوراخ بین بوشدار

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Yenmak, fue creada en 1965 por la familia Kahvecioglu en la ciudad de Konya, en un taller pequeño. Con los años YENMAK que siempre se ha ido avanzando y renovándose, se convirtió en uno de los grandes proveedores de piezas de motor dentro y fuera de país.

Hoy en día Yenmak produce KIT, PISTÓN, PASADOR DE PISTÓN, SEGMENTO y CAMISA DE MOTOR SILINDRO; y exporta a más de 80 países en 5 continentes las piezas como JUNTA, VALVULA y BANCADA DE MOTOR.

A nuestros valiosos clientes y nuestros socios a largo plazo, aseguramos de dar la mejor calidad y precio razonable, así como las ventas y servicios de post-venta de una sola fuente. En un solo paquete, nos aseguramos de suministrar todas las piezas del motor. Proveemos las todas las piezas de motor que se encuentran en nuestro portafolio de productos, de única fuente, dentro de un paquete. Además de esto, YENMAK que considera el factor humano como lo más importante, da mucha importancia y valor a las relaciones que establece con los clientes.

YENMAK cuenta con certificados como INMETRO, ISO 9001, ISO / TS 16949, IATF 16943, TS EN ISO 14001.

Hoy en día, la empresa se encuentra en 1., 2. y 3. organizado zona industrial de Konya, con 2 fabricas, 1 Sede & Edificio de Logísticas, en total una área de 50.000 metros cuadrados.

Las actividades de venta y marketing se realiza en la oficina de exportación que se encuentra en Estambul.



Sede & Logística



Fabrica de Pistona & Pasador



Fabrica de Camisa de Motor

YENMAK

PIEZAS DE MOTOR





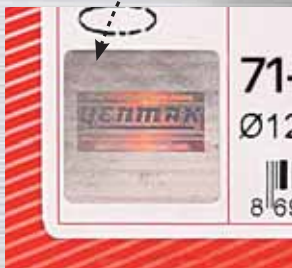
Desde el año 2003 los productos de Yenmak se toman lugar en el mercado envasado el formato que se puede ver aquí abajo.

La información sobre detalles de envasado se puede ver aquí abajo:

Gracias a cubertura especial será usted la primera persona en tocar el producto.



Número de Trazabilidad

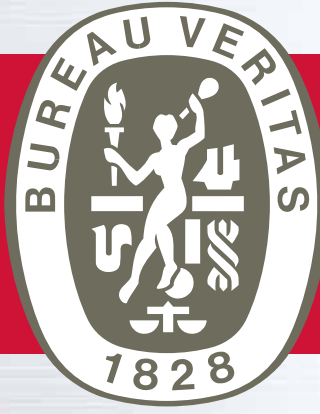


Para asegurar la seguridad del producto sobre el envase se encuentra integrado un holograma 3D de seguridad.



Una etiqueta que se encuentra bajo envase para proporcionar seguridad al producto.

BUREAU VERITAS Certification



ISO 14001
ISO / TS 16949
BUREAU VERITAS
Certification



PISTONES DE ACERO DE DOS PIEZAS



Pistón de acero de dos piezas, se conforma de una cabecera de acero da pistón y un eje de aluminio de pistón los dos juntados uno a otro con movilidad. Por los valores altos de resistencia y valores bajos de corrosión, estos pistones se pueden funcionar especialmente en los motores diésel de funcionamiento duro en límites bajos de emisión y gases de escape.

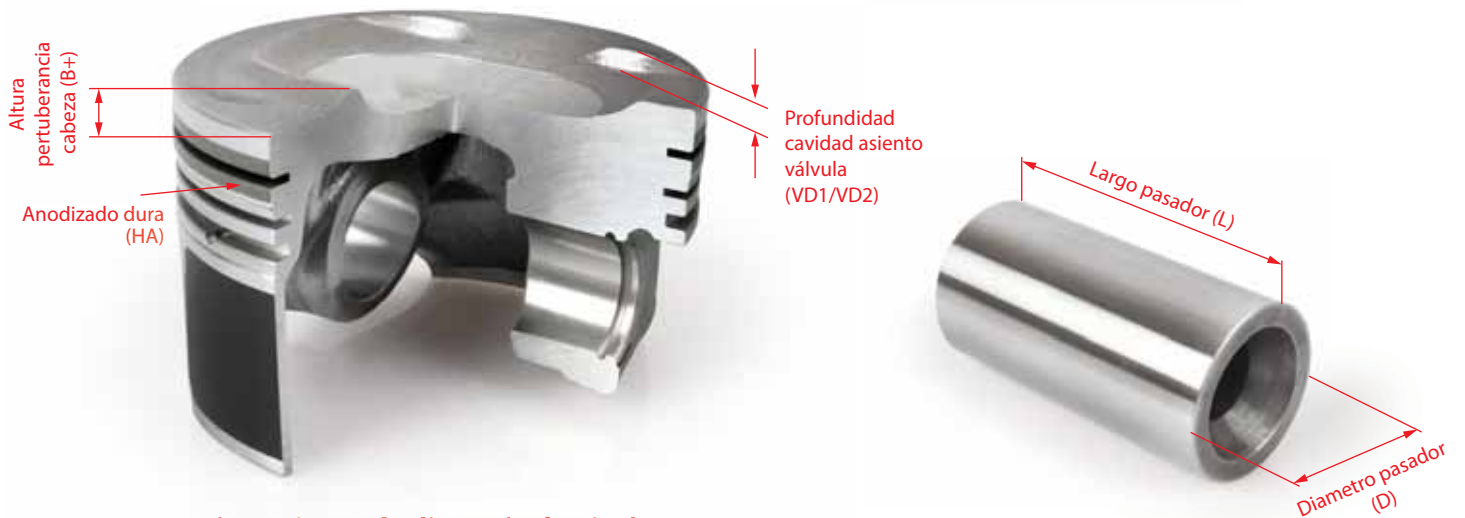
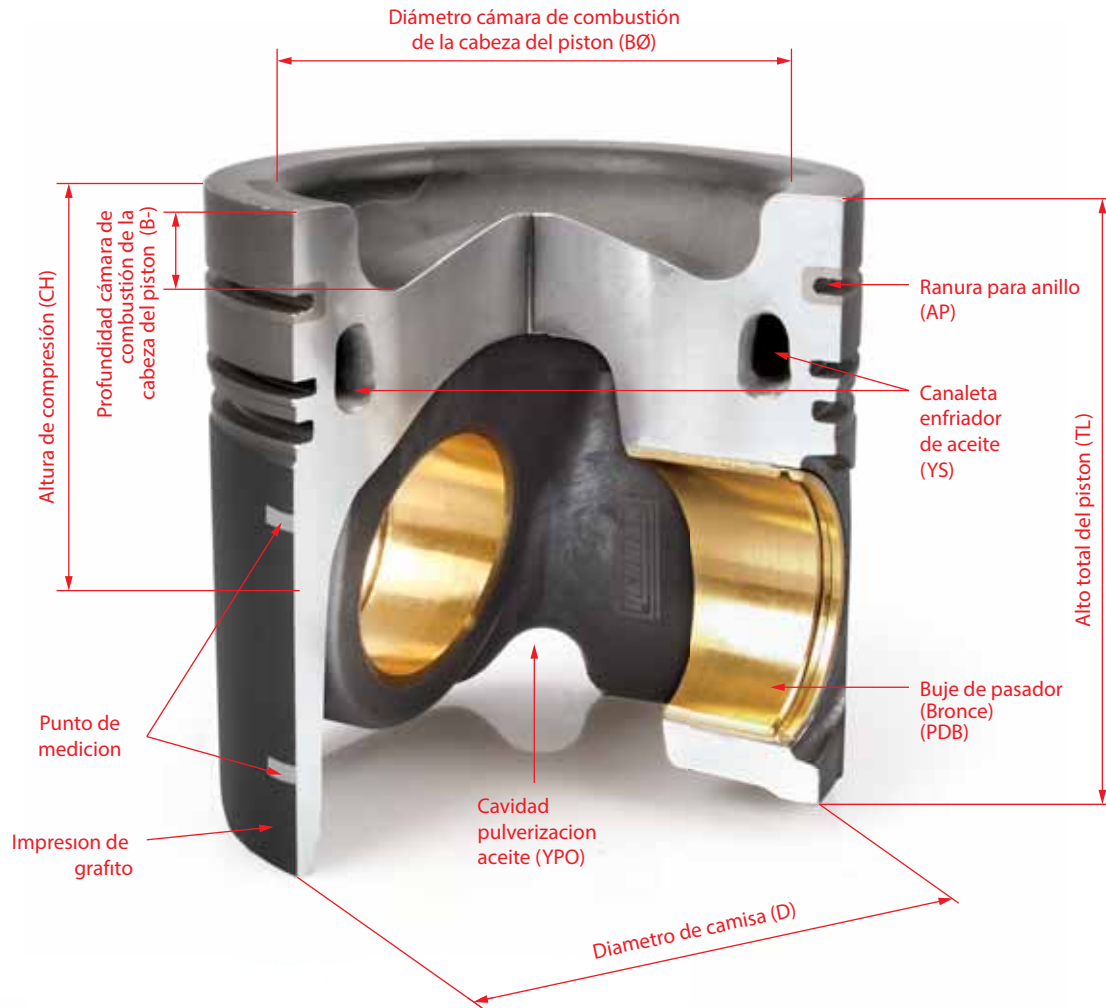
Pistones de Acero de Dos Piezas

- En motores de generación nueva que cuentan con ratio alto de comprimir y modernas cámaras de combustión.
- En los motores diésel de funcionamiento duro.
- En los motores que funcionan con sistemas de multi-combustible.

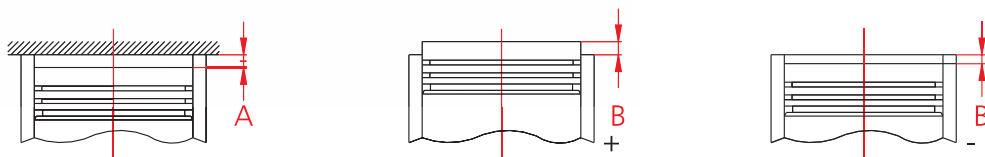
Ventajas de Pistones de Acero de Dos Piezas

- Pistones de acero de dos piezas comparando con los pistones de aluminio; área de contacto con la camisa de cilindro es menos así que hace que sean menos los perdidos que se causan por rozamiento,.
- Pistones de acero de dos piezas comparando con los pistones de aluminio; gracias a la resistencia que muestra contra los cargos termales, disminuye el riesgo de deformación de la camisa, puede funcionar en menos espacio de cilindro, aumenta la característica de impermeabilidad de los segmentos.
- Un pistón normal de aluminio muestra resistencia hasta 100 bares pero un pistón de acero de mismo tamaño puede ser hasta 250 bares.
- Proporciona mas alto ratio de comprimir y menos %2-5 emisión de CO₂ . Disminuye problemas de contacto causados por material alfin (Ni-resist) que se utilizan en pistones de aluminio para motores diésel.
- En pistones con cadenas de enfriamiento, hace que cadena de enfriamiento sea más cerca al pistón, y eso proporciona un enfriamiento efectivo.
- Pistones de acero de dos piezas comparando con los pistones de aluminio proporcionan menos deformación de la cámara de combustión.
- Pistones de acero de dos piezas disminuyen los gastos de rectificación del motor gracias a los efectos positivos que alargan la duración de uso de motor.
- Cuando hay problemas en la sobrealimentación y sistemas de inyección de combustible, causa a la fusión o perforación del pistón. En los dos-partes (articulado) pistones de acero, este tipo de problemas no se producen.

DESCRIPCIONES TECNICAS



Dimensiones de distancia de pistón



A = Dimensión hasta cabecera de cilindro

C = Dimensión de cabecera de pistón desde el superficie de bloqueo

INSTRUCCIONES DE MONTAJE DE LOS SEGMENTOS DE PISTON DE YENMAK

Si se desea poner en pistones ya usados, es necesario limpiar los agujeros de aceite y los residuos de carbón en canales de alojamiento de segmento. Es necesario limpiar todos los residuos de carbón excepto capas de carbón que se encuentran en las cúpulas de pistón. Hay que prestar atención en la limpieza de canales de pistón. Hay que prestar atención para que no se realicen rayas cuando se limpian las curvas de márgenes donde se juntan superficies laterales y superficies de base. Si estas rayas pueden causar quiebras en futuro. No es necesario procesar los pistones, porque el kit de segmento de Yenmak son diseñados para sentar de modo que convengan con los pistones originales. Los valores límites de gasto de cilindro que pueden utilizar los segmentos de pistones de Yenmak son:

En motores de bencina, en diámetro como máximo 0,1 mm

En motores de diésel, en diámetro como máximo 0,15 mm

Si en los pistones utilizados existe un desgaste dentro de los valores de espacio mencionados arriba, se debe cambiar los pistones que tienen mucha deformación en canales de segmento. Porque los pistones que tienen sus canales desgastados como forma y paralelismo, los valores de ajuste de espacio son incorrectos y los segmentos no funcionan correctamente en estos tipos de pistones y causan desperdicio de aceite y soplo.

Torcer los segmentos hacia abajo o arriba, causa la deformación en el funcionamiento de superficie de segmento y desgaste de material de cobertura. Estos desgastes invisibles causan problemas en las condiciones de funcionamiento de motor.

Abre los segmentos (con la ayuda de pinzas) y coloque los segmentos en los alojamientos que se encuentran en el pistón. Después apriete los segmentos utilizando clips de aprieta o un manguito cónico de montaje y empujando o si es necesario golpeando suavemente con un martillo colóquelos dentro del cilindro. Mientras este proceso, para prevenir que los segmentos finos salgan fuera de clips y se dañen, sostenga los clips sobre superficie de bloqueo. No se pueden utilizar segmentos cubiertos de cromo con motores con camisa cuyo dentro está cubierto de cromo.

Los segmentos marcados como YEN y TOP se deben colocar en los alojamientos de modo que los lados marcados sean hacia la cámara de combustión. Los segmentos que no tienen ninguna marca encima, se pueden colocar hacia cualquier lado.

PROCESOS DE REVESTIMIENTO DE SEGMENTO y PROCESOS DE SUPERFICIE

Cr = Revestimiento de Cromo

Mo = Revestimiento Molibdeno

P = Revestimiento de Fosfato

Fe = Revestimiento de Colcótar

Cu = Revestimiento de Cobre

Nt = Revestimiento de Nitrito

Sn = Revestimiento de Bismuto

Ck = Revestimiento de Cromo

Pvd = Acumulación de Vapor Físico

Cdc = Revestimiento de Diamante Cromo

Dlc = Revestimiento de Carbono con

Tef = Revestimiento teflon

DESCRIPCIONES TECNICAS

PROCESOS DE REVESTIMIENTO DE SEGEMENTO y PROCESOS DE SUPERFICIE

Ck (Revestimiento de Cromo-Cerámica)

Revestimiento de Cromo-Cerámica (CK), es un tipo de revestimiento compuesto, con estructura de red que se forman los elementos de oxido como cromo y aluminio. Estos revestimientos generalmente se utilizan para procesos de revestimiento de segmentos de primero alojamiento de los pistones de vehículos con motor diésel. Revestimiento CK lleva rendimiento alto y calidad alta gracias a la diferencia de electro plastia.

Diferencias entre Revestimiento de Ck y revestimiento de cromo duro

- Más resistencia contra desgaste
- Más alto punto de fusión
- Más alto dureza y concentración de fractura

Por estas ventajas los revestimientos de CK, proporcionan más largo vida de uso de motor y producción gases de escape de emisión baja.

Pvd (Acumulación de Vapor Físico)

Se denomina método de PVD, método que se forma por la acumulación en superficie del segmento de los duros revestimientos que se separan re-activamente de fase de vapor. Con este método se realiza evaporación y ionización de metal por arco eléctrico o bombardeo de iones

iones de metal puros y regulados se hace avanzar hacia superficie de componente. Como conclusión de esto, átomos de metal se forman nitrito, carburo y oxido reaccionando con las gases reactivos. Después de reacción sobre el superficie de funcionamiento de segmento se forma un revestimiento fino. Muestra alta resistencia contra desgastes gracias a carácter cerámica dentro de revestimiento.

Mo (Revestimiento Molibdeno)

Segmento se cubre con molibdeno para prevenir desgastes. Para prevenir los rastros de quemadura superficie de funcionamiento de segmento se llena con molibdeno o también toda la superficie se puede cubrir. Proceso de revestir se puede realizar por método de propagación de las llamas o propagación por la plasma.proyección de plasma. Punto alto de fusión de molibdeno (2620 C°), gracias a efecto de aceitar y a carácter de superficie porosa, superficie de funcionamiento de segmento de pistón es más durable. Tiene resistencia alta contra desgastes por la fricción y conductividad térmica.

Cr (Revestimiento de Cromo)

Este método de revestir con cromo duro es muy común para mejorar la dureza de los segmentos. El objetivo de revestimiento de cromo es prolongar la vida de uso de la camisa de cilindro y segmento, disminuyendo desgastes. Disminuir desgastes en el segmento y en pared de cilindro es posible con revestir con cromo el segmento que se encuentra más arriba. Hoy en día, hay la inclinación de cubrir dos y más segmentos, no solamente el segmento que se encuentra más arriba .

Como que el revestimiento con cromo proporciona una superficie dura, es obvio que disminuye desgaste en los segmentos.

Revestimiento con cromo se aplica en dos diferentes modos:

- Duro
- Revestimiento con cromo poroso

En revestimiento con cromo superficies de segmentos, después de revestimiento se mole y toma su última forma. Por revestimiento con cromo poroso, la superficie de segmento gana una carácter que retiene aceite. Así, proporcionan menos desgaste en sus mismas y en camisas que funcionan.

Nt (Revestimiento de Nitrito)

Con este método toda la superficie del segmento se endurece. Con este revestimiento la resistencia de superficie contra las fricciones se aumenta. Así se prolonga la vida de uso del segmento. Revestimiento con nitrito por sus caracteres de producción y emisión, es favorable al medio ambiente. Se ha visto que con revestimiento nitrito, se obtiene soluciones más efectivos de funcionamiento en superficies de rendimiento. Disminuye desperdicios de aceite en puntos sensibles del segmento. Hierro fundido aumento fragilidad de los segmentos. Prolonga vida de uso de motor.

Cdc (Revestimiento de Diamante Cromo)

Este tipo de revestimiento se utiliza en segmentos más altos de motores de tipo Euro 4 y diésel. Se puede aplicar a hierros fundidos aleados y flexibles y aceros de carbón. Pieza de diamante se utiliza en lugar de pieza de cerámica. Así la resistencia contra desgastes y rendimiento contra la fricción se aumenta.

Dlc (Diamante Como Carbono) (Revestimiento de Carbono con Revestimiento de Diamante)

Gracias a esto revestimiento se disminuye la fricción y se aumenta la resistencia contra desgaste. Revestimiento de DLC tiene carácter favorable al medio ambiente. Tiene fuertes enlaces químicos y no se rompe bajo tensión mecánica. No es de estructura cristal, es sin forma. Este producto es muy fuerte por su carácter. Es más durable comparando con otros, y tiene más resistencia contra la fricción.

DESCRIPCIONES TECNICAS



D = Segmento rectangular



D-IF = Segmento rectangular con superficie superior de margen interior achaflanado.



D-IFU = Segmento rectangular con superficie inferior de margen interior achaflanado.



D-IW = Segmento rectangular con superficie superior de margen interior escalonado.



D-IWU = Segmento rectangular con superficie inferior de margen interior escalonado.



K = Segmento cónico



K-IF = Segmento cónico con superficie superior de margen interior achaflanado.



K-IFU = Segmento cónico con superficie inferior de margen interior achaflanado.



K-IW = Segmento cónico con superficie superior de margen interior escalonado.



K-IWU = Segmento cónico con superficie inferior de margen interior escalonado.



TT = Segmento trapecio de unilateral



TT-IF = Segmento unilateral con superficie superior de margen interior achaflanado.



TT-IFU = Segmento unilateral con superficie inferior de margen interior achaflanado.



TT-IW = Segmento unilateral con superficie superior de margen interior escalonado.



TT-IWU = Segmento unilateral con superficie inferior de margen interior escalonado.



TT = Segmento trapecio bilateral



T-IF = Segmento bilateral con superficie superior de margen interior achaflanado.



T-IFU = Segmento bilateral con superficie inferior de margen interior achaflanado.



T-IW = Segmento bilateral con superficie superior de margen interior escalonado.



T-IWU = Segmento bilateral con superficie inferior de margen interior escalonado.



TK = Segmento cónico trapecio bilateral



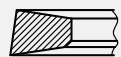
TK-IF = Segmento bilateral con superficie superior de margen interior achaflanado.



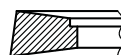
SDR = Segmento de acero con canales tipo V y con muelle helicoidal para control de aceite



X = Espesor del segmento (mm)



T-IFU = Segmento cónico con superficie inferior de margen interior achaflanado.



TK-IF = Segmento cónico con superficie superior de margen interior escalonado.



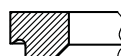
TK-IWU = Segmento cónico con superficie inferior de margen interior escalonado.



N = Segmento rascador



N-IF = Segmento rascador con superficie superior de margen interior achaflanado.



N-IFU = Segmento rascador con superficie inferior de margen interior achaflanado.



N-IW = Segmento rascador con superficie superior de margen interior escalonado.



N-IWU = Segmento rascador con superficie inferior de margen interior escalonado.



TN = Segmento rascador cónico



TN-IF = Segmento rascador cónico con superficie superior de margen interior achaflanado.



TN-IFU = Segmento rascador cónico con superficie inferior de margen interior achaflanado.



TN-IW = Segmento rascador cónico con superficie superior de margen interior escalonado.



TN-IWU = Segmento rascador cónico con superficie inferior de margen interior escalonado.



SC = Segmento dentado para control aceite



DC = Segmento achaflanado para control aceite



DB = Segmento achaflanado doble para control aceite



ES = Segmento dentado y con muelle plano para control de aceite



SY = Segmento dentado y con muelle helicoidal para control de aceite



DY = Segmento achaflanado con muelle helicoidal para control de aceite



PS = Segmento de doble achaflanado con muelle helicoidal para control de aceite



VF = Segmento con cinturón acero y muelle VF de control de aceite



UB = Segmento con cinturón acero tipo U para control de aceite



SDV = Segmento de acero con canales tipo V y con muelle helicoidal para control de aceite



DKS = Aceitero con punta conica

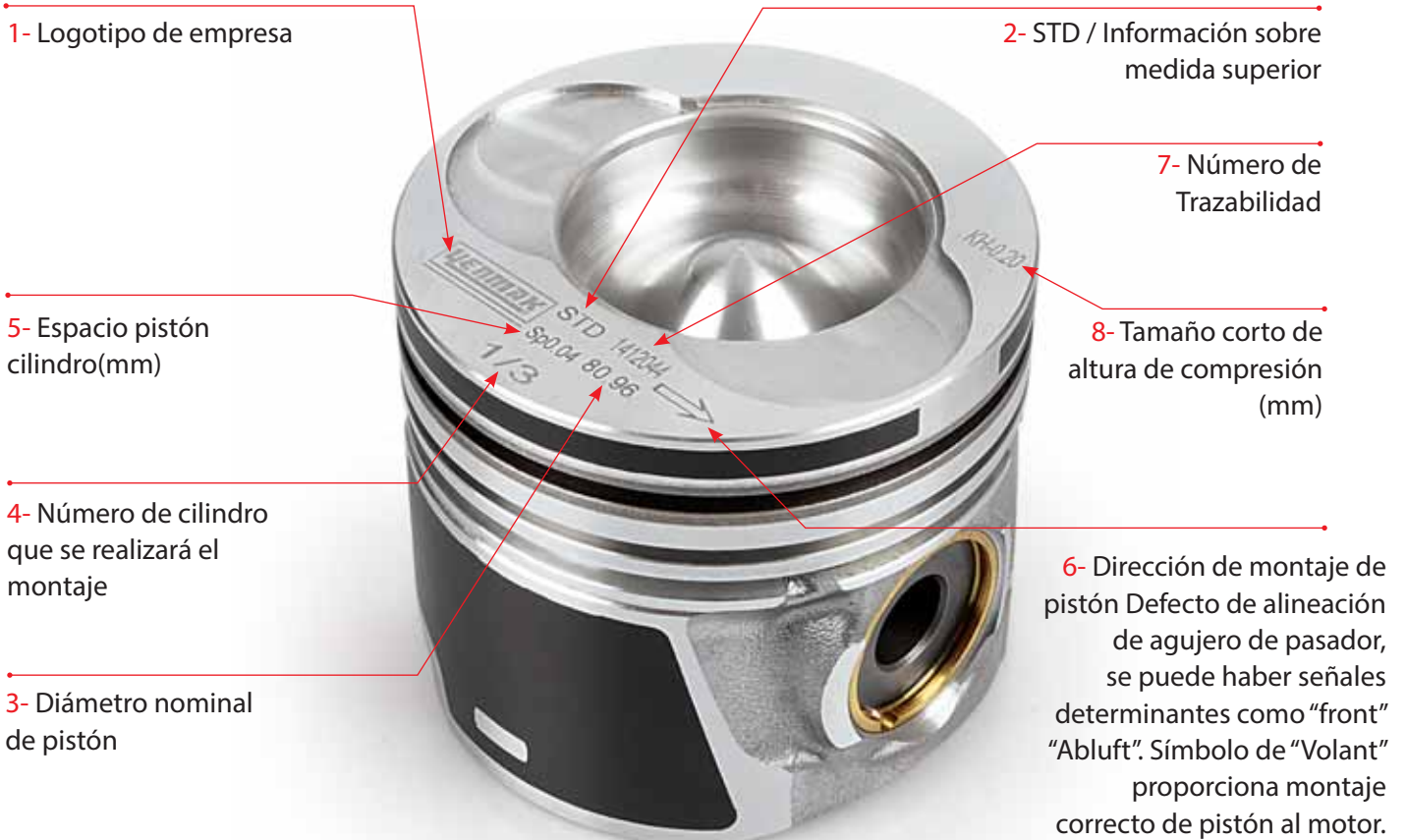
INSTRUCCIONES GENERALES PARA MONTAJE DE LOS PISTONES

- 1- Superficie interior del cilindro que se va a montar el pistón debe tener rayas de rectificado. Si el pistón se va a montar en un cilindro usado y /o desgastado, se debe controlar la conformidad de las rayas de rectificado de la superficie inferior. Si las rayas de rectificado de la superficie inferior del cilindro se perdieron por parte o completamente o si se ha formado una superficie reluciente, las rayas de rectificado se deben formar de nuevo.
- 2- Todos los pistones se producen sensibles para formar correcto espacio de funcionamiento de pistón - cilindro, cuando se montan dentro de un cilindro de tamaño correcto. Diámetros interiores de cilindro se deben controlar si son iguales con los tamaños que se mencionan sobre envase y así definir si es necesario que se procesen de nuevo. Cuando es necesario procesar diámetros interiores de cilindros desgastes a medida superior, se recomienda que diámetro de medidas superiores se procesan en tolerancia de 0.000-0.025 mm.
- 3- Pasador de pistón se debe quitar de los pistones listos para montaje sin dañar a pistón y el pasador de pistón. Pasadores de pistón deben ser montados combinándose con los tamaños de pistones y no se deben cambiar al azar.
- 4- Al montar los segmentos en los pistones, se debe utilizar herramientas adecuadas que no dañan a pistón y no deforman a segmentos. Al montar el pistón en el cilindro se debe utilizar adecuado clips de aprieta o manguito cónico de montaje. Después de realizar el proceso de apriete, se debe evitar montar el pistón dentro de cilindro aplicando fuerza excesiva o golpeando, se debe montar por la fuerza de dedo, con cuidado.
- 5- Antes de montaje del pistón al cilindro hay que limpiar cuidadosamente el cilindro y especialmente hay que limpiar los agujeros de pasador de cilindro y limpiarlos. Antes de montaje se debe aceitar dentro cilindro, para que en el primer funcionamiento hasta que realice el proceso de aceitar no se dañen el pistón y el cilindro.
- 6-Si en la parte arriba de pistón existe un señal que indica la dirección de montaje, el montaje se realiza conforme a este señal.
- 7- Debe tener mucha cuidado para no dañar el pistón, pasador de pistón y el segmento.
- 8- Los pistones se producen conforme a las normas, con otras piezas que se van a utilizar juntos. Por eso no se debe hacer ningún proceso sobre los pistones.
- 9- Pasador y segmentos de seguridad no tienen que ser usados de nuevo, siempre hay que usar nuevos pasadores y segmentos de seguridad.
- 10- Control de la linealidad del brazo de biela que se va a utilizar en el montaje es importante para prevenir posibles problemas graves. La linealidad del brazo de biela, se debe controlar otra vez antes de montaje con aparatos adecuados.

NOTA: Hay que actuar conforme de los mencionados en esta instrucción de montaje. El productor no aceptará responsabilidad por problemas causadas de montaje no realizado conforme las instrucciones.

DESCRIPCIONES TECNICAS

8- MARCAJE DE PISTON Y CODIGOS



9- NÚMERO DE REFERENCIA DE PISTÓN

EJEMPLO

Número de referencia de pistón

11-01513-000

- 000 = STD / Pistón + Segmento
- 001 = Altura de compresión (strok) -0,20 mm corto
- 002 = Altura de compresión (strok) -0,40 mm corto
- 003 = Altura de compresión (strok) -0,60 mm corto
- 050 = +0,50 mm medida superior / Pistón + Segmento

NÚMERO DE REFERENCIA ANTERIOR	NUEVO NÚMERO DE REFERENCIA
1513 000	11-01513-000

10- NÚMERO DE REFERENCIA DE PISTÓN + SEGMENTO

EJEMPLO

Número de referencia de pistón + segmento

31-03513-000

- 000 = STD / Pistón + Segmento
- 050 = +0,50 mm medida superior / Pistón + Segmento

NÚMERO DE REFERENCIA ANTERIOR	NUEVO NÚMERO DE REFERENCIA
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

Diferencias entre tipos y revestimientos de los anillos motor.

38-

39-

11- DESCRIPCIONES DE REFERENCIA DE CAMISA

EJEMPLO

Número de referencia de camisa

51-05513-000

000 = STD / Camisa
050 = +0,50 mm medida superior / Camisa

NÚMERO DE REFERENCIA ANTERIOR	NUEVO NÚMERO DE REFERENCIA
5513 000	51-05513-000

12- DESCRIPCIONES DE REFERENCIA DE KIT, SET

Referencia del Kit Motor : Piston + Pasador + Anillos + Camisa

Numero de referencia del kit

71-07513-000

000 = STD / Kit
050 = +0,50 mm sobremedida / Kit

Diferencias entre tipos y revestimientos de los anillos motor.

71-8

71-9

NÚMERO DE REFERENCIA ANTERIOR	NUEVO NÚMERO DE REFERENCIA
7513 000	71-07513-000
7513 000-08	71-87513-000
7513 000-09	71-97513-000

13- NÚMERO DE REFERENCIA DE SEGMENTO

Número de referencia de segmento

91-09513-000

000 = STD / Segmento
050 = +0,50 mm medida superior / Segmento

Diferencias entre tipos y revestimientos de los anillos motor.

98-

99-

NÚMERO DE REFERENCIA ANTERIOR	NUEVO NÚMERO DE REFERENCIA
9513 000	91-09513-000
9513 000-08	98-09513-000
9513 000-09	99-09513-000

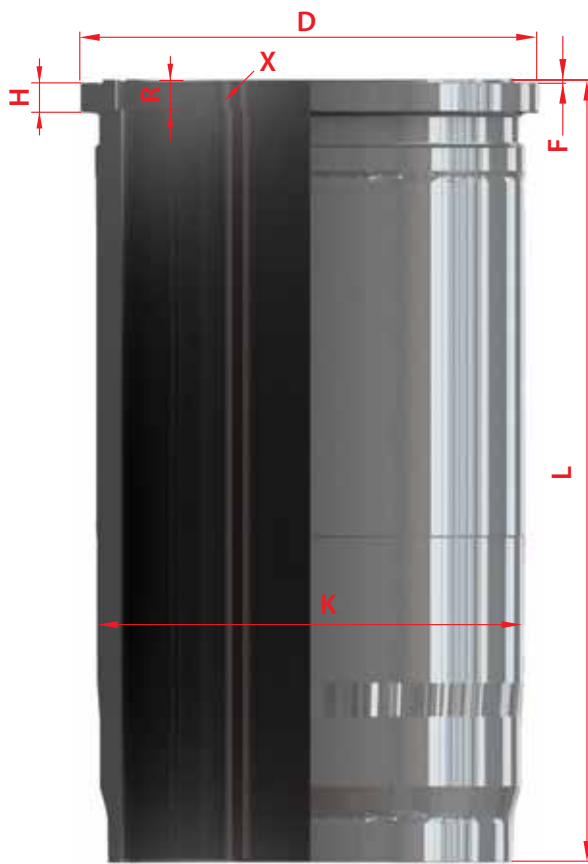
14 - NÚMERO DE REFERENCIA DE RETÉN

Número de referencia de Retén

55-50701-000

DESCRIPCIONES TECNICAS

DESCRIPCIÓN TECNICO DE LA CAMISA DE CILINDRO



- K = Diámetro exterior
- L = Altura total
- H = Altura de brida
- F = Profundidad de junta
- D = Diámetro de brida
- X = Altura de segmento en lugar de montaje
- R = Altura de lugar de montaje

Descripción de Las Camisas de Cilindro Conforme a TES 482

En motores de combustión interna, es elemento de maquina de forma cilindro y de fundición gris que se monta a bloqueo de cilindro, y dentro de este elemento pistón se mueve y el combustible se quema.

Camisas de Cilindro de Motor se puede analizar en dos grupos:

Camisa de Cilindro Húmeda

Son camisas de cilindro que en el bloqueo de cilindro se enfrían por agua desde exterior.

Se agrupa en tres grupos principales:

a- : Con Brida y Canal: Son camisas que se montan en el bloque de cilindro con brida desde arriba, en parte baja de motor existen canales de junta para permitir la fuga de agua de enfriamiento. (Imagen-1)

b- Con Brida y Sin Canal: Son camisas que se montan en el bloque de cilindro con brida desde arriba y en parte baja no tienen canales de junta. Juntas de impermeabilidad se encuentran en las canales abiertas en bloque. (Imagen-2)

c- Con Doble Brida: Son camisas que se montan en el bloque de cilindro con brida y junta desde arriba y abajo de un modo que no permita a fuga de agua de enfriamiento de motor. (Imagen-3)

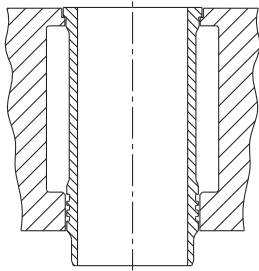


Imagen- 1

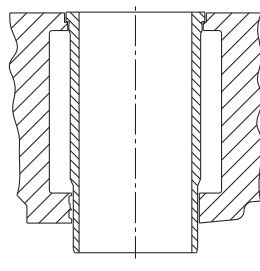


Imagen- 2

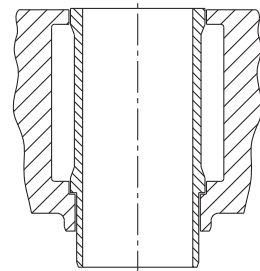


Imagen- 3

Camisas Secas de Cilindro:

Son camisas que no tienen contacto directo con agua de enfriamiento en el bloque de cilindro que se montan.

Se pueden analizar en dos grupos según sus formas:

a- Con Brida (Imagen -4)

b- Sin Brida - Liso (Imagen-5)

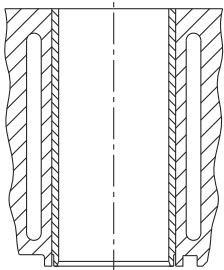


Imagen- 4

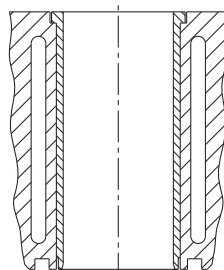


Imagen- 5

LOS PUNTOS A CONSIDERAR EN EL MONTAJE DE CAMISAS DE CILINDRO

INSTRUCCIÓN DE MONTAJE DE CAMISAS SECAS DE CILINDRO

Las camisas secas de cilindro se producen con brida y sin brida. (Imagen-6) Mientras que en camisas sin bridas bajo condiciones malas es común deslizamiento axial, en caso de montaje de pistón, no es común en camisas con bridas. Es una ventaja de la brida.

Antes de que se presionan las camisas a cilindros, hay que moler o realizar torneado sensible o el proceso de rectificado en los cilindros conforme a valores Nominales que se presentan en la lista de diámetro exterior de las camisas (A) que se ve aquí abajo.

Hay que prestar atención especial a las tolerancias que se mencionan aquí abajo. (Imagen -7). Si no, en caso de que tensión delantera sea muy baja la transferencia de calor no se realiza correctamente, en caso de que tensión delantera sea muy alta, las camisas que tienen paredes muy finas corren peligro de causar desajuste en el cilindro y eso puede causar fallos de operaciones. Las camisas secas cuyas dimensiones exteriores se procesan como medida final, se envían después de atorneado 0.5-0.75 mm más pequeño las diámetros interiores.

Cuando la camisa seca con brida se monta con presión al bloque de cilindro, para evitar que se rompa la brida, el agujero preparado para brida en el bloque debe ser más grande que el diámetro exterior (C) de la brida.

DESCRIPCIONES TECNICAS

En camisas secas con brida, cuando se realiza la presión, parte baja de la brida tiene que sentar bien a superficie de sentar sobre el alojamiento de bloque.

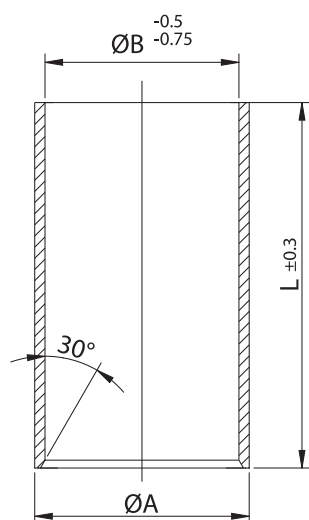


Imagen- 6

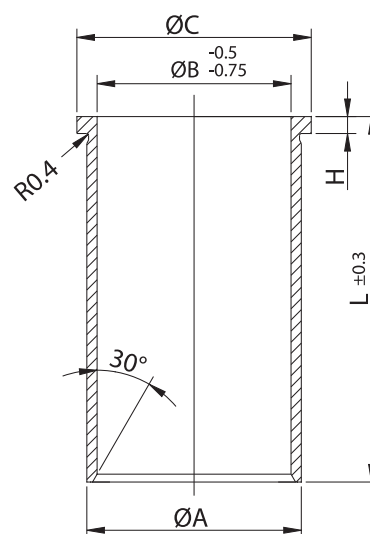


Imagen- 7

Como se sabe las camisas tienen en la parte baja de la brida radio de 0.4 mm. Al montar la camisa al bloque para evitar que se sienta este radio, hay que dejar un achaflanado de 1.0 mm al área donde se sienta la brida. Sino, es inevitable la rotura de brida de la camisa.

Antes de montar nuevas camisas los cilindros que se encuentran en bloque de motor se deben limpiar cuidadosamente y hay que controlar dimensiones de los mismos. La ovalidad y conicidad no debe superar a 0.025 mm. En el proceso de rectificado hay que trabajar para obtener una superficie reluciente y hay que controlar los valores de suavidad conforme a tipo de motor. Superficies muy relucientes y suaves causan que el proceso de aceitar se falte por eso no hay que evitar que sean así las superficies.

Presiones de 3000-5000 kg son bastantes para camisas secas de cilindro. Si se utiliza un material duro como material de aceite, después de un tiempo este material pasa por coquificación por el calor y transferencia de calor se dificulta. Después de montaje con presión, los molidos deben quitarse de superficie de la junta de bloque de cilindro mediante molidos de superficie.

Si es necesario procesar superficie de junta de bloque de cilindro, superficie de sentar para las bridas en alojamiento debe ser más profunda. También se pueden encontrar camisas de cilindro que tienen dimensiones interiores torneadas y otras que tienen dimensiones terminadas.

Estas camisas se presionan a cilindro con poca cuota de retrificado y el proceso de retrificado se realiza después de presionar. Tolerancia de medida nominal de diámetro interior de cilindro es de +0 ile +0.015 mm. Tolerancia de medida nominal de diámetro exterior de cilindro es de +0.012 ile 0.024 mm.

	Grupos de Diámetro Exterior de Camisas		
	50 - 80	80 - 120	120 - 180
QA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
QC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

	Diámetros de Agujero de Bloque (mm)		
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
QC ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25

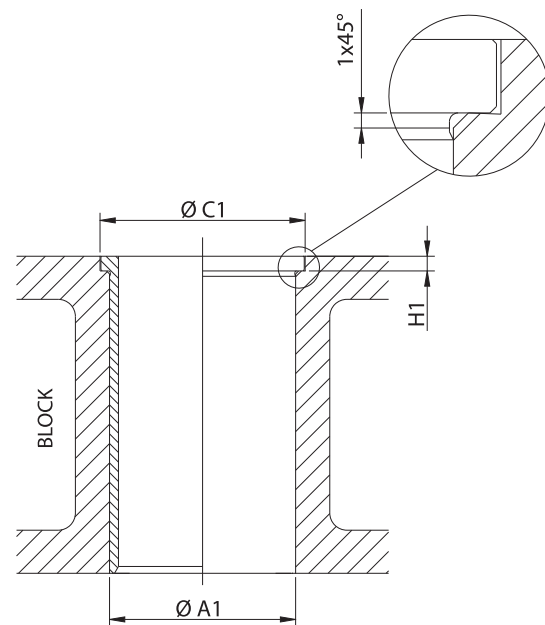


Imagen- 9

INSTUCCIÓN DE MONTAJE DE CAMISAS DE CILINDRO HUMEDAS

Camisas de Cilindro de YENMAK Motor se producen por método de fundición centrifugada que proporciona resistencia contra desgaste y tire. Cuando se quita camisas antiguas de cilindro hay que prestar mucha atención para no causar daño en las superficies de cilindro.

Se debe limpiar cuidadosamente el cal, barro o otros materiales de suciedad si cuando existen en bloque de motor, en puntos de contacto de cilindro. En la limpieza no hay que utilizar cortadores o rascadores que pueden rayar superficies. Para este proceso el utensilio apto es cepillo de alambres. Para quitar capas de cal, oxidación y para quitar antiguas camisas que se fijan en cilindro hay que golpear con una chaveta y martillo, si la camisa no se puede quitar así se utiliza presión hidráulica. Mientras se limpia hay que prestar atención en superficies de sentar para que estas no se dañen.

Superficie que se sienta brida de camisa debe ser paralelo a superficie de bloque. No debe presentar ninguna diferencia en sentido de plenitud y lisura como se ve en (Imagen-10). Además hay que controlar si el eje de cilindro es vertical según superficie de junta de bloque de cilindro. (Imagen-11) Siempre hay que tener cuidado también para no aplastar superficies de sentar de cilindro. (Imagen 12)

Para evitar que radio que se encuentra debajo de brida de camisa (d) se sienta en lugar de superficie de sentar de brida (a) hay que dejar un radio de 45° 0.5-1.0 mm en el punto donde se encuentra diámetro de cilindro (c). Para evitar el peligro de rotura la fuerza de impermeabilidad y fuerza opositor tienen que colocarse en sentidos opuestos.

DESCRIPCIONES TECNICAS

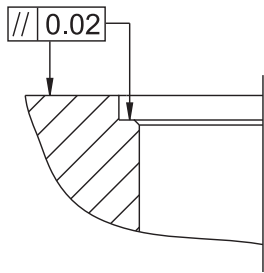


Imagen- 10

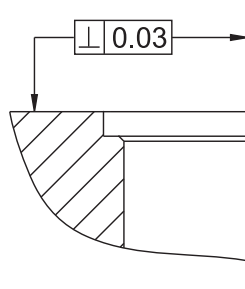


Imagen- 11

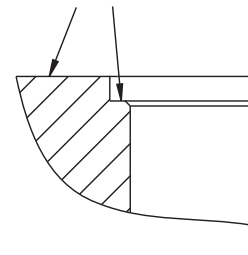


Imagen- 12

Debe de ser de mismo tamaño el diámetro de agujero de juntas (b) y diámetro exterior de la camisa (c). Para proporcionar impermeabilidad completa a cámara de combustión hay que utilizar juntas de marco metálico.

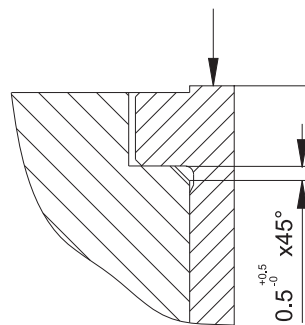


Imagen- 14

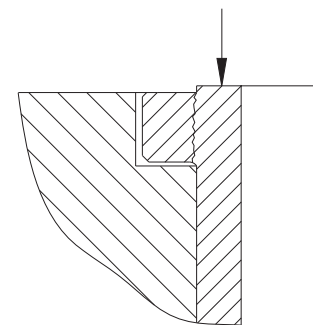


Imagen- 15

Con el fin de determinar si el bloque de cilindros se establece fácilmente dentro de la camisa de cilindro y es muy grande o muy amplia, camisa de cilindro debe ser insertado en el bloque de cilindros a mano sin el uso de anillos de goma antes de la instalación. Especialmente para controlar si la posicionamiento de brida de la camisa con la superficie es correcto o no, se recomienda trastornar la camisa y ponerla a superficie de montaje de brida antes de montaje. Como se sabe, brida debe estar en parte que no se enfría de motor y se expande.

Aquí hay que tener en cuenta un espacio de 0.3-0.5 mm.

En esta instrucción de montaje, la cosa que más se subraya es que el proceso de montar y quitar la camisa se debe realizar conforme a objetivo. O sea, problemas causados por el uso de martillo u otros utensilios en el proceso de montaje dan una solución mala.

Rings de caucho que se utilizarán en el montaje deben ser de buena calidad y resistentes a inflamación, envejecimiento, el aceite y el calor. Sino, el agua baja a cárter y presión a la camisa y deformación de las medidas se realiza. Cada vez se aplica jabón de aceite a rings de caucho y así se colocan en alojamientos.

Rings de caucho solamente pueden ser los que se prefieren por productores de motor. Porque son resistentes a inflamación, envejecimiento, el aceite y el calor.

Agarrotamiento del pistón, lo que provoca la rotura de la camisa del cilindro, es un resultado de la utilización inadecuada de los anillos de goma. Puntos donde se colocan los anillos de goma no deben ser raspados.

Hay que controlar una vez más la medida de cilindro después de poner las camisas manualmente. Este control especialmente debe realizar en los lugares de rings de caucho donde se pueden ocurrir ovalidad o inclinación.

Después de poner completamente las camisas bloque de cilindro debe llenarse con agua y presionarse para controlar el estado de impermeabilidad.










DETALLES DE MARCAJE DE CAMISA



RETÉN

Junta Torica	
EPDM	Caucho EPD
NBR	Goma/Perbunan (NBR)
FPM / VI	FPM / FKM
Cu	Cobre
T	Latón Rojo
ST	Acero
SC / MVQ	Silicona (VMQ)
Shim / SM	Metal Blando



93,000 1		3		4		5		6		7	
4JB1 2		D 00 2005 > 00 2005 4 Cyl 2771cc 57kW (78ps)									
 <p>11-02385-000 8 CH 51,850 VD1 0,550 10 B- 19,500 11 BØ 43,900 12 TL 91,850 13</p> <p>15 31,00x76,00</p> <p>Isuzu ve Opel ile Ortak Motor 27</p>		<p>AP 14 YS HA CP</p> <p>91-09389-000 1 2,000  P 16 2 2,000  P 3 4,000  CrP</p> <p>1. Conta ile 1,50mm (+0,71/+0,77) 2. Conta ile 1,55mm (+0,77/+0,81) 3. Conta ile 1,60mm (+0,81/+0,87) 17</p>		<p>Ø 93,000 18</p> <p>31-04385-000 19</p>							
		<p>99-09389-000 1 2,000  FeP 16 2 2,000  FeP 3 4,000  TeF</p>								39-04385-000	
 <p>K=95,00 22 L=181,00 24 H=0,90 25 D=101,00 23</p>		DF-CR-ST 26						51-35721-000 20		71-08385-000 71-98385-000 21	
 <p>K=120,00 22 L=229,00 24 H+F=9,00+1,10 25 D=128,50 23</p>		WF 26				O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00 28		51-06067-000 20 52-06067-000		71-07152-000 72-07152-000 21	

- 1- Diámetro de Pistón
- 2- Código de Motor
- 3- Información de Combustible
- 4- Años de Modelos
- 5- Número de Cilindro
- 6- Volumen de Cilindro
- 7- Potencia de Motor
- 8- Código de Pistón
- 9- CH: Strok
- 10- VD1/VD2: Profundidad de Válvula
- 11- B- : Profundidad de cámara de combustión
B+ : Altura pertuberancia cabeza
- 12- BØ: Diámetro de Célula
- 13- TL: Longitud Total
- 14- Especialidades de Pistón
 - *DAP: Pistón Con Alfin Doble
 - *AP: Pistón Con Alfin
 - *YS: Piston con enfriamiento de aceite
 - *CP: Piston Con Chapa de Acero
 - *HA: Con Revestimiento de Anodizado Duro
 - *PDB: Agujero de Pasador Con Cojinete
- 15- Diámetro de Pasador - Tamaño - Especialidades
- 16- Especialidades de Segmento

- 17- Alzas de Cabecera de pistón
- 18- Diámetro de Cilindro
- 19- Piston + Brazo de Segmento
- 20- Código de Camisa
- 21- Código de Kit
- 22- Diámetro Exterior de Cilindro
- 23- Diámetro de Brida de Camisa
- 24- Longitud Total de Camisa
- 25- Espesor de Brida
- 26- Especificaciones de la camisa.
 - *WS : Revestimiento húmedo semi terminado
 - *WF : Revestimiento húmedo final completo
 - *DS : Revestimiento seco semi terminado
 - *DF : Revestimiento seco final completo
 - *AF : Refrigerado por aire final completo
 - *PH : Fosfato
 - *CR : Cromo
 - *HR : Curtido
 - *NT : Nitrato
 - *HT : Tratamiento térmico
 - *STEEL : Acero
- 27- Moteur commun
- 28- Código de Retén

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Yenmak em 1965 pela família Kahvecioğlu foi fundada em Konya como uma pequena oficina. YENMAK Ao longo dos anos, sempre se renovando e melhorando a casa e no exterior como um fornecedor independente de peças de motor, tornou-se um dos maiores fornecedores mundiais. Yenmak hoje “produção de equipamento, êmbolo, pino do pistão, anel de pistão, forro do cilindro do motor, selo, válvula do motor e berço” abastecimento destes produtos são exportados para mais de 80 países diferentes dos cinco continentes.

Para nossos clientes, nós, como um parceiro de longo prazo; Além da melhor qualidade e preço razoável e máxima confiabilidade; tais como serviço pós-venda e as vendas, o portfólio de produtos aos seus clientes a partir de uma única fonte assegura o fornecimento de todas as peças de motor em um pacote.

Yenmak tem INMETRO, ISO 9001, ISO / TS 16949, IATF 16943, TS EN ISO 14001. Yenmak, um total de 50.000 metros quadrados de área, está localizado em Konya Organizado Zona Industrial 1,2,3.(Planta Sede 1 e 2 ea construção de logística,). Vendas e atividades de marketing YENMAK em Istambul, realizado no escritório de exportação.



Sede E Logística



E Pino Do Pistão Fábrica



Camisa De Motor De Fábrica

YENMAK

PEÇAS DE MOTOR



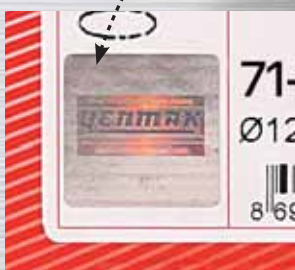
Desde 2003; Yenmak produtos, embalados em um formato que vemos a seguir, realizou-se no mercado. Os dados para encontrar os detalhes do pacote são:



Graças ao nosso selo especial, você é o primeiro a abrir o produto.



Número de rastreabilidade

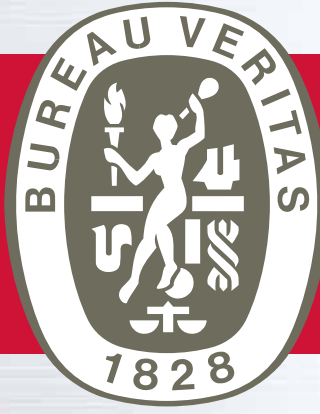


Com o objetivo de ser segura, uma holograma 3D integrado na caixa.



Com o objetivo de garantir a segurança dos produtos, aplicado caixa de seis etiqueta de segurança.

BUREAU VERITAS Certification



ISO 14001
ISO / TS 16949
BUREAU VERITAS
Certification



Pistões de aço pedaço de casal.



Duplo peça pistão de aço, consiste em o movimento do pino de êmbolo na cabeça do êmbolo e do aço e alumínio interligado haste do êmbolo.

Devido à resistência elevada e valores baixos de desgaste, esses pistões são, principalmente, oferece trabalho em baixa as emissões de escape e limites de emissões para os motores diesel pesados.

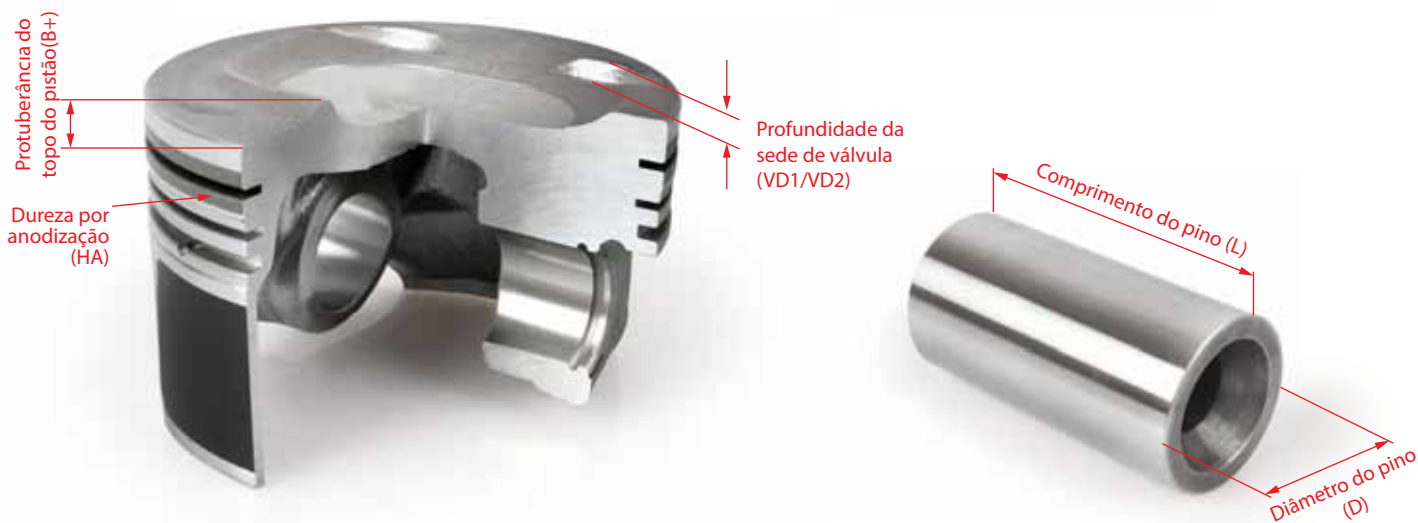
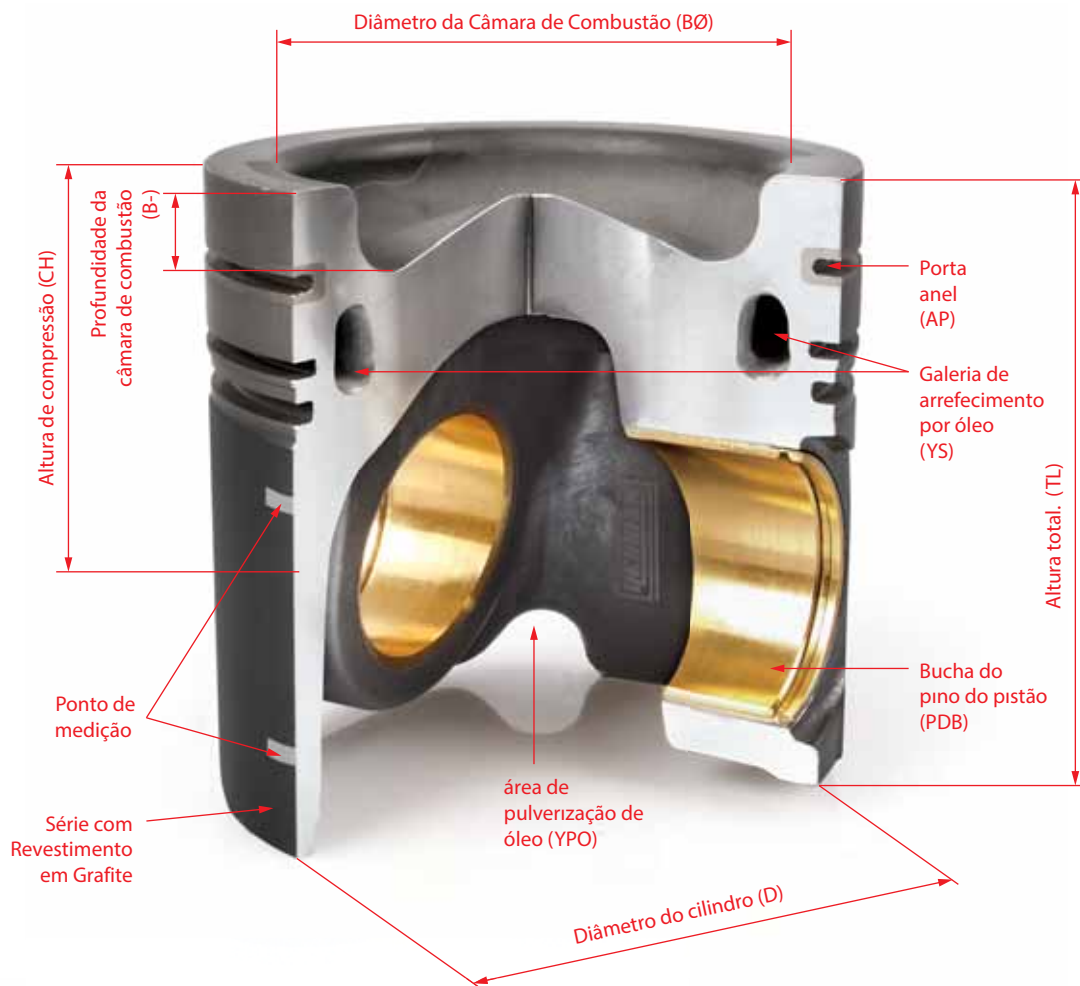
Peça de aço Pistons dupla;

- A nova geração de motores com altas taxas de compressão e câmara de combustão moderno,
- Nos motores pesados com motores diesel,
- Em motores que utilizam os vários sistemas de combustível,

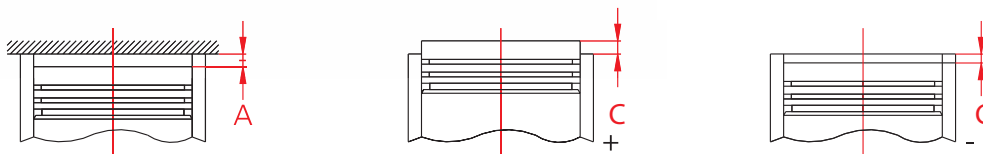
Vantagens de via dupla pistão de aço;

- De acordo com os pistões pistões de aço de alumínio peças de casal; Devido às distâncias de menos contacto com o revestimento, que garante menos forças de atrito induzido perdas.
- Pistões de aço dupla peça, em comparação com pistões de alumínio;
- Devido à sua elevada resistência à carga térmica, reduzir o risco de deformação e revestimentos podem operar em uma câmara inferior do cilindro aumenta as propriedades de vedação dos anéis.
- Normalmente, um pistão de alumínio mostrando resistência à pressão de até 100 bar, um pistão de aço com as mesmas dimensões podem suportar a pressão até 250 bar.
- Uma maior taxa de compressão no motor e permite a formação de entre 2-5% menos emissões de CO₂. ALF utilizado em cilindros de alumínio para motores diesel (Ni-resistir) permite reduzir os problemas decorrentes do contato material.
- A condução de arrefecimento de êmbolo, o êmbolo pode estar mais perto do topo do canal de arrefecimento, permitindo, assim, um arrefecimento mais eficaz pode ser fornecido.
- Pistões de aço dupla peça, em comparação com pistões de alumínio; a câmara de combustão uma distorção mínima.
- Pistões de aço dupla peça prolongar a vida útil do motor, os efeitos positivos, o motor irá moer inferior.
- Pistões de aço duplo peças e pistão ocorreu sistema de sistemas de injeção de combustível sobrealimentação, que resulta da fusão dos problemas de perfuração pistão não ocorrem.

DEFININDO DESCRIÇÃO TÉCNICA;



Dimensões De Distância Do Pistão



A = as dimensões da cabeça do cilindro.

C = tamanho do êmbolo no início da superfície do bloco.

INSTRUÇÕES DE MONTAGEM PISTÃO YENMAK

Quando solicitado, usado para pendurar no pistão, pistons devem ser apuradas de resíduo de carbono nos canais sulco anel e buracos de óleo. Camada de carbono nas colinas fora os Pistons devem ser limpos todos os mais resíduo de carbono. Canais anel deve ser cuidadosamente. Tenha cuidado para não arranhar durante a limpeza da junção do lado e as curvas borda inferior. Caso contrário, começando futuras rachaduras arranhões. Há máquina de ter o anel do pistão porque YENMAK propõe, para adaptar os motores de pistão originais foram projetados. Anéis de pistão do cilindro Yenmak podem ser utilizados, os valores-limite de desgaste são:

Diâmetro A maioria dos motores a gasolina é 0,1 mm.

O diâmetro dos motores diesel é também 0,15 mm.

Em geral; que estão no pistão, a cavidade é uma erosão dos valores definidos acima,

Deformação excessiva da ranhura para o anel de pistão é para ser substituída. À medida que os segmentos de pistões e perturbações na forma de paralelismo no canal, é enganadora para um valor adequado e segmentos espacial bem neste tipo de êmbolo, causar sintomas como óleo e drenagem. Anel de dobragem para cima e para baixo, a fim de tornar o movimento da superfície de trabalho na forma de anéis e deterioração do material de revestimento pode causar deformado. Esta deformação é invisível, pode levar a problemas com as condições de funcionamento do motor.

Arruelas (abertura anel com uma pinça) é aberta, coloque seus slots no pistão, respectivamente. Então, através de um cônicas clips anel ou apertar o anel com manga e martelo cabo de montagem no topo do pistão, cilindro, se necessário, tocando em seu slide. Durante este processo, para evitar danos por ficar braçadeira de anel fino, como o bloco terminal de rosto para baixo de forma contínua, preste atenção para a conservação. No motor de forros intra-crómio, cromados anéis de pistão não deve ser usado.

A superfície em YEN ou TOP do segmento com as marcas, que enfrenta o branding, queimadura, de frente para a câmara, deve ser anexado à habitação. Sem uma marcação sobre os anéis de pistão pode ser instalada em qualquer direção.

ANEL REVESTIMENTOS E TRATAMENTOS DE SUPERFÍCIE

Cr = cromagem.

Mo = revestimento do molibdênio

P = revestimento de fosfato

Fe = revestimento ferrosit

Cu = bainha de cobre

Nt = revestimento de nitreto

Sn = tin chapeamento

Ck = cromo cerâmica

Pvd= deposição de vapor físico

Cdc= revestimento de cromo diamante

Dlc = revestimento de carbono revestido de diamante

Tef = revestimento de Teflon

DEFININDO DESCRIÇÃO TÉCNICA;

REVESTIMENTOS E TRATAMENTOS DE SUPERFÍCIE DE PISTÃO,

Ck (O crómio revestimento cerâmico)

Revestimentos de cromo-cerâmico (CK) e crómio obtidos por a estrutura da rede da alumina formar um elemento de envelope aninhados compósito. Estes revestimentos são principalmente veículos com pistões do motor diesel, anéis de pistão utilizados para cobrir os primeiros slots. CK revestimento, como resultado das diferenças no processo de electrólise, adicionando alta qualidade e desempenho.

A diferença entre o revestimento Ck e cromagem dura;

- Abrasão superior.
- Ponto de fusão mais elevado.
- Dureza e densidade de crack maior.

Devido a estas vantagens, revestimentos de CK são usados em veículos, a extensão da vida do motor permite a criação de baixa emissão de gases de escape.

PVD (Physical Vapor Deposition)

A decomposição do reagente na fase de vapor do revestimento duro, um método devido à acumulação de segmentos de superfície, chamado método PVD. Para arco eléctrico ou bombardeamento iónico, evaporação do metal e ionização por meio deste método. E providenciado iões metálicos dissociados, é avançada para a superfície do componente. Como resultado, os átomos de metal reagir gases reagentes, e nitreto, carboneto e óxido. Após a reacção, a superfície do anel de operação é formada uma camada fina. Devido à natureza do revestimento de cerâmica é altamente resistente à abrasão.

Mo (Molibdénio)

De modo a evitar influências ambientais anéis são revestidos com molibdénio. A fim de evitar as queimaduras, a superfície de trabalho dos segmentos pode ser preenchido com molibdénio ou de toda a superfície a ser revestida. O processo de revestimento por pulverização e tanto chama de plasma pode ser realizada pelo método de pulverização. Molibdénio, elevado ponto de fusão (2620 C°), graças à sua estrutura porosa, e o efeito lubrificante dos anéis de pistão sobre a superfície de trabalho, faz com que seja mais resistente. Resistência ao desgaste e abrasão alta condutividade térmica.

Cr (cromagem)

Para aumentar a durabilidade dos anéis, que método é usado extensivamente revestidas com cromo duro. Chromium alvo menos desgaste prolongar a vida útil dos anéis de pistão e camisas de cilindro. Redução da parede do cilindro e do anel de desgaste, pode ser feito por revestimento dos anéis de topo de cromo. Hoje em dia, não só o anel de pistão superior, mas também tem a tendência de cromo a partir de dois ou mais segmentos. O revestimento com cromo, porque para criar uma superfície dura, é claro que reduz o desgaste dos aros do êmbolo.

Revestimento de cromo é aplicada de duas maneiras:

- Difícil,
- Revestimento poroso com cromo,

Em processo de cromagem dura, depois de as superfícies de pistão revestidas com cromo, apedrejado para obter a sua forma final. Anéis, apenas o revestimento poroso com cromo, superfície adquire uma função de separador de gordura. Por conseguinte, limitar tanto as próprias obras bem como a sua superfície lateral, também ao desgaste.

Nt (Nitrito De Revestimento)

Nitrito processo de revestimento, todas as superfícies do anel são endurecidas. Com este revestimento, a resistência ao atrito da superfície aumenta. Assim, o tempo de vida é prolongado anel. De produção e de emissão de propriedades do revestimento de nitreto é ambientalmente amigável. Resultados mais efetivos de trabalho dos revestimentos de superfície desempenho críticos com nitrito foram demonstrados. Anel de reduzir derramamentos de petróleo que consistem em pontos sensíveis. Reduz a fragilidade de anéis de ferro fundido. Aumenta a vida útil do motor.

CDC (revestimento de diamante cromo)

Este tipo de revestimento pode ser utilizado nas colinas e anéis em Euro 4 motores diesel.

flexível e pode ser aplicado a liga de ferro fundido de aço carbono. Partículas de diamante são usados em vez de partículas de cerâmica. Pelo qual a resistência ao desgaste contra o atrito e melhorar o desempenho.

DLC (de carbono diamante)(Revestimento de carbono revestido de diamante)

Com este revestimento reduz o atrito e aumento da resistência à abrasão. Tal como acontece com as propriedades de revestimento DLC, é um edifício ambientalmente amigável. As ligações químicas são fortes, inquebrável sob estresse mecânico.

Eles são não-cristalino, amorfo. Devido a este material de construção é um material muito forte. Outros revestimentos com base em mais durável, mais resistente ao desgaste e ao rasgamento.

DEFININDO DESCRIÇÃO TÉCNICA;

	D = Anéis retangulares.		TI-IFU = Com dois lados bordas da superfície inferior do anel de trapézio cone superior chanfrada.
	D-IF = Superfície chanfrada anel rectangular borda interna.		TK-IW = Superfície de dupla face gradualmente reduzida anéis trapézio borda interna.
	D-IFU = Anel inferior interior borda chanfrada oblongo.		TK-IWU = Anéis de trapézio Duplex gradualmente reduzida borda interna da superfície do fundo.
	D-IW = Superfície de Borda dentro gradualmente anel retangular.		N = Anéis de nariz raspador.
	D-IWU = Borda interna gradualmente menor anel retangular superfície.		N-IF = Superfície chanfrada dentro anéis raspadores nariz borda.
	K = Arruelas cônicas.		N-IFU = A superfície inferior da borda interna chanfrada anéis raspadores nariz.
	K-IF = Anel interno cônico cantos chanfrados superfície.		N-IW = Inside Edge skimmers de superfície gradualmente anéis de nariz.
	K-IFU = Bordas chanfradas cônico anel inferior interior.		N-IWU = Nariz dentro de borda skimmers gradualmente inferiores.
	K-IW = Superfície periférica interna gradualmente reduzida anel.		TN = Anéis Nosecone raspador.
	K-IWU = Gradualmente afunilada bordo interior do anel inferior.		TN-IF = Superfície interior bordas chanfradas nariz afilado anel raspador
	TT = Anéis de trapézio unilaterais.		TN-IFU = Bordas chanfradas interior inferior nariz afilado anel raspador
	TT-IF = Arestas interiores de superfície chanfrada anéis trapézio lados.		TN-IW = Dentro superfície Borda anel raspador de nariz gradualmente reduzida
	TT-IFU = İçken faces chanfradas anéis de trapézio de superfície.		TN-IWU = Fundo borda interna do anel raspador de nariz gradualmente reduzida
	TT-IW = Dentro superfície Borda gradualmente anéis de trapézio lados.		SC = Fenda anel de controle de óleo
	TT-IWU = Borda interna gradualmente inferiores anéis trapézio unilaterais.		DC = Anel de controle de óleo chanfrada
	T = Anéis trapezoidais frente e verso.		DB = Anel de controle de óleo duas vezes chanfrada
	T-IF = Superfície chanfrada dentro de anéis de trapézio borda duplex.		ES = Reed fenda anel de controle de óleo
	T-IFU = Com dois lados bordas da superfície inferior do anel interior chanfrada trapézio.		SY = Mola helicoidal com fenda anel de controle de óleo
	T-IW = Superfície do bordo interior anéis trapezoidais duplas gradualmente.		DY = Mola helicoidal bordas chanfradas anel de controle de óleo
	T-IWU = Borda interna gradualmente mais baixo face anéis trapezoidais.		PS = Mola helicoidal bordas chanfradas casal, anel de controle de óleo
	TK = Trapezoidal anéis cônicos de dupla face.		VF = Anéis de controle de óleo VF feito de banda de aço mola
	TK-IF = Superfície chanfrada dentro de borda dupla trapezoidais anéis cônicos.		UB = Aço do tipo banda de anel de controle de óleo
	SDR = V-channel anel de controle de óleo de aço mola helicoidal.		SDV = Canal-V anel de controle de óleo de aço mola helicoidal
	X = Espessura do corte (mm)		DKS = Anel de óleo com fenda, ponta cônica e mola

INSTRUÇÕES DE MONTAGEM PISTÃO GERAL.

- 1- O cilindro de pistão está preso à superfície interior deve baklavams linhas de moagem. Se pistão usado pronto para a instalação e / ou no cilindro desgastado instalada no interior deve ser verificada a conformidade com as linhas que afiam. Se a superfície interior do cilindro, é aperfeiçoar linhas e superfície lisa é composto por parcialmente ou totalmente perdida, aperfeiçoar reveste a superfície interior da garrafa tem de ser cortado para voltar a ocorrer.
- 2- Todo o êmbolo, se for medido correctamente instalado num cilindro, e pistão-cilindro de trabalho definido para a realização do furo, fabricado com precisão. o diâmetro interior do cilindro, para determinar a medição no rótulo da caixa ou a adequação deve ser verificado e re-processada de modo a que eles têm de ser verificados. o diâmetro interior de cilindros gastos, o processamento de medição superior é, o diâmetro nominal da medida de tolerância superior recomendada processamento de 0000-0025 mm.
- 3- Pronto para a montagem do pistão do pino de êmbolo, o pino do êmbolo, e que não sejam prejudiciais para ser removido por um método adequado. Pino de êmbolo, a fim de proporcionar combinado montado em conformidade dimensional do pistão é alterada de forma aleatória.
- 4- Durante a inserção dos segmentos de pistões; anéis de distorcer e danificar o pistão, utilizar equipamento adequado. Durante o elemento pistão-cilindro, com um anel de grampos adequados ou manga cônica de montagem. Adequadamente, o processo de fiação de anéis, levada a cabo após o pistão no cilindro deve evitar a instalar a aplicação de força excessiva, ou para fotografar deve ser cuidadosamente instalado com a força de dedo.
- 5- Os pistões, antes da montagem do cilindro cuidadosamente limpos e a limpeza do furo do pistão e do pistão do pino, especialmente a lubrificação de interesse. Durante a primeira execução antes da instalação para evitar danos no pistão do cilindro interno e lubrificação cilindro Até então, bem untada.
- 6- Se a coroa do pistão, a marcação indica a direcção de montagem do sinal, considerando que marca durante a instalação, a instalação deve ser feito corretamente.
- 7- Para evitar danos nos anéis de pistão e pinos de pistão, tomar o máximo cuidado.
- 8- Pistons, em conformidade com as normas geralmente aceites, são fabricados para as outras partes são utilizadas em conjunto. Por conseguinte, faz depois.
- 9- Alfinetes de segurança e anéis não podem ser reutilizados, use sempre um novo pino eo retentor.
- 10- A linearidade da haste de ligação para uso no controle é importante para os problemas graves que as impedem. A linearidade da haste deve ser verificado novamente antes da montagem com o equipamento certo.

Nota: Isto deve ser observada de acordo com as instruções de instalação. Instruções do fabricante não é responsável por quaisquer problemas causados pela instalação incorreta.

DEFININDO DESCRIÇÃO TÉCNICA;

8- PISTON MARCAÇÃO E CODIFICAÇÃO;



9- NÚMERO DE REFERÊNCIA DO PISTÃO

EXEMPLO

Referência Pistão

11-01513-000

- 000 anéis = std / + pistão.
- 001 = compressão (acidente vascular cerebral)
Altura - 0,20 mm mais curto.
- 002 = compressão (acidente vascular cerebral)
Altura - 0,40 milímetros mais curto.
- 003 = compressão (acidente vascular cerebral)
Altura - 0,60 mm mais curto.
- 050 = 0,50 mm acima da medição / pistão + segmento.

NÚMERO DE REFERÊNCIA ANTERIOR	NOVO NÚMERO DE REFERÊNCIA
1513 000	11-01513-000

10- NÚMERO DE REFERÊNCIA DO ANEL + PISTÃO

EXEMPLO

Número de referência do anel + pistão

31-03513-000

- 000 anéis = std / + pistão.
- 050 = 0,50 mm acima da medição / pistão + segmento.

NÚMERO DE REFERÊNCIA ANTERIOR	NOVO NÚMERO DE REFERÊNCIA
3513 000	31-03513-000
3513 000-08	38-03513-000
3513 000-09	39-03513-000

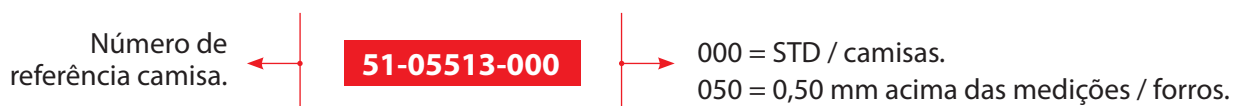
Diferenças entre tipos de pistão e revestimentos.

38-

39-

11 - REFEREM-SE AOS FORROS DESCRIÇÕES.

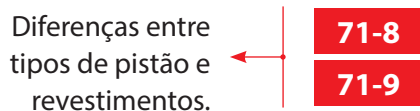
EXEMPLO



NÚMERO DE REFERÊNCIA ANTERIOR	NOVO NÚMERO DE REFERÊNCIA
5513 000	51-05513-000

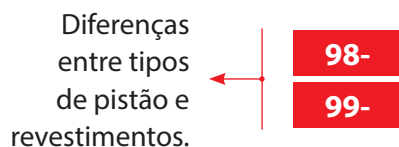
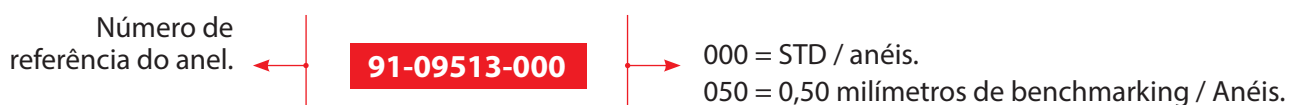
12 - DEFINIÇÕES DE EQUIPAMENTOS E KIT.

Referência do kit montado : Pistão + pino + anel de segmento + camisa de cilindro



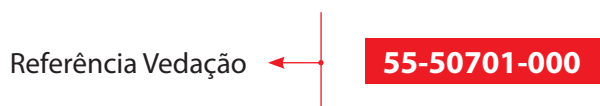
NÚMERO DE REFERÊNCIA ANTERIOR	NOVO NÚMERO DE REFERÊNCIA
7513 000	71-07513-000
7513 000-08	71-87513-000
7513 000-09	71-97513-000

13 - NÚMERO DE REFERÊNCIA DO ANEL.



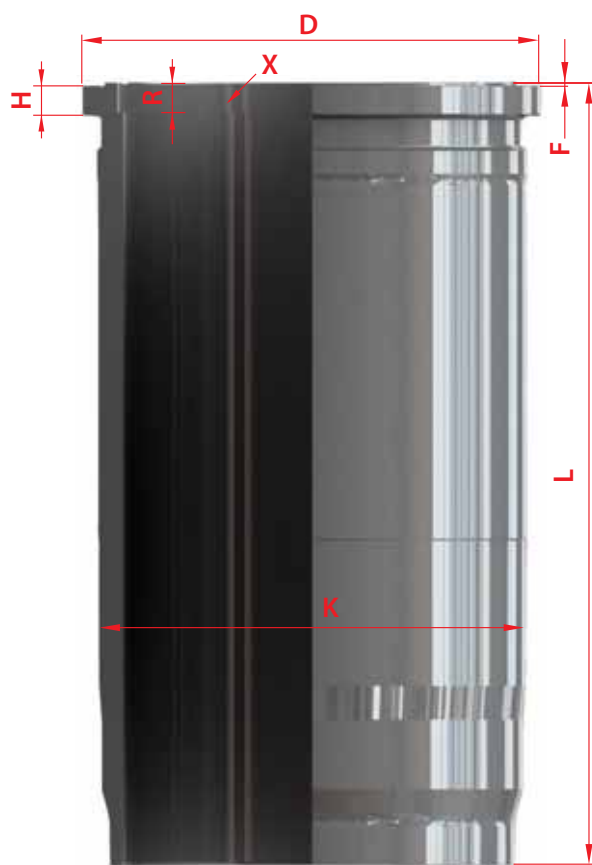
NÚMERO DE REFERÊNCIA ANTERIOR	NOVO NÚMERO DE REFERÊNCIA
9513 000	91-09513-000
9513 000-08	98-09513-000
9513 000-09	99-09513-000

14 - REFERÊNCIA VEDAÇÃO



DEFININDO DESCRIÇÃO TÉCNICA;

DESCRIÇÃO TÉCNICA DA CAMISA DO CILINDRO



- K = diâmetro externo
- L = comprimento total
- H = altura da flange
- F = profundidade selo
- D = diâmetro da flange
- X = comprimento do segmento instituídos.
- R = em vez definições de comprimento.

TS 482 de acordo com a descrição do revestimento do cilindro:

Camisas de cilindro, em um motor de combustão interna montada no bloco do motor, que se desloca no pistão e combustível é queimado um ferro fundido máquina cilíndrica partes.

Camisas de cilindro de motor, podem ser divididos em duas classes.

Idade gömklek dos cilindros:

De água gelada na qual estes estão ligados externa para o bloco de cilindros é forros.

Acumulados três grupos principais:

a- Flange e canal: Bloco de cilindros, sentando-se em cima da flange, para garantir a fuga do líquido de refrigeração na parte inferior, há camisas canais vedantes. (Figura 1)

b- Flange e semcanal: Estes são os blocos de camisas de cilindro, ao sentar-se nas flanges superiores e inferiores sem canais vedantes. Selos no bloco localizado no canal de abertura. (Figura 2)

c- Flange Duplo: motores, água de arrefecimento de modo a não perder a parte superior e inferior e flanges são detectados como um camisas de cilindro fechadas. (Figura 3)

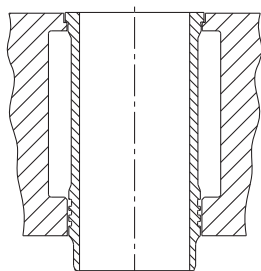


Figura - 1

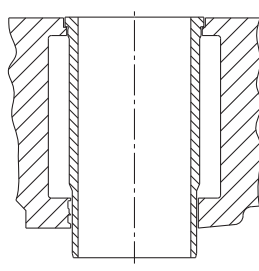


Figura - 2

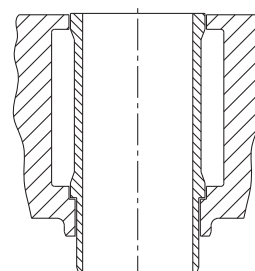


Figura - 3

Camisas De Cilindro Secas:

Eles não estão em contacto com as camisas de cilindro são inseridos bloco diretamente com água de arrefecimento.

A forma podem ser analisados em duas categorias principais:

a- flange (Figura 4)

b- flange de carga (Figura 5)

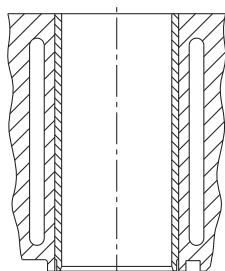


Figura - 4

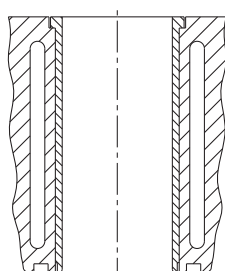


Figura - 5

ASPECTOS IMPORTANTES DA INSTALAÇÃO DO REVESTIMENTO.

INSTRUÇÕES DE INSTALAÇÃO PARA AS CAMISAS DE CILINDRO SECO.

Camisas de cilindros secos são fabricados como flange e sem flange. (Figura 6) geralmente visto na direcção axial do êmbolo no caso de montagem de flanges camisa sob más condições de trabalho não pode ser encontrada em um flange de forros são susceptíveis de deslizar. Esta é uma vantagem da flange.

Forros, antes do cilindro é pressionado, fortes camisas de cilindro de diâmetro externo na lista a seguir para (A) de acordo com o tamanho nominal, ou é vítima de torneamento de precisão ou de moagem e aprimorando processos.

As seguintes tolerâncias, a atenção deve ser pago. (Figura 7) Caso contrário, a tensão é muito baixa, a transferência de calor vai ser saudável, pré-tensão é muito alto, paredes muito finas, o que levará ao perigo de as razões da não-conformidade com camisas de cilindro e, assim, levar para dar questões de falência são susceptíveis de surgir. O diâmetro exterior é enviada como a medida final de camisas secos transformados tornalanarak diâmetro interno pequeno de cerca de 0,5-0,75 mm.

Quando flange de montagem pressiona o bloco de cilindro de revestimento seco, a fim de evitar a ruptura da flange, o furo para o processamento de flange solto, o diâmetro exterior da flange (C) que é maior processada.

DEFININDO DESCRIÇÃO TÉCNICA;

Flangeadas camisas secas, enquanto prima passe, assim como o ajuste direito deve ser fornecida no lado de baixo do assento do alojamento da flange de bloco.

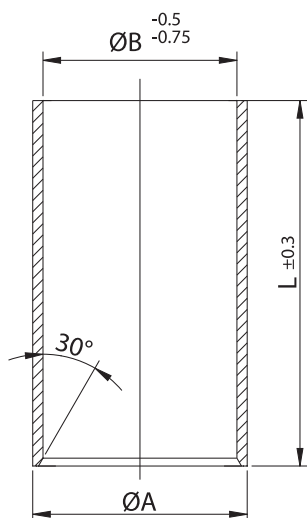


Figura - 6

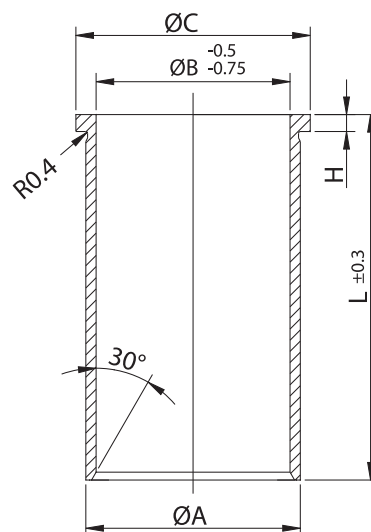


Figura - 7

Como é bem conhecido, as camisas têm o lado inferior da flange tem um raio de 0,4 mm. a camisa do conjunto do bloco, a fim de evitar esse raio de permanência, passagem bloco habitada do flange tem de ser dada de um chanfro de 1,0 mm. Caso contrário, a ruptura da camisa é flanges inevitáveis.

Antes de instalar o novo camisola; cilindro deve ser monitorado cuidadosamente limpos a precisão do motor e de medição. Arredondamento e afunilamento não deve exceder 0.025 milímetros. enquanto aperfeiçoa rugosidade da superfície procurará alcançar o tipo de motor deverá ser verificada pela superfície brilhante. Muito superfície brilhante e lisa para a falta de lubrificação fará com que esta situação, deverá ser evitada.

Antes de instalar o novo camisola; cilindro deve ser monitorado cuidadosamente limpos a precisão do motor e de medição. A pressão de 3000-5000 kg de camisas de cilindros secos imprensa escrita é suficiente. Quando usado como lubrificante sólido durante a montagem, em seguida, coque devido ao calor, e este material é difícil de transferência de calor. Prensas feito após a instalação do bloco de cilindros de fecho e de rectificação plana.

Bloco de cilindros, se necessário, para tratar as superfícies da junta,

Deste modo, o assento na flange da carcaça edição mais profunda. Além disso, o diâmetro exterior do diâmetro interno dos rolos acabados mate maquinada com precisão em camisas. Estas camisas têm uma parte muito pequena de brunimento, os cilindros são pressionados e pressionou, eles apertaram no estado. O diâmetro interno do cilindro de medição com nominal de tolerância 0 0,015 milímetros.

O diâmetro exterior da camisa do cilindro, as dimensões nominais e tolerância entre 0012-0024 mm.

Camisa De Fora Grupos De Diâmetro.			
	50 - 80	80 - 120	120 - 180
QA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
QC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

Diâmetro Do Furo Do Bloco (mm)			
	50 - 80	80 - 120	120 - 180
Q ₁ A	+0.01	+0.01	+0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
QC ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25

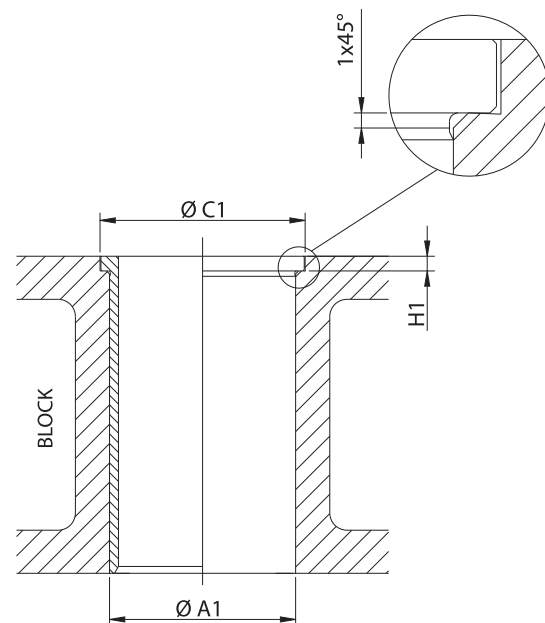


Figura - 9

CAMISAS DE CILINDRO MOLHADAS INSTRUÇÕES DE INSTALAÇÃO

YENMAK camisas de cilindro motor contra o desgaste e resistência à tracção, para assim se obter uma estrutura de propriedades de resistência, é fabricado pelo método de fundição centrífuga.

A fim de evitar danos para a sede do cilindro, deve mostrar cuidado ao remover camisas velhas.

O contacto do cilindro no motor, limpar cuidadosamente a lama de cal e de outros poluentes. Durante a limpeza, então zero raspador de usar ferramentas como formões.

Este processo é escova de aço ferramenta adequada. Para a remoção de ferrugem e cal estabilizado camada das camisas de cilindro é atingido com um martelo monta uma peças do carro sobre eles, embora seja possível para a camisa olmassa prensa hidráulica, em seguida, 'tiro, a fim de remover a cabeça. A limpeza é feita com muito cuidado com o assento, devem ser fornecidos os danos.

Sente-se sobre a superfície inferior do plano paralelo ao colar as superfícies de bloco.

(Figura 10) não diferem em termos de suavidade e planicidade conforme mostrado.

Além disso, o eixo do cilindro perpendiculars ao bloco de cilindros, assegurar que a superfície de vedação. (Figura 11) é chão em um único superfícies de assentamento da garrafa deve sempre ter cuidado que eles são destruídos. (Figura 12)

L raio na parte inferior do colar (D) da superfície da flange do cilindro de assentamento (a) no canto ao diâmetro do cilindro (C) de 0,5-1,0 mm, para impedir que para além do seu ponto. No caso de uma gama de 45 °.

Força contra a força de vedação para impedir a falha, tem de ser perpendiculars entre si.

DEFININDO DESCRIÇÃO TÉCNICA;

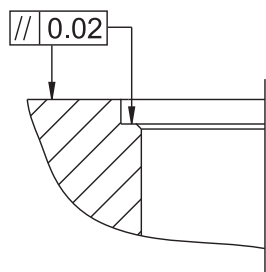


Figura - 10

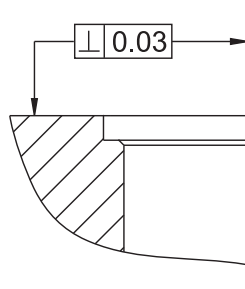


Figura - 11

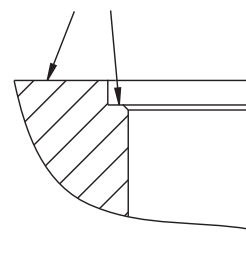


Figura - 12

O diâmetro exterior da manga com um diâmetro do orifício da junta de vedação deve ser igual. Câmara de combustão, a fim de garantir uma vedação completa, o selo terá de utilizar a estrutura de metal.

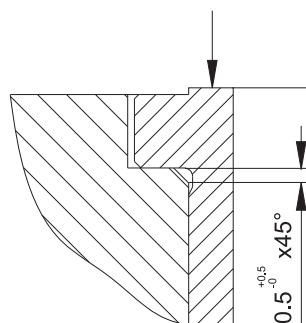


Figura - 14

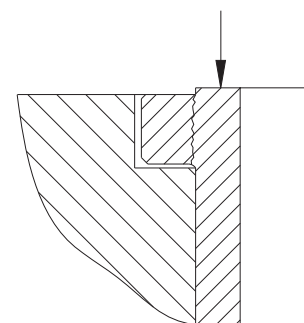


Figura - 15

Para determinar se o cilindro é facilmente organizados no assentamento da camisa e é muito grandes ou muito grandes camisas blocos no cilindro deve ser inserido à mão sem o uso do anel para a instalação. Em particular, a fim de determinar se a posição correta para sua camisa antes de as superfícies do flange de montagem do bloco de inversão de flash, colocando as superfícies de assento flange recomendado. Conhecido como para arrefecer o flange no motor, para aumentá-la. Deve ser considerado como uma abertura teórico de 0,3-0,5 mm.

Ele salienta que nada nas instruções de instalação em todas as oportunidades, é usar camisas e considerações em conformidade com a finalidade de remoção. Quando o conjunto de martelos e assim por diante. Que o uso de outro time pesado, desta forma não é correto, dar maus resultados de ocorrência de erros.

Os anéis de borracha para ser usado durante a instalação, há a qualidade e as bolhas necessitam de ser, resistente ao desgaste, óleo e deve ser resistente ao calor. Caso contrário, cobrir a água que vem para baixo, o que conduz a uma deterioração da camisa e a compressão medida. Sabão macio cada vez que o anel de borracha é accionado e, assim, inserido na ranhura.

Como anel de borracha, usado somente pelas marcas de fabricantes de motores de qualidade pode ser designada. Esta é a principal razão para a escolha, elásticos inchar e resistente ao desgaste, não óleo e calor.

Apreensão do pistão, que pode causar a quebra camisa é um resultado do uso indevido de anéis de borracha. Peças habitadas por anéis de borracha não deve nunca ganhar.

Depois de camisas inserido manualmente, é importante para controlar o tamanho do cilindro uma vez. Este controle, especialmente em áreas onde os anéis de borracha são oval em forma e têm de encolhimento pode ocorrer.

Shirts Uma vez totalmente inseridos, doldulurak ser comprimida pelo bloco de cilindros e estado da água de selagem devem ser monitorados.










DETALHES CAMISA TAG.



VEDAÇÃO

Anel de Vedação	
EPDM	Borracha EPD
NBR	Borracha NBR
FPM / VI	FPM / FKM
Cu	Cobre
T	Latão Vermelho
ST	Aço
SC / MVQ	Silicone (VMQ)
Shim / SM	Metal Macio



93,000 1		3		4		5		6		7	
4JB1 2		D 00 2005 > 00 2005 4 Cyl 2771cc 57kW (78ps)									
 <p>11-02385-000 8 CH 51,850 VD1 0,550 10 B- 19,500 BØ 43,900 12 TL 91,850 13</p> <p>15 31,00x76,00</p> <p>Isuzu ve Opel ile Ortak Motor 27</p>		<p>AP 14 YS HA CP</p> <p>91-09389-000 1 2,000  P 16 2 2,000  P 3 4,000  CrP</p> <p>1. Conta ile 1,50mm (+0,71/+0,77) 2. Conta ile 1,55mm (+0,77/+0,81) 3. Conta ile 1,60mm (+0,81/+0,87) 17</p>		<p>Ø 93,000 18</p> <p>31-04385-000 19</p>							
		<p>99-09389-000 1 2,000  FeP 16 2 2,000  FeP 3 4,000  TeF</p>								39-04385-000	
 <p>K=95,00 22 L=181,00 H=0,90 25 D=101,00 23</p> <p>24</p>		DF-CR-ST 26						51-35721-000 20		71-08385-000 71-98385-000 21	
 <p>K=120,00 22 L=229,00 H+F=9,00+1,10 25 D=128,50 23</p> <p>24</p>		WF 26				O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00 28		51-06067-000 20 52-06067-000		71-07152-000 21 72-07152-000	

- | | |
|--|--|
| <p>1 - Diâmetro Do Pistão</p> <p>2 - Código De Motor</p> <p>3 - Informações De Combustível</p> <p>4 - Anos De Modelo</p> <p>5 - O Número De Cilindros</p> <p>6 - Volume Do Cilindro</p> <p>7 - A Potência Do Motor</p> <p>8 - Código De Pistão</p> <p>9 - Ch: Acidente Vascular Cerebral</p> <p>10 - Vd1 / Vd2: Profundidade Válvula</p> <p>11 - B- : Profundidade da câmara de combustão.
B+ : Protuberância do topo do pistão</p> <p>12 - Bo: Diâmetro De Célula</p> <p>13 - Tl: Tamanho Grande</p> <p>14 - Funções De Pistão
* Dap: Pistões Duplos Alf
* Ap: Pistão Alfinl
* Ys: Pistões Refrigerados A Óleo
* Cpu: Pistões De Aço
* Ha: Revestimento Anodizado Duro
* Pdb: Ônibus Pinhole</p> <p>15 - Pin Diâmetro - Altura - Recursos</p> <p>16 - Características Do Segmento</p> | <p>17 - Projeção Cruzeta</p> <p>18 - Diâmetro</p> <p>19 - Código De Pistão +</p> <p>20 - Código De Camisa</p> <p>21 - Código Kit</p> <p>22 - Diâmetro Exterior Do Cilindro</p> <p>23 - Diâmetro Camisas Flange</p> <p>24 - Camisa De Corpo Inteiro</p> <p>25 - Flange Bill Espessura</p> <p>26 - Tipo E Características Camisa
*WS : Liner Wet semi-acabados
*WF : Liner Wet acabamento completo
*DS : Liner seca semi-acabados
*DF : Liner seca acabamento completo
*AF : Refrigerado a ar acabamento completo
*PH : Fosfato
*CR : Cromado
*HR : Endurecido
*NT : Nitrito
*HT : Tratamento termico
*STEEL : Aço</p> <p>27 - Motor comum</p> <p>28 - Código De Vedação</p> |
|--|--|

	Type		B 	C 		
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60,000

MERCEDES BENZ OM457 / Voith-Nr: LP 490

K

1 Cyl

cc

kW

(ps)

	11-01115-000 CH 25,000 TL 50,000		91-09108-000 1 2,000 P 2 2,000 P 3 3,000 P		Ø 60,000	31-03115-000
	14,00x53,00					
	K=65,40 L=81,00 H=7,00 D=88,00	CF		O-Ring/Seal 55-50920-000 1 FPM 64,00x3,00 1 FPM 67,00x3,00	51-95174-000 52-95174-000	71-08871-000 72-08871-000

75,000

SCANIA(HAVA SOGUTMALI 15W37 WB15)

K

2 Cyl

SCANIA(SU SOGUTMALI 15.5W31 WB31)

K

2 Cyl

	11-01910-000 CH 32,200 TL 52,800		91-09910-000 1 2,385 P 2 2,385 P 3 3,947 P		Ø 75,000 Ø 75,250 Ø 75,500 Ø 75,750 Ø 76,000	31-03910-000 31-03910-010 31-03910-020 31-03910-030 31-03910-040
	15,88x60,40					

75,000

DAF

K 1960

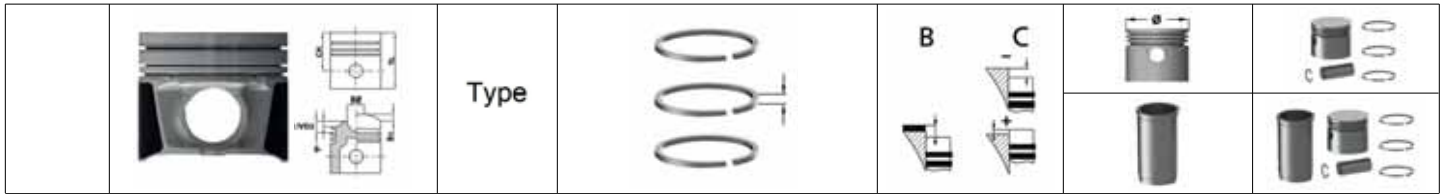
2 Cyl

VOLVO

K 1960

1 Cyl

	11-01911-000 CH 31,000 TL 60,000		91-09011-000 1 2,000 P 2 2,000 P 3 4,000 P		Ø 75,000 Ø 75,250 Ø 75,500	31-03911-000 31-03911-025 31-03911-050
	18,00x62,90		99-09011-000 1 2,000 P 2 2,000 P 3 4,000 P			39-03911-000 39-03911-025 39-03911-050



75,000

DAF	K	1960	2 Cyl
VOLVO	K	1960	1 Cyl

 11-02802-000 CH 28,000 TL 57,000 15,00x50,00		91-09011-000 1 2,000 2 2,000 3 4,000		Ø 75,000 Ø 75,250 Ø 75,500 Ø 75,750 Ø 76,000	31-04802-000 31-04802-025 31-04802-050 31-04802-075 31-04802-100
		99-09011-000 1 2,000 2 2,000 3 4,000			

78,000

KOMPRESSOR	K		1 Cyl
R.V.I BERLIET MIDR 06.23.06 A41	K		1 Cyl

 11-02926-000 CH 31,000 TL 60,000 18,00x63,00		91-09926-000 1 2,500 2 2,500 3 4,000		Ø 78,000	31-04926-000
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82,000


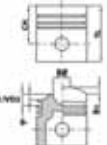
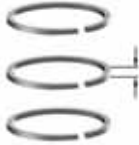






IVECO	K		2 Cyl
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 11-02855-000 CH 28,500 TL 52,100 14,00x72,00		91-09752-000 1 2,500 P 2 2,500 P 3 4,000 P		Ø 82,000 Ø 82,500	31-04855-000 31-04855-050
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85,000

MERCEDES BENZ OM 457 LA Euro 3	K		1 Cyl
MERCEDES BENZ OM 457 LA Euro 4	K		1 Cyl

 11-01607-000 CH 33,300 TL 59,000 19,05x60,00		91-09607-000 1 2,000 2 2,000 3 4,000		Ø 85,000 Ø 85,250 Ø 85,500 Ø 85,750 Ø 86,000	31-03607-000 31-03607-025 31-03607-050 31-03607-075 31-03607-100
--	--	--	--	--	--







		Type		 B  C	 	 
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86,000

IVECO CURSOR 10-13

K

1 Cyl











 	11-01107-000 CH 26,500 TL 56,800		91-09113-000 1 2,000  P 2 2,000  P 3 3,000  P		Ø 86,000 Ø 86,250 Ø 86,500 Ø 86,750 Ø 87,000	31-03107-000 31-03107-025 31-03107-050 31-03107-075 31-03107-100
	18,00x63,00					

88,000

MERCEDES BENZ OM 366 LA

K

1 Cyl












 	11-02801-000 CH 31,500 TL 65,600		91-09116-000 1 2,500  P 2 2,500  P 3 4,000  P		Ø 88,000 Ø 88,250 Ø 88,500 Ø 88,750 Ø 89,000	31-04801-000 31-04801-025 31-04801-050 31-04801-075 31-04801-100
	18,00x63,00					
 	K=95,00 L=97,00 H=85,00	CF			51-95184-000	71-08838-000
 	K=95,00 L=98,50 H=91,00	CF			51-96164-000	71-08851-000

90,000

MERCEDES BENZ LP490

K

1 Cyl

 	11-01618-000 CH 35,000 TL 57,500		91-09618-000 1 2,500  P 2 2,500  P 3 2,500  P 4 4,000  P		Ø 90,000 Ø 90,100 Ø 90,500 Ø 91,000	31-03618-000 31-03618-010 31-03618-050 31-03618-100
	20,00x60,00					
 	K=95,00 L=104,00 H=94,00	CF			51-95626-000	71-07618-000
 	K=95,00 L=104,00 H=94,00	CF			51-95627-000	71-07617-000

	Type				

90,000

D 2530,2538,2555,2556,2566

K

1 Cyl

	11-01619-000 CH 35,000 TL 57,500 20,00x60,00		91-09618-000 1 2,500 P 2 2,500 P 3 4,000 P		Ø 90,000 Ø 90,100 Ø 90,500 Ø 91,000	31-03619-000 31-03619-010 31-03619-050 31-03619-100
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	K=95,00 L=104,00 H=94,00	CF			51-95626-000	71-07619-000
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	K=95,00 L=104,00 H=94,00	CF			51-95627-000	71-07010-000
--	--------------------------------	----	--	--	--------------	--------------

92,000

FORD NHDD

K

1 Cyl

MAN D2066 KOMPRESOR

K

1 Cyl

	11-01101-000 CH 31,000 TL 67,900 18,00x63,00		91-09123-000 1 2,500 2 2,500 3 4,000		Ø 92,000 Ø 92,250 Ø 92,500 Ø 92,750 Ø 93,000	31-03101-000 31-03101-025 31-03101-050 31-03101-075 31-03101-100
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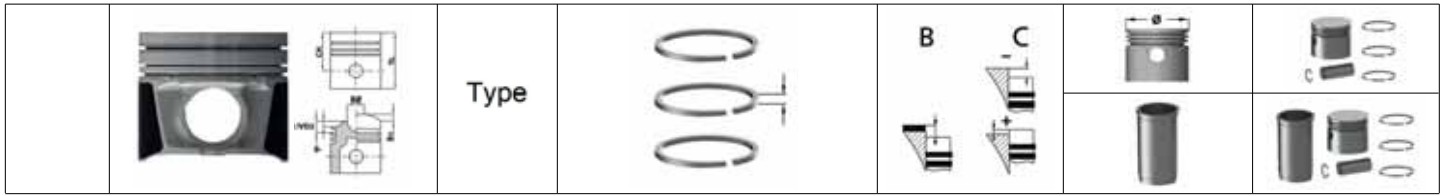
92,000

MERCEDES BENZ OM457 / Voith-Nr: LP 490

K

1 Cyl

	11-01119-000 CH 31,050 TL 60,950 18,00x63,00		1 2,500 2 2,500 3 3,000		Ø 92,000	31-03119-000
	K=98,00 L=122,00 H=7,00 D=126,00	CF		O-Ring/Seal 55-50921-000 1 FPM 98,00x3,00	51-95179-000 52-95179-000	71-08872-000 72-08872-000






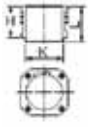
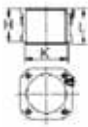
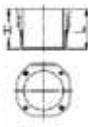
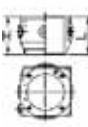
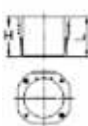
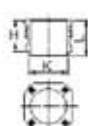


100,000

MERCEDES BENZ OM501 HAVA KOMP.

K 1996

1 Cyl

 11-02712-000 CH 30,400 TL 52,200  20,00x50,00			91-09620-000 1 2,500  CR 2 2,500  P 3 4,000  P		Ø 100,000	31-04712-000
	K=106,00 L=101,00 H=89,00	CF			51-95180-000	71-08848-000
	K=106,00 L=91,00 H=84,00	CF			51-95181-000	71-08836-000
	K=115,00 L=102,70 H=102,70	CF			51-95188-000	71-08835-000
	L=102,00 H=102,00	WS			51-95576-000	71-08842-000
	K=115,00 L=102,00 H=102,00	CF			51-95622-000	71-08622-000
	K=106,00 L=101,00 H=89,00	CF			51-95623-000	71-08623-000

100,000

MAN KOMP.

K 1996

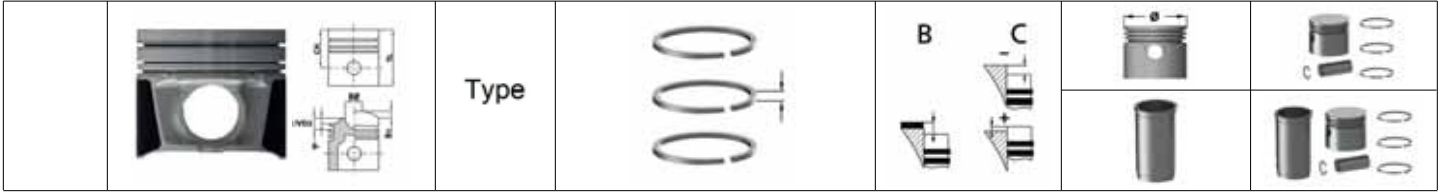
1 Cyl

MERCEDES BENZ OM442-501-502-541-542

K

1 Cyl


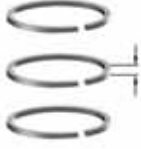






	11-02752-000 CH 30,400 TL 52,200 20,00x50,00		91-09122-000 1 2,500 P 2 2,500 P 3 3,000 CrP		Ø 100,000	31-04752-000
	K=106,00 L=101,00 H=89,00	CF			51-95180-000	71-08849-000
	K=106,00 L=91,00 H=84,00	CF			51-95181-000	71-08837-000
	K=115,00 L=102,70 H=102,70	CF			51-95188-000	71-08834-000
	L=102,00 H=102,00	WS			51-95576-000	71-08843-000
	K=115,00 L=102,00 H=102,00	CF			51-95622-000	71-08822-000
	K=106,00 L=101,00 H=89,00	CF			51-95623-000	71-08824-000



137,000
 8210.42L. D 1993 6 Cyl






 11-02825-000 CH 92,000 B- 21,000 BØ 83,800 TL 157,000 50,00x115,00	AP YS HA PDB	91-09854-000 1 4,000 CR 2 3,000 CR 3 5,500 CR	Ø 137,000	31-04825-000
	Astra ve Iveco ile Ortak Motor			


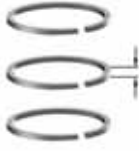
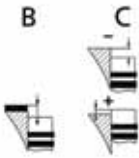

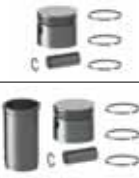

 K=143,00 L=282,00 H=6,05 D=147,00	DF-PH			51-35418-000	71-07421-000
 K=143,02 L=282,00 H=6,05 D=147,00	DF-PH +0,02			51-35418-002	
 K=143,05 L=282,00 H=6,05 D=147,00	DF-PH +0,05			51-35418-005	
 K=143,25 L=282,00 H=6,05 D=147,00	DF-PH +0,25			51-35418-025	
 K=143,50 L=282,00 H=6,05 D=147,00	DF-PH +0,50			51-35418-050	
 K=143,00 L=282,00 H=6,05 D=149,00	DF			51-35447-000	71-07422-000
 K=143,05 L=282,00 H=6,05 D=149,00	DF +0,05			51-35447-005	
 K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25			51-35447-025	
 K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50			51-35447-050	

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

84,000








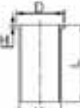

403D-15T / 15G / 17 Euro 3 D 3 Cyl 1496cc 13-30kW (18-41ps)

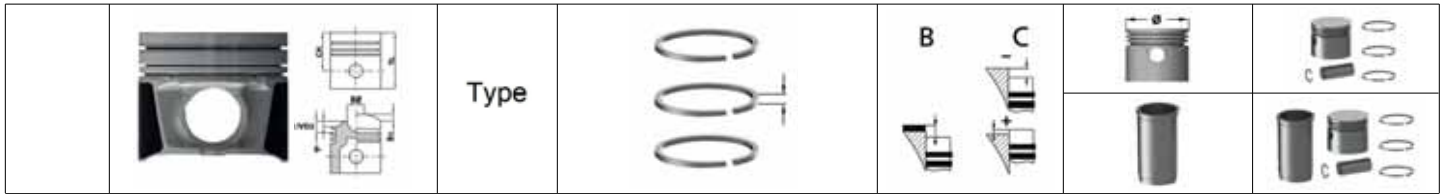
	<p>11-02959-000 CH 47,700 VD1 1,600 B- 1,600 TL 87,700</p>	<p>91-09769-000 1 2,000  CR 2 1,500  CrP 3 3,000  CR</p>	<p>Ø 84,000 Ø 84,500</p>	<p>31-04959-000 31-04959-050</p>
	<p> 28,00x72,00</p>			
<p>Atlas Copco ve Perkins ile Ortak Motor</p>				

	Type		B	C		
						

103,180

10.220	D	1961	1974	4 Cyl	3611cc	49-55kW	(66-74ps)
5, J 330	D	1961	1983	6 Cyl	5417cc	73-82kW	(100-111ps)

	11-01310-000 CH 71,500 B- 21,500 BØ 52,900 TL 118,240		91-09310-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 4,747  P 5 4,747  P		Ø 103,180 Ø 103,680 Ø 103,930 Ø 104,180	31-03310-000 31-03310-020 31-03310-030 31-03310-040
	K=108,05 L=216,30 H+F= + D=	DS			51-65309-000	
	K=108,05 L=216,30 H=6,00 D=111,12	DS			51-65310-000	
	K=108,50 L=216,30 H=6,00 D=111,12	DS +0,50			51-65310-050	


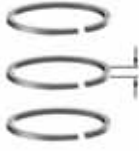
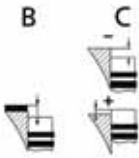







98,000	
4.98 NV	D 1974 4 Cyl 3770cc 46-55kW (62-72ps)
6.98 DV / NV	D 1972 6 Cyl 5665cc 71-85kW (97-115ps)

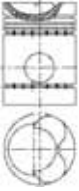






<p>11-01338-000 CH 68,200 VD1 2,400 B- 25,000 BØ 56,000 TL 116,300</p> <p>34,93x82,50</p>	<p>91-09338-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 6,350 CrP 5 4,747 P</p>	0/+0,20	Ø 98,000	31-03338-000
<p>K=108,18 L=221,60 H+F=8,89+0,89 D=117,10</p>	WF-PH		51-05338-050	
<p>K=108,70 L=221,60 H+F=9,50+0,89 D=117,60</p>	WF-PH +0,50		51-05340-000	71-07340-000
<p>K=116,00 L=222,00 H+F=20,00+0,80 D=123,65</p>	WF-OS			


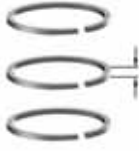
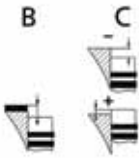

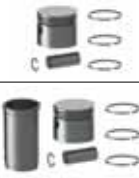



100,000	
1042	D 3 Cyl 2800cc 32kW (44ps)
OEE	D 4 Cyl 3770cc 44kW (60ps)

<p>11-01339-000 CH 70,300 B- 27,000 BØ 57,000 TL 121,000</p> <p>34,93x84,50</p>	<p>91-09339-000</p> <p>1 3,947 CR 2 2,385 P 3 2,385 P 4 6,335 CR 5 6,335 P</p>		Ø 100,000	31-03339-000
<p>K=110,62 L=221,60 H+F=8,90+0,80 D=117,05</p>	WF-OS		51-05345-000	71-07146-000
<p>K=116,00 L=222,00 H+F=20,00+0,80 D=123,65</p>	WS		51-05346-000	71-07341-000

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

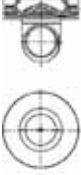

146,000

Buldozer Heavy Duty		D	8 Cyl	cc	kW	(ps)
 <p>11-02405-000 CH 132,500 VD1 7,600 B- 25,000 BØ 104,500 TL 208,000</p>  <p>60,00x119,60</p>	<p>91-09405-000</p> <p>1 4,500  CrP</p> <p>2 2,500  P</p> <p>3 2,500  P</p> <p>4 6,500  CrP</p> <p>5 6,500  CrP</p>				Ø 146,000	31-04405-000

	Type		 		
					

105,000

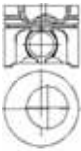




3116 D Cyl

	11-01175-000 CH 59,157 B- 17,600 BØ 59,000 TL 87,000  40,00x85,09	PDB STEEL PISTON	1 3,000 2 3,000 3 4,000		Ø 105,000	

114,300

3204 10.4L D

3204 5.2L D

	11-01194-000 CH 58,930 B- 20,930 BØ 63,500 TL 93,230  38,10x81,40	AP	91-09198-000 1 3,160  MoP 2 2,778  CR		Ø 114,300	31-03194-000
	K=119,14 L=196,85	DS			51-65355-000	

	Type				
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120,650

3304 / 3306

D

	11-01022-000 CH 74,000 VD1 2,000 B- 17,900 BØ 85,000 TL 130,000 43,18x94,80	DAP	1 3,175 2 3,175 3 4,000		Ø 120,650	31-03022-000
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120,650

3304

D

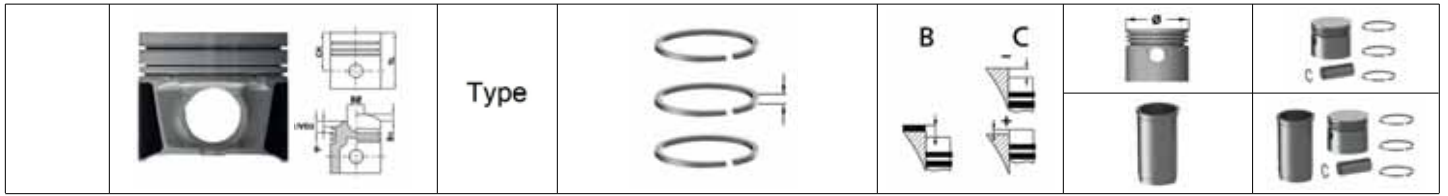
4 Cyl 7000cc

3306

D

6 Cyl 10500cc

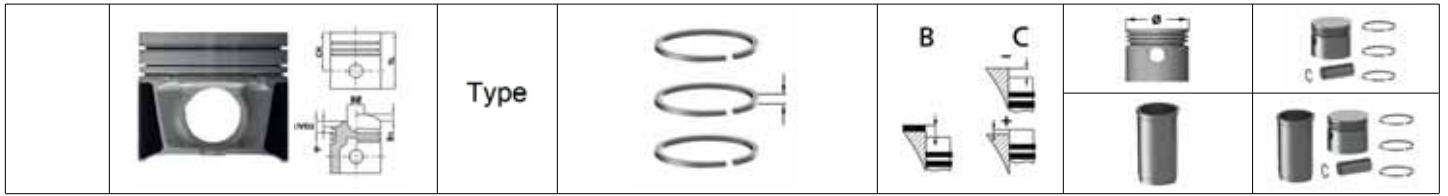
	11-01204-000 CH 73,900 VD1 6,670 VD2 7,250 B- 14,200 BØ 101,600 TL 115,050 38,12x95,00	DAP	91-09204-000 1 3,160 CrP 2 2,385 CrP 3 5,535 CrP	-0,45/+0,06	Ø 120,650	31-03204-000
	K=134,45 L=255,00 H+F=11,30+1,00 D=144,70	WF-OS			51-05258-000	71-07205-000
	K=134,40 L=255,00 H+F=10,30+1,00 D=142,80	WF-HR		O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00	51-05331-000 52-05331-000	71-07113-000 72-07113-000
	K=134,40 L=255,00 H+F=10,30+1,00 D=142,80	WF		O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00	51-05352-000 52-05352-000	71-07204-000 72-07204-000
	K=139,00 L=255,00 H+F=15,00+1,00 D=146,00	WF-OS			51-05358-000	71-07047-000








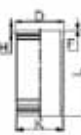

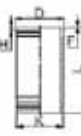
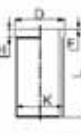
120,650

D 3306 D 6 Cyl 10500cc 78-147kW (106-200ps)

<p>11-01209-000 CH 73,910 VD1 2,030 B- 19,700 BØ 85,090 TL 129,910</p> <p>43,18x94,90</p>	<p>DAP</p>	<p>91-09205-000 1 3,120 CrP 2 3,120 CrP 3 3,160 CrP</p>	<p>-0,45/+0,06</p>	<p>Ø 120,650</p>	<p>31-03209-000</p>
	<p>K=134,45 L=255,00 H+F=11,30+1,00 D=144,70</p>	<p>WF-OS</p>		<p>51-05258-000</p>	<p>71-07206-000</p>
	<p>K=134,40 L=255,00 H+F=10,30+1,00 D=142,80</p>	<p>WF-HR</p>	<p>O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00</p>	<p>51-05331-000 52-05331-000</p>	<p>71-07122-000 72-07122-000</p>
	<p>K=134,40 L=255,00 H+F=10,30+1,00 D=142,80</p>	<p>WF</p>	<p>O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00</p>	<p>51-05352-000 52-05352-000</p>	<p>71-07209-000 72-07209-000</p>
	<p>K=139,00 L=255,00 H+F=15,00+1,00 D=146,00</p>	<p>WF-OS</p>		<p>51-05358-000</p>	<p>71-07005-000</p>



120,650
 D 3306 D 6 Cyl 10500cc 78-147kW (106-200ps)

 11-01210-000 CH 73,910 VD1 2,030 B- 19,700 BØ 85,090 TL 129,910  43,18x94,90	DAP	91-09210-000 1 3,120  CrP 2 3,120  CrP 3 4,000  CrP		Ø 120,650	31-03210-000
 K=134,45 L=255,00 H+F=11,30+1,00 D=144,70	WF-OS			51-05258-000	71-07207-000
 K=134,40 L=255,00 H+F=10,30+1,00 D=142,80	WF-HR		O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00	51-05331-000 52-05331-000	71-07120-000 72-07120-000
 K=134,40 L=255,00 H+F=10,30+1,00 D=142,80	WF		O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00	51-05352-000 52-05352-000	71-07210-000 72-07210-000
 K=139,00 L=255,00 H+F=15,00+1,00 D=146,00	WF-OS			51-05358-000	71-07121-000

	Type				
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120,650

3304	D	4 Cyl	7000cc	46-97kW	(62-130ps)
3306	D	6 Cyl	10500cc	78-147kW	(106-200ps)

	11-01211-000 CH 73,900 VD1 6,670 VD2 7,250 B- 14,200 BØ 101,600 TL 115,050 38,12x95,00	DAP	91-09204-000 1 3,160 CrP 2 2,385 CrP 3 5,535 CrP		Ø 120,650	31-03211-000
	K=134,45 L=255,00 H+F=11,30+1,00 D=144,70	WF-OS			51-05258-000	71-07208-000
	K=134,40 L=255,00 H+F=10,30+1,00 D=142,80	WF-HR		O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00	51-05331-000 52-05331-000	71-07115-000 72-07115-000
	K=134,40 L=255,00 H+F=10,30+1,00 D=142,80	WF		O-Ring/Seal 55-50911-000 1 NBR 130,00x132,20x6,00 3 NBR 117,00x4,00	51-05352-000 52-05352-000	71-07211-000 72-07211-000
	K=139,00 L=255,00 H+F=15,00+1,00 D=146,00	WF-OS			51-05358-000	71-07114-000

125,000

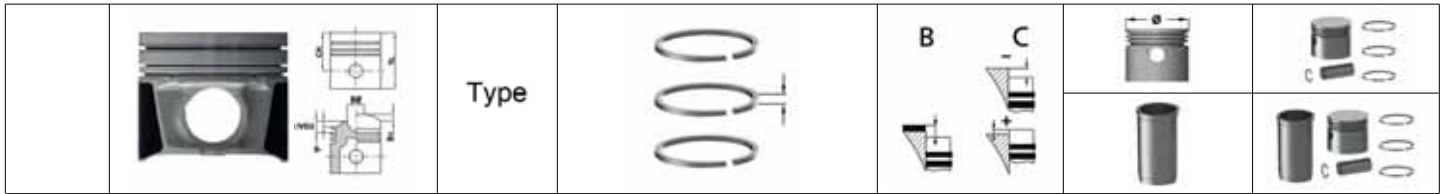
C10	D	6 Cyl	cc	kW	(ps)
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	11-01025-000 CH 70,050 B- 14,600 BØ 90,000 TL 104,250	PDB	1 4,000 2 3,000 3 4,000		Ø 125,000	
		STEEL PISTON				

129,540







C12	D	6 Cyl			
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	11-01026-000 CH 69,550 B- 16,000 BØ 94,800 TL 105,500	PDB	1 4,000 2 3,000 3 4,000		Ø 129,540	
		STEEL PISTON				



137,160







340614.6L D 8 Cyl

 	<p>11-02547-000 CH 88,000 B- 18,000 BØ 94,000 TL 138,100</p> <p> 50,80x112,00</p>	DAP	<p>91-09553-000</p> <p>1 3,969  Mo 2 3,175  CR 3 3,175  CrP</p>		Ø 137,160	31-04547-000
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137,160







340614.6L D 8 Cyl 14600cc 261kW (355ps)

340818.0L D 8 Cyl 18000cc 317kW (431ps)

 	<p>11-02548-000 CH 88,000 B- 16,750 BØ 94,000 TL 138,100</p> <p> 50,80x112,00</p>	DAP	<p>91-09553-000</p> <p>1 3,969  Mo 2 3,175  CR 3 3,175  CrP</p>		Ø 137,160	31-04548-000
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137,160

3408 / 18.0L1099CID D 8 Cyl 18000cc 231kW (314ps)

 	<p>11-02549-000 CH 88,000 B- 16,100 BØ 94,000 TL 138,100</p> <p> 50,80x112,00</p>	DAP	<p>91-09553-000</p> <p>1 3,969  Mo 2 3,175  CR 3 3,175  CrP</p>		Ø 137,160	31-04549-000
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137,160

3406 / 14.6893CID D 8 Cyl 14600cc 261-317kW (355-431ps)

 	<p>11-02550-000 CH 88,000 B- 18,500 BØ 94,000 TL 138,100</p> <p> 50,80x112,00</p>	DAP	<p>91-09553-000</p> <p>1 3,969  Mo 2 3,175  CR 3 3,175  CrP</p>		Ø 137,160	31-04550-000
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137,160

3406 / 14.6893CID D 8 Cyl 14600cc 213-246kW (289-335ps)

 	<p>11-02551-000 CH 88,000 B- 17,800 BØ 94,000 TL 138,100</p> <p> 50,80x112,00</p>	DAP	<p>91-09553-000</p> <p>1 3,969  Mo 2 3,175  CR 3 3,175  CrP</p>		Ø 137,160	31-04551-000
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		Type					
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137,160

3406 Turbo Intercooled	D	6 Cyl	cc	kW	(ps)
3408 Turbo Intercooled	D	8 Cyl	cc	kW	(ps)
3412 Turbo Intercooled	D	12 Cyl	cc	kW	(ps)

	11-02553-000 CH 87,930 B- 17,900 BØ 94,000 TL 137,300	DAP	91-09553-000 1 3,969 Mo 2 3,175 CR 3 3,175 CrP	-1,80/-2,10	Ø 137,160	31-04553-000
	50,80x112,00					
	K=153,65 L=274,50 H+F=8,90+1,00 D=165,15	WF-CR			51-05329-000	71-08554-000
	K=153,65 L=274,50 H+F=8,90+1,00 D=165,15	WF-HR			51-05349-000	71-08553-000

137,160


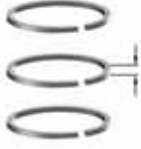






3406 / 14.6L893 CID crown gallery cooled	D	8 Cyl			
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	11-02630-000 CH 88,100 B- 20,000 BØ 94,000 TL 138,100	DAP YS	91-09553-000 1 3,969 Mo 2 3,175 CR 3 3,175 CrP		Ø 137,160	31-04630-000
	50,80x112,00					

146,050






D13000	D	1954	8 Cyl	20400cc
D339	D	1954	8 Cyl	13620cc
D375D	D	1954	8 Cyl	27250cc
D397D	D	1954	8 Cyl	40800cc

	11-02556-000 CH 131,700 VD1 6,730 B- 21,870 BØ 128,500 TL 207,980	DAP	91-09615-000 1 3,947 CR 2 3,947 CR 3 6,335 CR	0,6	Ø 146,050	31-04556-000
	60,71x120,30					
	K=168,07 L=382,50 H+F=12,70+1,00 D=177,40	WF			51-05368-000	71-08556-000

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

99,000






F32 MNT Euro 3 D 4 Cyl 3200cc 53-65kW (72-88ps)

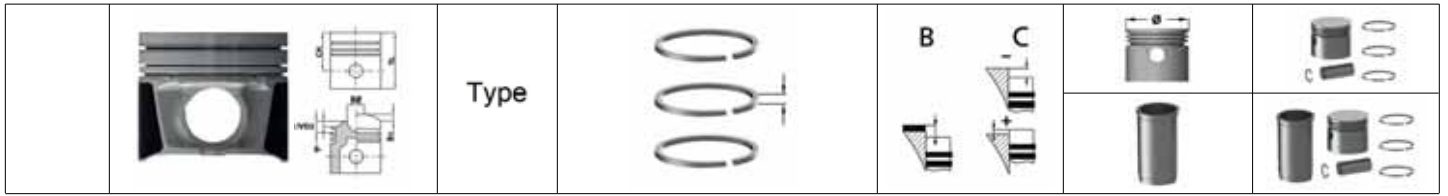
	<p>11-02827-000 CH 62,500 B- 19,900 BØ 50,000 TL 93,000</p>	<p>AP</p>	<p>91-09692-000 1 2,500  CdC 2 2,000  CK 3 2,500 </p>	<p>Ø 99,000 Ø 99,400</p>	<p>31-04827-000 31-04827-040</p>
	<p> 36,00x81,00</p>		<p>Claas ve Fiat / Iveco ile Ortak Motor</p>		

	<p>K=103,00 L=174,00 H=5,00 D=105,00</p>	<p>DS</p>	<p>51-65750-000</p>
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105,000






1104D-E44T Euro 3 D 4 Cyl 4400cc 55-75kW (75-102ps)

	<p>11-02963-000 CH 70,116 B- 15,700 BØ 76,600 TL 108,050</p>	<p>AP</p>	<p>91-09771-000 1 3,000  CK 2 2,500  P 3 3,000 </p>	<p>Ø 105,000</p>	<p>31-04963-000</p>
	<p> 39,70x86,00</p>		<p>Claas ve Perkins ile Ortak Motor</p>		








94,000

ISF2.8 D 4 Cyl cc kW (ps)

 11-02969-000 CH 48,700 B- 16,300 BØ 51,900 TL 76,000  34,50x73,00	AP YS	91-09365-000 1 2,500  CK St	Ø 94,000 Ø 94,500	31-04969-000 31-04969-050
		2 2,000  P 3 3,000  CrP		






102,000

6BT 5.9L E17 D 6 Cyl

 11-01362-000 CH 71,580 B- 22,100 BØ 51,400 TL 105,390  40,00x83,00	AP	91-09370-000 1 3,000  CR	Ø 102,000 Ø 102,500	31-03362-000 31-03362-050
		2 2,350  P 3 4,000  CrP		

102,000






4B 3.9 C Euro 2	D	4 Cyl	3900cc
4BT 3.9 Euro 2	D	4 Cyl	3900cc
4BTA 3.9 Euro 2	D	4 Cyl	3900cc
6B 5.9 C Euro 2	D	6 Cyl	5883cc
6BT / 6BTA 5.9 Euro 2	D	6 Cyl	5883cc

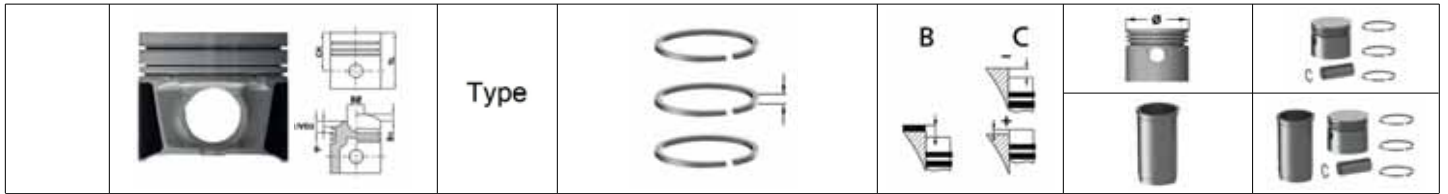
 11-01363-000 CH 71,560 B- 17,700 BØ 59,100 TL 105,360  40,00x75,68	AP	91-09370-000 1 3,000  CR	Ø 102,000 Ø 102,500	31-03363-000 31-03363-050
		2 2,350  P 3 4,000  CrP		

Cummins ve Volvo ile Ortak Motor

102,000



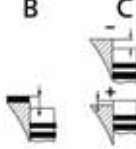

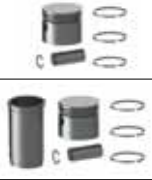
ISB 135 / 150 / 170 Euro 3	D	4 Cyl	3900cc	99-125kW	(135-170ps)
ISB 185 / 220 / 250 / 275 Euro 3	D	6 Cyl	5900cc	136-202kW	(185-275ps)

 11-01365-000 CH 71,400 B- 18,500 BØ 56,500 TL 105,200  40,00x83,00	AP	91-09370-000 1 3,000  CR	Ø 102,000 Ø 102,500 Ø 103,000	31-03365-000 31-03365-020 31-03365-040
		2 2,350  P 3 4,000  CrP		








102,000							
4B 3.9C Euro2		D		4 Cyl	3900cc	55-60kW	(75-82ps)
4BT 3.9 Euro2		D		4 Cyl	3900cc	60-82kW	(82-111ps)
4BTA 3.9 Euro2		D 1991		4 Cyl	3900cc	82-97kW	(111-132ps)
6B 5.9C / 6BTA 5.9 Euro2		D		6 Cyl	5880cc	86-132kW	(115-177ps)
6BT 5.9 Euro2		D 1991		6 Cyl	5880cc	86-132kW	(115-177ps)

<p>11-01370-000 CH 71,560 B- 17,600 BØ 59,150 TL 105,360</p> <p> 40,00x75,80</p>	AP	<p>91-09370-000</p> <p>1 3,000 CR 2 2,350 P 3 4,000 CrP</p>	+0,33/+0,66	<p>Ø 102,000 Ø 102,500 Ø 103,000</p>	<p>31-03370-000 31-03370-020 31-03370-040</p>
<p>K=137,50 L=246,60 H+F=12,00+0,60 D=149,00</p>	WF-PH			51-05573-000	71-07368-000
<p>K=106,07 L=204,00 H+F=4,05+0,80 D=109,00</p>	DF			51-35328-000	71-07369-000
<p>K=104,62 L=200,00</p>	DF			51-35333-000	71-07370-000
<p>K=106,07 L=204,00 H+F=4,05+0,80 D=109,00</p>	DS			51-65370-000	
<p>K=106,50 L=204,00 H+F=5,05+0,80 D=109,50</p>	DS +0,50			51-65370-050	
<p>K=107,07 L=204,00 H+F=5,05+0,80 D=110,00</p>	DS +1,00			51-65370-100	
<p>K=107,50 L=204,00 H+F=5,05+0,80 D=110,50</p>	DS +1,50			51-65370-150	

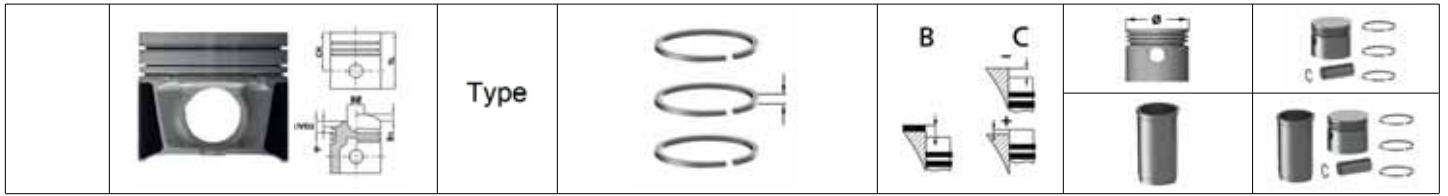
	Type				
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102,000

4BTA 3.9 Euro1	D	4 Cyl	3920cc	57-97kW	(78-132ps)
6BTA A5.9	D 1991	6 Cyl	5880cc	144kW	(193ps)

	11-01372-000 CH 71,560 B- 17,900 BØ 63,500 TL 105,360	AP	91-09370-000 1 3,000  CR 2 2,350  P 3 4,000  CrP	+0,33/+0,66	Ø 102,000 Ø 102,500 Ø 103,000	31-03372-000 31-03372-020 31-03372-040
	40,00x75,80	Cummins ve Daf ile Ortak Motor				

	K=106,07 L=204,00 H+F=4,05+0,80 D=109,00	DF			51-35328-000	71-07377-000
	K=104,62 L=200,00	DF			51-35333-000	71-07373-000
	K=106,07 L=204,00 H+F=4,05+0,80 D=109,00	DS			51-65370-000	
	K=106,50 L=204,00 H+F=5,05+0,80 D=109,50	DS +0,50			51-65370-050	
	K=107,07 L=204,00 H+F=5,05+0,80 D=110,00	DS +1,00			51-65370-100	
	K=107,50 L=204,00 H+F=5,05+0,80 D=110,50	DS +1,50			51-65370-150	
	K=104,62 L=200,00	DS			51-65373-000	
	K=105,06 L=200,00	DS +0,50			51-65373-050	



102,000
 B215 / 235.20 Euro2 D 2003 6 Cyl 5880cc kW (215-235ps)

	<p>11-01374-000 CH 71,620 B- 22,000 BØ 51,250 TL 105,400</p> <p> 40,00x83,00</p>	<p>AP</p>	<p>91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP</p>	<p>+0,33/+0,66</p>	<p>Ø 102,000 Ø 102,500</p>	<p>31-03374-000 31-03374-050</p>
	<p>K=106,07 L=204,00 H+F=4,05+0,80 D=109,00</p>	<p>DF</p>			<p>51-35328-000</p>	<p>71-07387-000</p>
	<p>K=104,62 L=200,00</p>	<p>DF</p>			<p>51-35333-000</p>	<p>71-07374-000</p>
	<p>K=106,07 L=204,00 H+F=4,05+0,80 D=109,00</p>	<p>DS</p>			<p>51-65370-000</p>	
	<p>K=106,50 L=204,00 H+F=5,05+0,80 D=109,50</p>	<p>DS +0,50</p>			<p>51-65370-050</p>	
	<p>K=107,07 L=204,00 H+F=5,05+0,80 D=110,00</p>	<p>DS +1,00</p>			<p>51-65370-100</p>	
	<p>K=107,50 L=204,00 H+F=5,05+0,80 D=110,50</p>	<p>DS +1,50</p>			<p>51-65370-150</p>	
	<p>K=104,62 L=200,00</p>	<p>DS</p>			<p>51-65373-000</p>	
	<p>K=105,06 L=200,00</p>	<p>DS +0,50</p>			<p>51-65373-050</p>	

		Type					
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102,000

Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston

Cyl cc (ps)

	11-01374-001 CH 71,420 B- 22,000 BØ 51,250 TL 105,400 40,00x83,00	AP CH -0,20 mm	91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP		Ø 102,000 Ø 102,500	31-03374-001 31-03374-051
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102,000

ISB 160.10 Euro1

D 2002

ISBe4 185B

D 2002

	11-01377-000 CH 71,620 B- 20,700 BØ 54,000 TL 105,400 40,00x83,00	AP	91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP		Ø 102,000 Ø 102,500	31-03377-000 31-03377-050
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102,000

ISF2.8S D 4 Cyl 2776cc 79-109kW (107-148ps)

ISF3.8S D 4 Cyl 3759cc 105-123kW (143-154ps)

	11-02352-000 CH 73,900 B- 18,000 BØ 54,700 TL 108,900 40,00x82,70	AP YS	91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP		Ø 102,000	31-04352-000
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102,000

IS B3.9L Euro3 D 2005 4 Cyl 3922cc 104-125kW (140-168ps)

IS B5.9L Euro3 D 2003 6 Cyl 5833cc 164-184kW (220-247ps)

	11-02353-000 CH 71,385 B- 18,550 BØ 56,500 TL 105,200 40,00x83,00	AP YS	91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP		Ø 102,000 Ø 102,500	31-04353-000 31-04353-050
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	Type			
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102,000

6BT Turbo D 1989 1998 6 Cyl 5880cc 119-160kW (162-218ps)

 11-02428-000 CH 71,600 B- 22,150 BØ 52,000 TL 105,500 40,00x83,00	DAP	91-09369-000 1 3,000 Mo 2 3,000 P 3 4,000 CrP		Ø 102,000	31-04428-000
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107,000

QSB4.5 D 4 Cyl 4500cc 82-127kW (111-173ps)

 11-02356-000 CH 69,400 B- 22,450 BØ 54,000 TL 103,200 40,00x90,50	AP YS	91-09064-000 1 3,000 CK 2 2,500 P 3 3,500 CrP		Ø 107,000	31-04356-000
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107,000

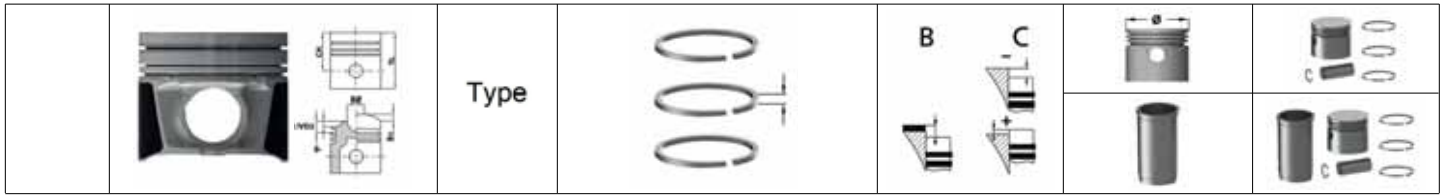
ISBE	D	4 Cyl	4500cc	kW	(ps)
ISDE	D	6 Cyl	6700cc	kW	(ps)

 11-02970-000 CH 69,400 B- 19,460 BØ 59,100 TL 102,900 40,00x89,70	AP YS	91-09064-000 1 3,000 CK 2 2,500 P 3 3,500 CrP		Ø 107,000	31-04970-000
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114,000

ISL 9 D 6 Cyl 8270cc

 11-01364-000 CH 74,300 VD1 1,000 B- 22,200 BØ 80,300 TL 104,500 45,00x90,85	STEEL PISTON	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR		Ø 114,000	31-03364-000
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114,000

6 CT, 6L Dongfeng L 340 D 6 Cyl 8298cc 250kW (340ps)

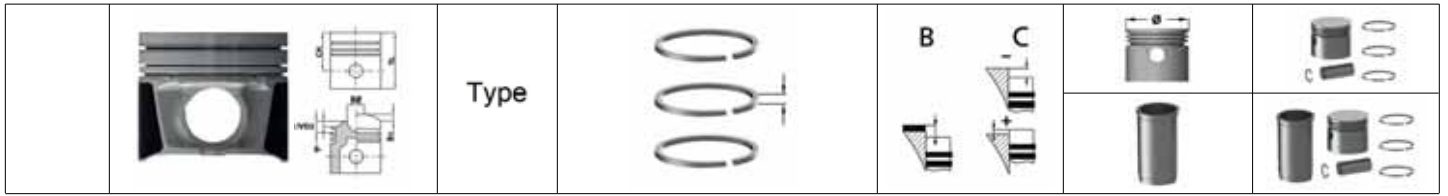
<p>11-01366-000 CH 74,250 VD1 0,950 B- 22,000 BØ 64,800 TL 111,500</p> <p>45,00x91,00</p>	<p>AP</p> <p>YS</p>	<p>91-09366-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 4,000 CR</p>	<p>Ø 114,000</p>	<p>31-03366-000</p>				
	<p>PDB</p>							
	<p>K=125,67 L=235,30 H+F=123,05+1,20 D=130,95</p>				<p>WF-PH</p>	<p>O-Ring/Seal</p> <p>55-50915-000 1 FPM 118,20x122,70x3,95</p>	<p>51-05325-000 52-05325-000</p>	<p>71-07396-000 72-07396-000</p>
	<p>K=125,67 L=235,30 H+F=124,25+1,20 D=131,20</p>				<p>WF-PH</p> <p>+1,20</p>	<p>O-Ring/Seal</p> <p>55-50915-000 1 FPM 118,20x122,70x3,95</p>	<p>51-05325-120 52-05325-120</p>	
<p>K=125,67 L=235,30 H+F=124,55+1,20 D=131,20</p>	<p>WF-PH</p> <p>+1,50</p>		<p>O-Ring/Seal</p> <p>55-50915-000 1 FPM 118,20x122,70x3,95</p>	<p>51-05325-150 52-05325-150</p>				

114,000

6 CTAA D 6 Cyl 8267cc 194kW (263ps)

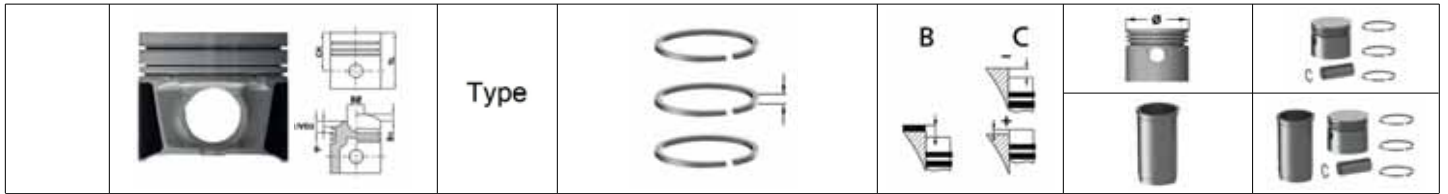
<p>11-01367-000 CH 78,820 B- 25,450 BØ 60,500 TL 120,320</p> <p>45,00x91,10</p>	<p>DAP</p>	<p>91-09371-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 4,000 CR</p>	<p>+0,20/+0,50</p>	<p>Ø 114,000</p>	<p>31-03367-000</p>				
	<p>WF-CR</p>								
	<p>K=125,67 L=235,30 H+F=123,05+1,20 D=130,95</p>					<p>WF-CR</p>	<p>O-Ring/Seal</p> <p>55-50915-000 1 FPM 118,20x122,70x3,95</p>	<p>51-05195-000 52-05195-000</p>	<p>71-07348-000 72-07348-000</p>
	<p>K=125,67 L=235,30 H+F=124,25+1,20 D=131,20</p>					<p>WF-CR</p> <p>+1,20</p>	<p>O-Ring/Seal</p> <p>55-50915-000 1 FPM 118,20x122,70x3,95</p>	<p>51-05195-120 52-05195-120</p>	
<p>K=125,67 L=235,30 H+F=124,55+1,20 D=131,20</p>	<p>WF-CR</p> <p>+1,50</p>		<p>O-Ring/Seal</p> <p>55-50915-000 1 FPM 118,20x122,70x3,95</p>	<p>51-05195-150 52-05195-150</p>					

		Type				
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-PH		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-000 52-05325-000	71-07364-000 72-07364-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-PH +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-120 52-05325-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-PH +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-150 52-05325-150	
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-000 52-05326-000	71-07363-000 72-07363-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-120 52-05326-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-150 52-05326-150	
	K=125,67 L=238,20 H+F=123,09+1,25 D=133,00	WF		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05371-000 52-05371-000	71-07361-000 72-07361-000
	K=125,67 L=238,20 H+F=123,05+1,25 D=130,95	WF		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05372-000 52-05372-000	71-07357-000 72-07357-000
	K=125,67 L=238,20 H+F=124,25+1,25 D=131,20	WF +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05372-120 52-05372-120	
	K=125,67 L=238,20 H+F=124,55+1,25 D=131,20	WF +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05372-150 52-05372-150	




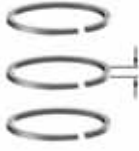
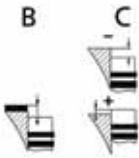

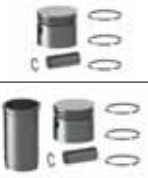




114,000
 6 CTA Euro1 D 6 Cyl 8298cc 160kW (214ps)

 11-01368-000 CH 79,020 B- 25,000 BØ 56,000 TL 120,520 45,00x91,10	DAP HA	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR	+0,20/+0,50	Ø 114,000	31-03368-000
 K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-CR		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-000 52-05195-000	71-07393-000 72-07393-000
 K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-CR +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-120 52-05195-120	
 K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-CR +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-150 52-05195-150	
 K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-PH		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-000 52-05325-000	71-07356-000 72-07356-000
 K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-PH +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-120 52-05325-120	
 K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-PH +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-150 52-05325-150	
 K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-000 52-05326-000	71-07366-000 72-07366-000
 K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-120 52-05326-120	
 K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-150 52-05326-150	








114,000
 6 CTA Euro1 D 6 Cyl 8298cc 160kW (214ps)

 11-01369-000 CH 79,020 B- 21,000 BØ 65,250 TL 120,520 45,00x91,10	DAP HA	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR	+0,20/+0,50	Ø 114,000	31-03369-000
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-CR	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-000 52-05195-000	71-07349-000 72-07349-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-CR +1,20	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-120 52-05195-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-CR +1,50	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-150 52-05195-150	
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-PH	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-000 52-05325-000	71-07354-000 72-07354-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-PH +1,20	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-120 52-05325-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-PH +1,50	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-150 52-05325-150	
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-000 52-05326-000	71-07353-000 72-07353-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF +1,20	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-120 52-05326-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF +1,50	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-150 52-05326-150	

	Type		 		
					






114,000

Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston

				Cyl	cc	kW	(ps)
	11-01369-001 CH 78,820 B- 21,000 BØ 65,250 TL 120,320	DAP HA	91-09371-000 1 3,500  CR 2 3,000  P 3 4,000  CR			Ø 114,000	31-03369-001
	45,00x91,10	CH -0,20 mm					

114,000





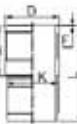

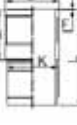
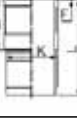
Strok Boyu 0,40mm Kisa Piston / Stroke Length 0,40mm Shorter Piston


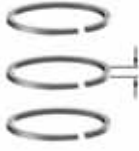
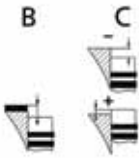

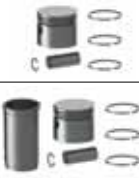









	11-01369-002 CH 78,620 B- 21,000 BØ 56,000 TL 120,120	DAP HA	91-09371-000 1 3,500  CR 2 3,000  P 3 4,000  CR			Ø 114,000	31-03369-002
	45,00x91,10	CH -0,40 mm					

114,000

6CT 8.3 Euro 2

D

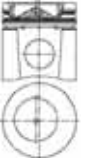




	11-01371-000 CH 78,820 B- 21,800 BØ 63,000 TL 120,320	DAP	91-09371-000 1 3,500  CR 2 3,000  P 3 4,000  CR	+0,20/+0,50		Ø 114,000	31-03371-000
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-CR		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-000 52-05195-000	71-07394-000 72-07394-000	
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-CR +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-120 52-05195-120		
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-CR +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-150 52-05195-150		
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-PH		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-000 52-05325-000	71-07376-000 72-07376-000	

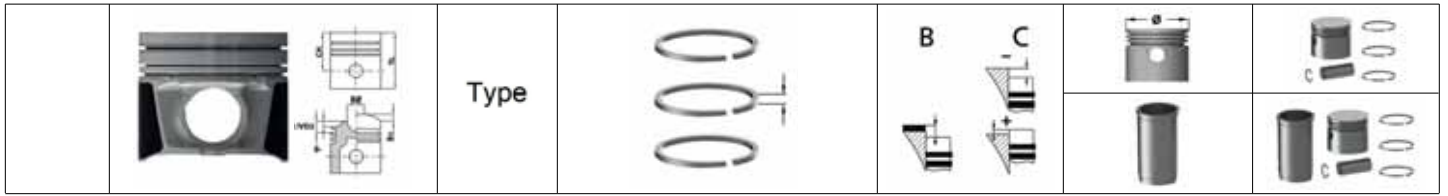
		Type				
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-PH +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-120 52-05325-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-PH +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-150 52-05325-150	
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-000 52-05326-000	71-07367-000 72-07367-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-120 52-05326-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-150 52-05326-150	
	K=125,67 L=238,20 H+F=123,09+1,25 D=133,00	WF		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05371-000 52-05371-000	71-07371-000 72-07371-000
	K=125,67 L=238,20 H+F=123,05+1,25 D=130,95	WF		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05372-000 52-05372-000	71-07372-000 72-07372-000
	K=125,67 L=238,20 H+F=124,25+1,25 D=131,20	WF +1,20		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05372-120 52-05372-120	
	K=125,67 L=238,20 H+F=124,55+1,25 D=131,20	WF +1,50		O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05372-150 52-05372-150	

114,000

Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston

Cyl cc kW (ps)

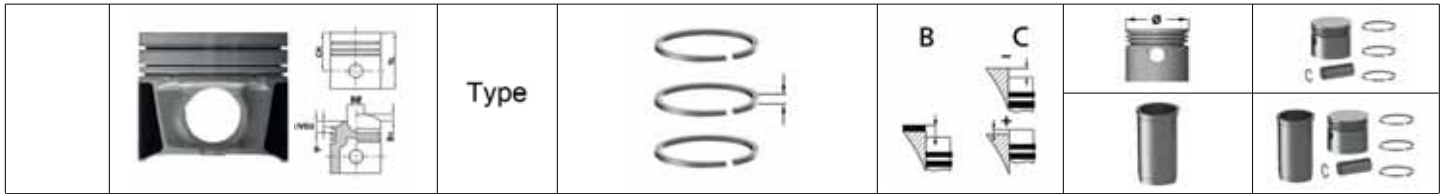
	11-01371-001 CH 78,620 B- 21,800 BØ 63,000 TL 120,120	DAP	91-09371-000 1 3,500  CR 2 3,000  P 3 4,000  CR	+0,20/+0,50	Ø 114,000	31-03371-001
	45,00x91,10					








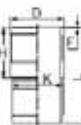

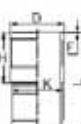


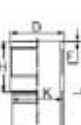
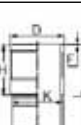
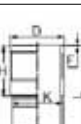
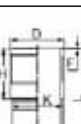
114,000

6 CTA Euro1 D

<p>11-01373-000 CH 79,020 B- 25,000 BØ 56,000 TL 120,520</p> <p>45,00x91,10</p>		DAP	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR		Ø 114,000	31-03373-000
<p>K=125,67 L=235,30 H+F=123,05+1,20 D=130,95</p>		WF-CR		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05195-000 52-05195-000	71-07395-000 72-07395-000
<p>K=125,67 L=235,30 H+F=124,25+1,20 D=131,20</p>		WF-CR +1,20		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05195-120 52-05195-120	
<p>K=125,67 L=235,30 H+F=124,55+1,20 D=131,20</p>		WF-CR +1,50		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05195-150 52-05195-150	
<p>K=125,67 L=235,30 H+F=123,05+1,20 D=130,95</p>		WF-PH		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05325-000 52-05325-000	71-07352-000 72-07352-000
<p>K=125,67 L=235,30 H+F=124,25+1,20 D=131,20</p>		WF-PH +1,20		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05325-120 52-05325-120	
<p>K=125,67 L=235,30 H+F=124,55+1,20 D=131,20</p>		WF-PH +1,50		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05325-150 52-05325-150	
<p>K=125,67 L=235,30 H+F=123,05+1,20 D=130,95</p>		WF		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05326-000 52-05326-000	71-07362-000 72-07362-000
<p>K=125,67 L=235,30 H+F=124,25+1,20 D=131,20</p>		WF +1,20		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05326-120 52-05326-120	
<p>K=125,67 L=235,30 H+F=124,55+1,20 D=131,20</p>		WF +1,50		O-Ring/Seal 55-50915-000 <small>1 FPM 118,20x122,70x3,95</small>	51-05326-150 52-05326-150	



114,000
 6 CT, 6L Dongfeng L 340 D 6 Cyl 8298cc 250kW (340ps)

 11-01387-000 CH 74,250 VD1 0,950 B- 22,000 BØ 64,800 TL 111,500  45,00x91,00	AP YS	91-09366-000 1 3,500  CR 2 3,000  P 3 4,000  CR	1,70mm conta +0,15/+0,48	Ø 114,000	31-03387-000
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-CR	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-000 52-05195-000	71-07397-000 72-07397-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-CR +1,20	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-120 52-05195-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-CR +1,50	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05195-150 52-05195-150	
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF-PH	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-000 52-05325-000	71-07388-000 72-07388-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF-PH +1,20	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-120 52-05325-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF-PH +1,50	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05325-150 52-05325-150	
	K=125,67 L=235,30 H+F=123,05+1,20 D=130,95	WF	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-000 52-05326-000	71-07379-000 72-07379-000
	K=125,67 L=235,30 H+F=124,25+1,20 D=131,20	WF +1,20	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-120 52-05326-120	
	K=125,67 L=235,30 H+F=124,55+1,20 D=131,20	WF +1,50	O-Ring/Seal 55-50915-000 1 FPM 118,20x122,70x3,95	51-05326-150 52-05326-150	

	Type				

114,000

CT 8.3 L	D	6 Cyl	8298cc	kW	(ps)
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	11-02348-000 CH 78,820 B- 21,270 BØ 66,500 TL 120,320	DAP	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR	Ø 114,000	31-04348-000

114,000

6 CT 8,3 L	D	6 Cyl	8298cc		
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	11-02349-000 CH 79,000 B- 27,230 BØ 66,610 TL 120,580	DAP	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR	Ø 114,000	31-04349-000

114,000


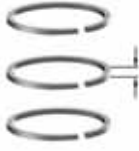
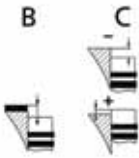






ISC 8.3L Euro 3	D	6 Cyl	8270cc		
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	11-02350-000 CH 78,990 B- 14,450 BØ 80,980 TL 115,500	DAP	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR	Ø 114,000	31-04350-000

114,000






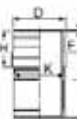
6CTA 8.3 Euro 2	D	6 Cyl	8270cc	127-274kW	(172-372ps)
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	11-02351-000 CH 78,930 B- 24,000 BØ 56,700 TL 120,430	DAP HA	91-09371-000 1 3,500 CR 2 3,000 P 3 4,000 CR	Ø 114,000	31-04351-000

	Type		 		
					






125,000

L10 611 CID (10.0 L) D 6 Cyl 10000cc kW (ps)

	11-02345-000 CH 78,840 B- 21,340 BØ 90,000 TL 124,340	AP	91-09372-000 1 3,160  CrP 2 3,160  CrP 3 4,747  CrP		Ø 125,000	31-04345-000
	54,00x98,70					
	K=138,00 L=241,20 H+F=100,00+1,25 D=146,00	WF			51-05190-000	71-07389-000







125,000


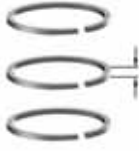
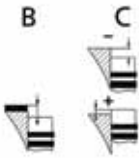

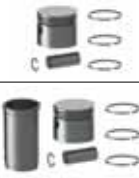
L10 611 CID (10.0 L) 88L10 D 6 Cyl 10000cc

	11-02346-000 CH 79,550 B- 10,670 BØ 91,800 TL 125,050	AP	91-09372-000 1 3,160  CrP 2 3,160  CrP 3 4,747  CrP		Ø 125,000	31-04346-000
	54,00x98,70					

125,000

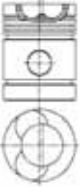






QSMII CM 876 D 2007 6 Cyl 10800cc




	11-02354-000 CH 75,350 VD1 1,400 VD2 1,400 B- 20,000 BØ 78,300 TL 113,050		91-09367-000 1 3,150  CR 2 3,150  CrP 3 4,000  NT St		Ø 125,000	31-04354-000
	54,00x102,00	STEEL PISTON				
	K=138,00 L=241,20 H+F=100,00+1,25 D=146,00	WF			51-05190-000	71-07193-000

	Type				
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100,610






DD 575	D	1969	1982	6 Cyl	5760cc	77-88kW	(105-120ps)
DS575 / DSD575	D	1980		6 Cyl	5760cc	121kW	(165ps)

	11-01385-000 CH 81,900 VD1 2,400 B- 24,800 BØ 58,600 TL 132,700	AP	91-09385-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,335  P 5 6,335  P		Ø 100,610	31-03385-000
 33,03x87,90		Daf ve Leyland ile Ortak Motor				


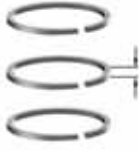
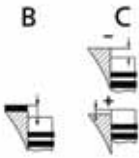

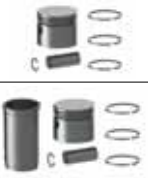






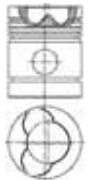







	K=105,67 L=239,00 H=12,72 D=115,21	DF			51-35383-000	71-07385-000
	K=105,70 L=239,00 H=12,70 D=115,20	DS			51-65379-000	
	K=106,20 L=239,00 H=12,70 D=115,20	DS +0,50			51-65379-050	

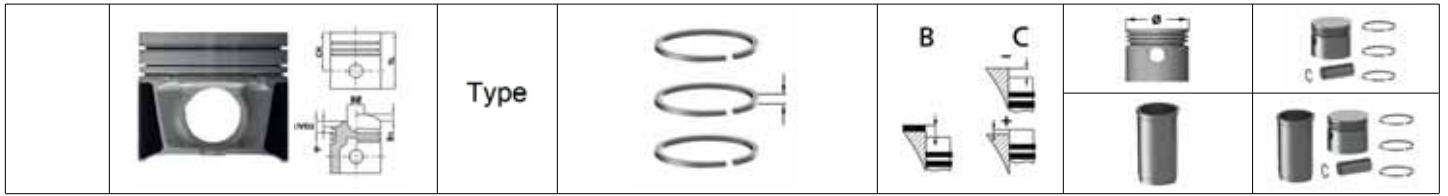
102,000

CS 119 L Euro 1	D		6 Cyl	5880cc	119kW	(162ps)
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	11-01372-000 CH 71,560 B- 17,900 BØ 63,500 TL 105,360	AP	91-09370-000 1 3,000  CR 2 2,350  P 3 4,000  CrP	+0,33/+0,66	Ø 102,000 Ø 102,500 Ø 103,000	31-03372-000 31-03372-020 31-03372-040
 40,00x75,80		Cummins ve Daf ile Ortak Motor				

	K=106,07 L=204,00 H+F=4,05+0,80 D=109,00	DF			51-35328-000	71-07377-000
	K=104,62 L=200,00	DF			51-35333-000	71-07373-000

		Type				
	K=106,07 L=204,00 H+F=4,05+0,80 D=109,00	DS			51-65370-000	
	K=106,50 L=204,00 H+F=5,05+0,80 D=109,50	DS +0,50			51-65370-050	
	K=107,07 L=204,00 H+F=5,05+0,80 D=110,00	DS +1,00			51-65370-100	
	K=107,50 L=204,00 H+F=5,05+0,80 D=110,50	DS +1,50			51-65370-150	
	K=104,62 L=200,00	DS			51-65373-000	
	K=105,06 L=200,00	DS +0,50			51-65373-050	
104,175						
DF 615			D	1966	1995	6 Cyl 6137cc 85-93kW (116-127ps)
DT 615			D	1967	1995	6 Cyl 6137cc 101-124kW (137-169ps)
DTD 615			D	1970	1991	6 Cyl 6137cc 123kW (168ps)
	11-01380-000 CH 81,970 VD1 2,300 B- 23,150 BØ 60,000 TL 132,800  38,00x88,00	AP	91-09380-000 1 2,500  CrP 2 2,500  P 3 2,500  P 4 6,000  P 5 6,000  P			Ø 104,175 31-03380-000
	K=109,00 L=239,00 H=8,00 D=117,10	DF				51-35380-000 71-07380-000



118,000									
825 DHB			D	1970	1979	6 Cyl	8250cc	148kW	(201ps)
825 DU			D	1971	1980	6 Cyl	8250cc	159kW	(216ps)
DH 825			D			6 Cyl	8250cc	115kW	(156ps)

	<p>11-01383-000 CH 95,000 B- 26,300 BØ 61,000 TL 152,000</p> <p>42,00x99,00</p>	AP	<p>91-09381-000 1 3,500 CrP 2 3,000 CrP 3 3,000 P 4 6,000 CrP</p>	0/+0,25	Ø 118,000	31-03383-000
		CP				
<p>K=123,49 L=262,00 H=10,05 D=133,60</p>		DF			51-35381-000	71-07383-000
<p>K=123,55 L=262,00 H=10,05 D=133,60</p>		DS			51-65250-000	

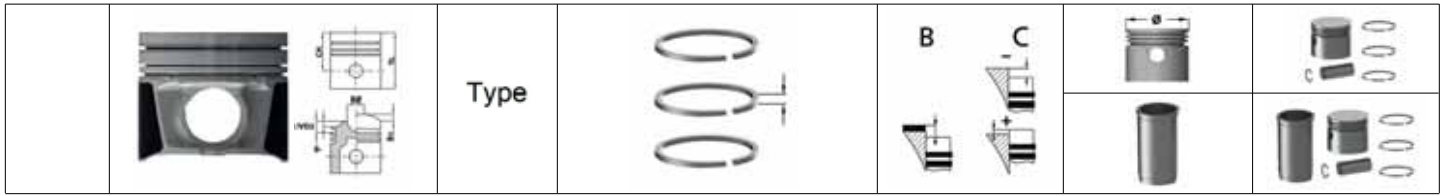
118,010									
PE 228 C Euro 3			D	2000		6 Cyl	9200cc	228kW	(310ps)
PE 265 C Euro 3			D	2000		6 Cyl	9200cc	265kW	(360ps)

	<p>11-01281-000 CH 88,000 B- 14,070 BØ 87,000 TL 132,000</p> <p>48,00x96,90</p>	AP	<p>91-09373-000 1 3,500 CK 2 3,000 CR 3 4,000 CR</p>		Ø 118,010	31-03281-000

	Type				

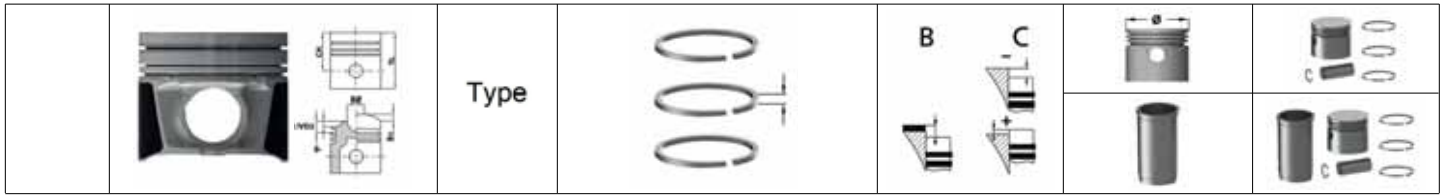
130,000						
XE 280 C1 EURO3	D	1998	6 Cyl	12583cc	280kW	(381ps)
XE 315 C1 EURO3	D	1998	6 Cyl	12583cc	315-355kW	(428-483ps)

 	11-01034-000 CH 95,000 VD1 1,000 B- 15,440 BØ 99,600 TL 143,000 52,00x106,00	AP	91-09378-000 1 4,000 MoP 2 3,160 CrP 3 4,000 CrP		Ø 130,000	31-03034-000
	K=136,00 L=288,50 H=10,05 D=143,60	DF			51-35382-000	71-07272-000
	K=136,25 L=288,50 H=10,05 D=143,60	DF +0,25			51-35382-025	
	K=136,50 L=288,50 H=10,05 D=143,60	DF +0,50			51-35382-050	
	K=136,05 L=288,50 H=10,05 D=143,60	DS			51-65253-000	
	K=136,25 L=288,50 H=10,50 D=143,60	DS +0,25			51-65253-025	
	K=136,50 L=288,50 H=10,50 D=143,60	DS +0,50			51-65253-050	



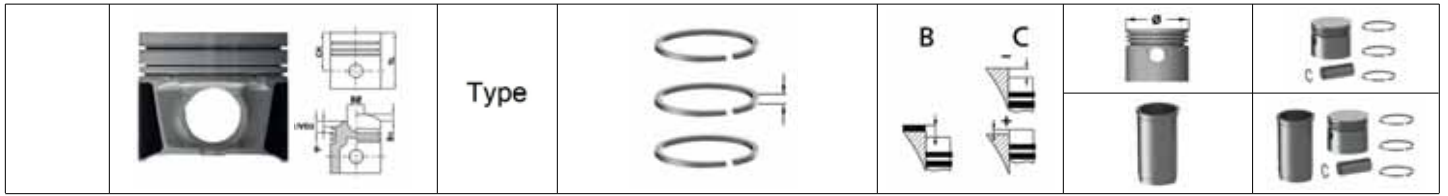
130,000	
DKS E 1160	D 1980 6 Cyl 11630cc 206kW (276ps)
DKV / DKX E / DKZ 1160	D 1983 6 Cyl 11630cc 139-260kW (189-354ps)
DKX 1160 ATI	D 1985 1991 6 Cyl 11630cc 260kW (354ps)
DKX E 1160 ATI	D 1985 1991 6 Cyl 11630cc 206-212kW (280-288ps)

<p>11-01263-000 CH 101,000 VD1 4,000 B- 29,100 BØ 74,600 TL 169,500</p> <p> 52,00x106,00</p>	<p>AP</p> <p>HA</p>	<p>91-09382-000</p> <p>1 3,160 CrP</p> <p>2 3,160 CrP</p> <p>3 3,160 CrP</p> <p>4 6,335 CrP</p>	-0,25/+0,25	Ø 130,000	31-03263-000
<p>K=136,00 L=288,50 H=10,05 D=143,60</p>	DF			51-35382-000	71-07263-000
<p>K=136,25 L=288,50 H=10,05 D=143,60</p>	DF +0,25			51-35382-025	
<p>K=136,50 L=288,50 H=10,05 D=143,60</p>	DF +0,50			51-35382-050	
<p>K=136,05 L=288,50 H=10,05 D=143,60</p>	DS			51-65253-000	
<p>K=136,25 L=288,50 H=10,50 D=143,60</p>	DS +0,25			51-65253-025	
<p>K=136,50 L=288,50 H=10,50 D=143,60</p>	DS +0,50			51-65253-050	



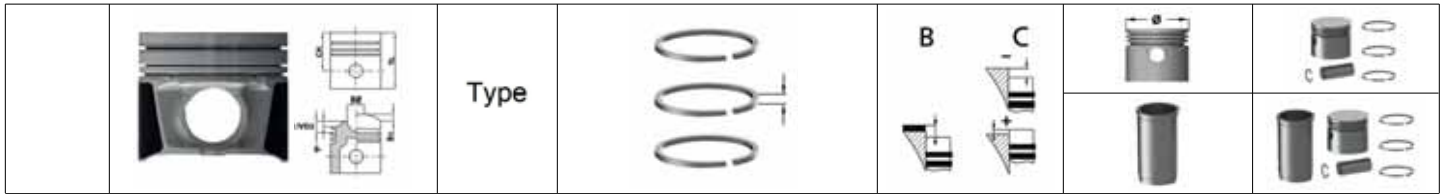
130,000	
XF 250 M Euro 2	D 1998 6 Cyl 12583cc 250kW (340ps)
XF 280 M Euro 2	D 1997 6 Cyl 12583cc 280kW (381ps)
XF 315 M Euro 2	D 1996 6 Cyl 12583cc 315kW (428ps)
XF 355 M Euro 2	D 1997 6 Cyl 12583cc 355kW (483ps)

<p>11-01273-000 CH 95,000 VD1 1,000 B- 21,750 BØ 82,000 TL 143,000</p> <p>52,00x105,65</p>	AP	<p>91-09378-000</p> <p>1 4,000 MoP 2 3,160 CrP 3 4,000 CrP</p>	0/+0,25	Ø 130,000	31-03273-000
<p>K=136,00 L=288,50 H=10,05 D=143,60</p>	DF			51-35382-000	71-07273-000
<p>K=136,25 L=288,50 H=10,05 D=143,60</p>	DF +0,25			51-35382-025	
<p>K=136,50 L=288,50 H=10,05 D=143,60</p>	DF +0,50			51-35382-050	
<p>K=136,05 L=288,50 H=10,05 D=143,60</p>	DS			51-65253-000	71-07274-000
<p>K=136,25 L=288,50 H=10,50 D=143,60</p>	DS +0,25			51-65253-025	
<p>K=136,50 L=288,50 H=10,50 D=143,60</p>	DS +0,50			51-65253-050	



130,000	
WS 222 / 242 / 268 L ATi Euro 1	D 1992 1997 6 Cyl 11630cc 222-268kW (302-364ps)
WS 222 G / WS 222-242-268-295-315 L ATi Euro 1	D 1990 6 Cyl 11630cc 222-315kW (302-428ps)
WS 222 L ATi Euro 1	D 1992 6 Cyl 11630cc 222kW (302ps)
WS 295 / 315 L ATi Euro 1	D 1992 6 Cyl 11630cc 295-315kW (401-428ps)

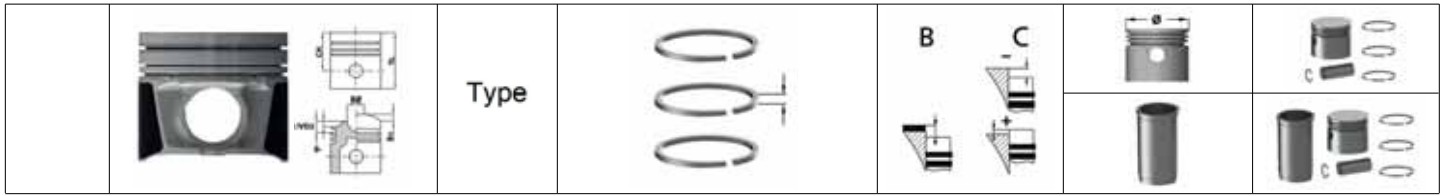
<p>11-01277-000 CH 101,000 VD1 0,800 B- 24,750 BØ 75,000 TL 155,000</p> <p> 52,00x106,00</p>	AP	<p>91-09378-000</p> <p>1 4,000 MoP 2 3,160 CrP 3 4,000 CrP</p>	0/+0,25	Ø 130,000	31-03277-000
<p>K=136,00 L=288,50 H=10,05 D=143,60</p>	DF			51-35382-000	71-07275-000
<p>K=136,25 L=288,50 H=10,05 D=143,60</p>	DF +0,25			51-35382-025	
<p>K=136,50 L=288,50 H=10,05 D=143,60</p>	DF +0,50			51-35382-050	
<p>K=136,05 L=288,50 H=10,05 D=143,60</p>	DS			51-65253-000	
<p>K=136,25 L=288,50 H=10,50 D=143,60</p>	DS +0,25			51-65253-025	
<p>K=136,50 L=288,50 H=10,50 D=143,60</p>	DS +0,50			51-65253-050	



130,000

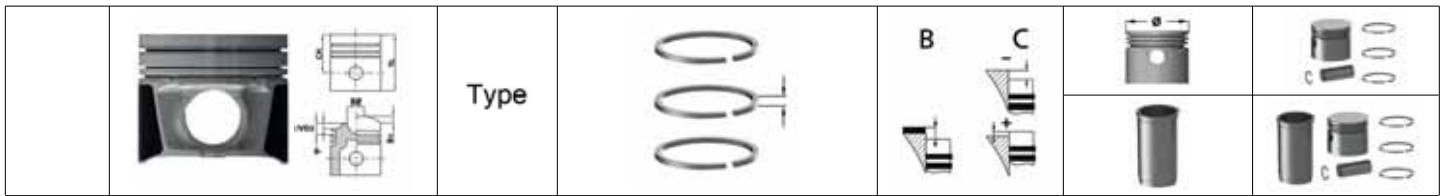
WS 225 ATi	D	1987	1997	6 Cyl	11630cc	225kW	(306ps)
WS 259 ATi	D	1987	1997	6 Cyl	11630cc	259kW	(352ps)
WS 282 L	D	1987	1997	6 Cyl	11630cc	282kW	(383ps)

 11-01278-000 CH 101,000 VD1 0,800 B- 29,420 BØ 75,000 TL 155,000 52,00x106,00	AP	91-09378-000 1 4,000 MoP 2 3,160 CrP 3 4,000 CrP		Ø 130,000	31-03278-000
K=136,00 L=288,50 H=10,05 D=143,60	DF			51-35382-000	71-07276-000
K=136,25 L=288,50 H=10,05 D=143,60	DF +0,25			51-35382-025	
K=136,50 L=288,50 H=10,05 D=143,60	DF +0,50			51-35382-050	
K=136,05 L=288,50 H=10,05 D=143,60	DS			51-65253-000	
K=136,25 L=288,50 H=10,50 D=143,60	DS +0,25			51-65253-025	
K=136,50 L=288,50 H=10,50 D=143,60	DS +0,50			51-65253-050	



130,000	
WS 242 G	D 1990 1997 6 Cyl 11630cc 242kW (329ps)
WS 268 G	D 1990 1997 6 Cyl 11630cc 268kW (364ps)
WS 295 G	D 1990 1997 6 Cyl 11630cc 295kW (401ps)

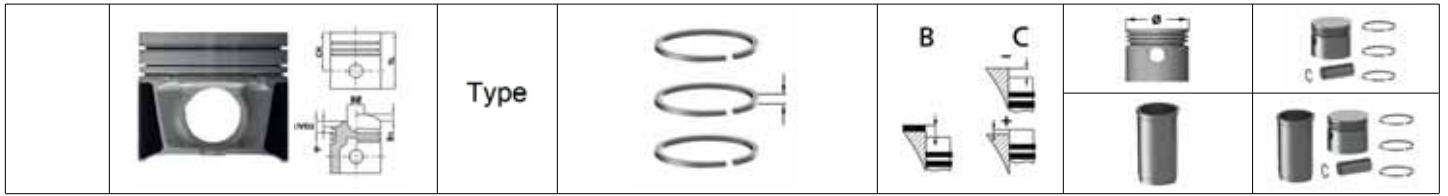
<p>11-01378-000 CH 101,000 VD1 0,800 VD2 1,500 B- 26,320 BØ 79,000 TL 155,000</p> <p> 52,00x106,00</p>	AP	<p>91-09378-000</p> <p>1 4,000 MoP 2 3,160 CrP 3 4,000 CrP</p>	0/+0,25	Ø 130,000	31-03378-000
<p>K=136,00 L=288,50 H=10,05 D=143,60</p>	DF			51-35382-000	71-07378-000
<p>K=136,25 L=288,50 H=10,05 D=143,60</p>	DF +0,25			51-35382-025	
<p>K=136,50 L=288,50 H=10,05 D=143,60</p>	DF +0,50			51-35382-050	
<p>K=136,05 L=288,50 H=10,05 D=143,60</p>	DS			51-65253-000	
<p>K=136,25 L=288,50 H=10,50 D=143,60</p>	DS +0,25			51-65253-025	
<p>K=136,50 L=288,50 H=10,50 D=143,60</p>	DS +0,50			51-65253-050	



130,000

DKC / DKCL 1160	D	1973		6 Cyl	11630cc	156kW	(212ps)
DKFL 1160	D	1973		6 Cyl	11630cc	191kW	(260ps)
DKS 1160 / 1160 E	D	1973	1991	6 Cyl	11630cc	139-228kW	(189-315ps)
DKSB 1160	D	1973	1989	6 Cyl	11630cc	228kW	(310ps)
DKT 1160	D	1974		6 Cyl	11630cc	185-213kW	(252-290ps)
DKTD 1160	D	1974	1991	6 Cyl	11630cc	185-199kW	(252-270ps)
DKTL 1160	D	1974	1993	6 Cyl	11630cc	165-199kW	(224-270ps)
DKVL 1160	D	1973	1993	6 Cyl	11630cc	139-260kW	(189-354ps)
DKX 1160	D	1981	1991	6 Cyl	11630cc	243kW	(330ps)
DKZ 1160 ATI	D	1985	1991	6 Cyl	11630cc	274kW	(373ps)
LT 160 Euro 1	D	1992		6 Cyl	11630cc	160kW	(218ps)
LT 195 Euro 1	D	1992		6 Cyl	11630cc	195kW	(265ps)
LT 210 Euro 1	D	1992		6 Cyl	11630cc	210kW	(286ps)

<p>11-01382-000 CH 101,000 VD1 4,000 B- 29,100 BØ 74,500 TL 169,500</p> <p>48,00x111,00</p>	AP	<p>91-09382-000</p> <p>1 3,160 CrP</p> <p>2 3,160 CrP</p> <p>3 3,160 CrP</p> <p>4 6,335 CrP</p>	-0,25/+0,25	Ø 130,000	31-03382-000
<p>K=136,00 L=288,50 H=10,05 D=143,60</p>	DF			51-35382-000	71-07382-000
<p>K=136,25 L=288,50 H=10,05 D=143,60</p>	DF +0,25			51-35382-025	
<p>K=136,50 L=288,50 H=10,05 D=143,60</p>	DF +0,50			51-35382-050	
<p>K=136,05 L=288,50 H=10,05 D=143,60</p>	DS			51-65253-000	
<p>K=136,25 L=288,50 H=10,50 D=143,60</p>	DS +0,25			51-65253-025	
<p>K=136,50 L=288,50 H=10,50 D=143,60</p>	DS +0,50			51-65253-050	

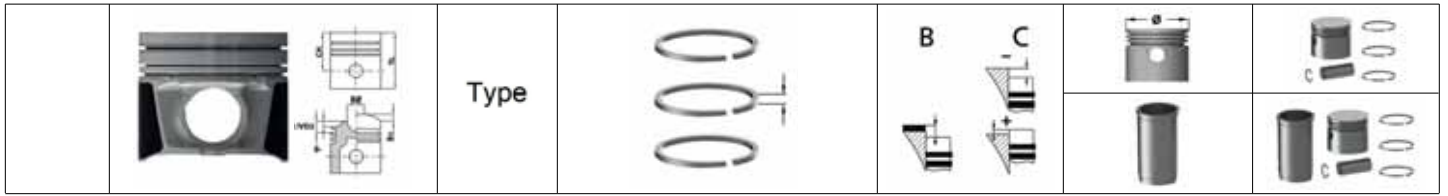


91,000							
F 2 L 1011		D	1989	2 Cyl	1366cc	18-22 kW	(25-30ps)
F 3 L 1011		D	1989	3 Cyl	2049cc	27-33 kW	(37-45ps)
F 4 L 1011		D	1988	4 Cyl	2732cc	36-44 kW	(49-60ps)






<p>11-01511-000 CH 55,370 B- 19,800 BØ 40,000 TL 86,370</p> <p>26,00x65,00</p>			<p>91-09511-000</p> <p>1 2,000 CrP 2 2,000 P 3 3,000 CrP</p>	<p>1. Conta ile +0,59/+0,69 2. Conta ile +0,69/+0,76 3. Conta ile +0,76/+0,83</p>	<p>Ø 91,000 Ø 91,500 Ø 92,000</p>	<p>31-03511-000 31-03511-050 31-03511-100</p>

91,000							
BF 3 L 1011 F		D		3 Cyl	2185cc	40kW	(54ps)
BF 4 L 1011		D	1989 1994	4 Cyl	2732cc	50-56 kW	(68-76ps)
BF 4 L 1011 F Euro 1		D	1994	4 Cyl	2732cc	48-56 kW	(65-76ps)
BF 4 L 1011 FT Euro 1		D	1994	4 Cyl	2732cc	46-53 kW	(63-72ps)
F2 L 1011		D	1989	2 Cyl	1366cc	21kW	(29ps)
F3 L 1011		D	1989	3 Cyl	2049cc	31kW	(42ps)
F4 L 1011		D	1988	4 Cyl	2732cc	42kW	(57ps)






<p>11-01694-000 CH 55,200 B- 18,000 BØ 45,000 TL 86,150</p> <p>30,00x68,00</p>		AP	<p>91-09046-000</p> <p>1 3,000 MoP 2 2,000 P 3 3,000 CrP</p>	<p>(+0,59/+0,69) (+0,69/+0,76) (+0,76/+0,83)</p>	<p>Ø 91,000 Ø 91,500</p>	<p>31-03694-000 31-03694-050</p>	
							<p>AA=27,60 mm</p>
<p>Deutz ve Volvo ile Ortak Motor</p>							
<p>K=94,00 L=175,50 H=4,55 D=98,85</p>		DF				51-35511-000	71-07515-000

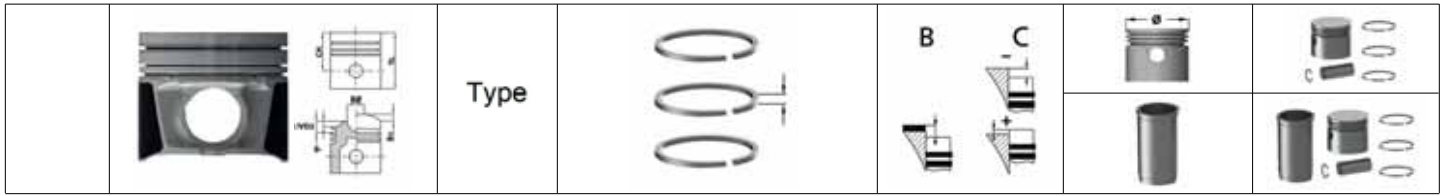


91,000							
F 2 M 1011 F Euro 1			D	1997	2 Cyl	1366cc	21-23kW (29-31ps)
F 3 M 1011 F Euro 1			D	1994	3 Cyl	2185cc	32-36kW (44-49ps)
F 4 M 1011 F Euro 1			D	1994	4 Cyl	2914cc	44-48kW (60-65ps)

 <p>11-02635-000 CH 51,700 B- 19,000 BØ 42,000 TL 81,650</p>  26,00x65,00		<p>91-09511-000</p> <p>1 2,000  CrP</p> <p>2 2,000  P</p> <p>3 3,000  CrP</p>		<p>Ø 91,000</p> <p>Ø 91,500</p>	<p>31-04635-000</p> <p>31-04635-050</p>

91,000							
BF 3 L 1011 FL			D		3 Cyl	3236cc	kW (ps)
BF 3 M 1011 F			D	1999	3 Cyl	2185cc	51kW (68ps)
BF 3 M 1011 F Euro 1			D	1994	3 Cyl	2185cc	46kW (62ps)
BF 4 M 1011 F Euro 1			D	1988	4 Cyl	2912cc	41-61kW (56-83ps)

 <p>11-02636-000 CH 51,600 B- 18,800 BØ 45,000 TL 81,600</p>  30,00x68,00	<p>AP</p> <p>YS</p>	<p>91-09046-000</p> <p>1 3,000  MoP</p> <p>2 2,000  P</p> <p>3 3,000  CrP</p>		<p>Ø 91,000</p> <p>Ø 91,500</p>	<p>31-04636-000</p> <p>31-04636-050</p>

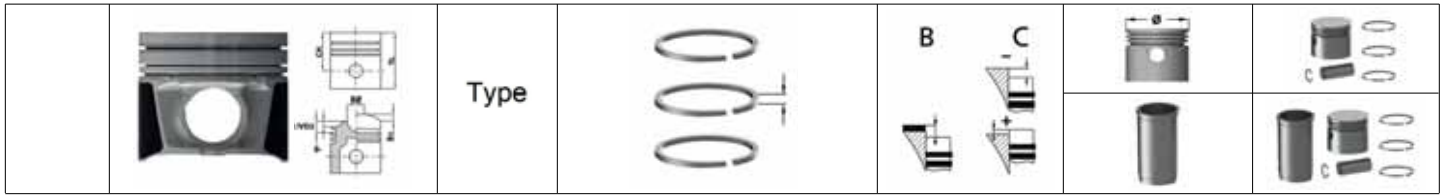


94,000								
BF 4 M 1012			D	2000	4 Cyl	3192cc	45-84kW	(61-114ps)
BF 4 M 1012 C Euro 1			D	1990	4 Cyl	3192cc	70-82 kW	(95-112ps)
BF 4 M 1012 E Euro 2			D	1990	4 Cyl	3192cc	48-73 kW	(65-99ps)
BF 4 M 1012 EC Euro 2			D	1990	4 Cyl	3192cc	60-73 kW	(82-99ps)
BF 4 M 1012 Euro 1			D	1992	4 Cyl	3192cc	47-65 kW	(64-88ps)
BF 6 M 1012 C Euro 1			D	1992	4 Cyl	3192cc	88-140 kW	(120-190ps)
BF 6 M 1012 E Euro 2			D	1990	4 Cyl	3192cc	72-100 kW	(98-136ps)
BF 6 M 1012 EC Euro 2			D	1990	4 Cyl	3192cc	85-125 kW	(115-170ps)
BF 6 M 1012 Euro 1			D	1992	4 Cyl	3192cc	83-98 kW	(113-133ps)

	11-01695-000 CH 61,200 B- 18,360 BØ 49,650 TL 98,000 34,00x78,00	AP	91-09043-000 1 3,000 CK 2 2,000 CR 3 3,000 CR	(+0,43/+0,64) (+0,64/+0,74) (+0,74/+0,84)	Ø 94,000	31-03695-000
	K=98,50 L=196,00 H=5,00 D=102,50					

94,000								
BF 3 L 2011 Euro2			D	2004	3 Cyl	2330cc	45kW	(61ps)
BF 3 M 2011 Euro 2			D	2001	3 Cyl	2330cc	49kW	(63ps)
BF 4 L 2011 Euro2			D	2004	4 Cyl	3110cc	58kW	(79ps)
BF 4 M 2011 Euro 2			D	2001	4 Cyl	3110cc	65kW	(84ps)
BF 4 M 2011 C Euro 2			D		4 Cyl	3110cc	59kW	(80ps)

	11-01696-000 CH 51,700 B- 17,600 BØ 52,000 TL 81,650 30,00x68,00	AP YS	91-09043-000 1 3,000 CK 2 2,000 CR 3 3,000 CR	1 Kertik conta ile (0,51/0,69) 2 Kertik conta ile (0,70/0,76) 3 Kertik conta ile (0,77/0,83)	Ø 94,000 Ø 94,500	31-03696-000 31-03696-050
	K=97,00 L=175,00 H=5,10 D=98,50					



94,000

F 2 L 2011	D	2001	2 Cyl	1550cc	23kW	(31ps)
F 2 M 2011	D	2001	2 Cyl	1550cc	26kW	(32ps)
F 3 L 2011	D	2001	3 Cyl	2330cc	36kW	(49ps)
F 3 M 2011	D	2001	3 Cyl	2330cc	37kW	(47ps)
F 4 M / L 2011	D	2001	4 Cyl	3109cc	49kW	(63ps)

<p>11-01697-000 CH 51,700 B- 19,000 BØ 46,000 TL 81,650</p> <p>26,00x65,00</p>	<p>91-09044-000 1 2,000 CR 2 2,000 3 3,000 </p>	<p>AA=27,50 mm</p>	<p>Ø 94,000 Ø 94,500</p>	<p>31-03697-000 31-03697-050</p>


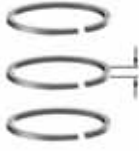
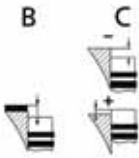



<p>K=97,00 L=175,00 H=5,10 D=98,50</p>	<p>DS</p>	<p>51-65772-000</p>
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95,000

F 1 L 812	D	1963	1967	1 Cyl	850cc	9kW	(13ps)
F 2 L 812	D	1963		2 Cyl	1700cc	16-22kW	(22-30ps)
F 3 L 812	D	1963		3 Cyl	2552cc	26-29kW	(35-40ps)
F 4 L 812	D	1963	1975	4 Cyl	3400cc	33-43kW	(45-58ps)
F 6 L 812	D	1963	1970	6 Cyl	5104cc	59-74kW	(80-100ps)








<p>11-01716-000 CH 68,000 B+ 11,700 TL 125,700</p> <p>35,00x80,00</p>	<p>91-09505-000 1 2,500 CrP 2 2,500 P 3 2,500 P 4 5,000 CR</p>	<p>Ø 95,000 Ø 95,500 Ø 96,000</p>	<p>31-03716-000 31-03716-050 31-03716-100</p>

<p>K=105,00 L=217,60 H=132,60 D=115,00</p>	<p>AF</p>	<p>51-95559-000 71-07716-000</p>
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	Type		B	C		
						






95,000


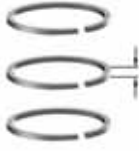
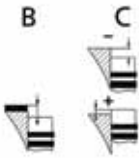

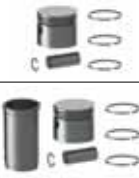
F 1 L 712	D	1 Cyl	850cc	9-11kW	(13-14ps)
F 2 L 712	D	2 Cyl	1700cc	13-18kW	(18-24ps)
F 3 L 712	D	3 Cyl	2550cc	28kW	(38ps)
F 4 L 712	D	4 Cyl	3400cc	38kW	(52ps)
F 6 L 712	D 1958 1968	6 Cyl	5100cc	66kW	(90ps)

	11-02804-000 CH 64,750 B+ 12,000 TL 125,750  35,00x80,00	91-09013-000 1 2,500  CrP 2 2,500  P 3 2,500  P 4 5,000  P 5 5,000  P	Ø 95,000	31-04804-000

	K=105,00 L=217,60 H=132,60 D=115,00	AF		51-95515-000	71-08804-000
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96,000


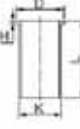
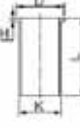
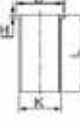
2011	D	4 Cyl	cc	kW	(ps)
	AP	91-09038-000 1 3,000  CrP 2 2,000  P 3 3,000  CrP	Ø 96,000 Ø 96,500	31-04632-000 31-04632-050	
					 35,00x80,00

	Type				
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98,000






BF 4 M 2012	D	4 Cyl
BF 6 M 2012	D	6 Cyl

	11-01717-000 CH 50,650 B- 17,500 BØ 61,060 TL 90,650	AP	91-09717-000 1 3,000  CK 2 2,030  P 3 3,000  CR	Ø 98,000	31-03717-000
 38,00x76,00					
Volvo ve Deutz Ortak Motor					

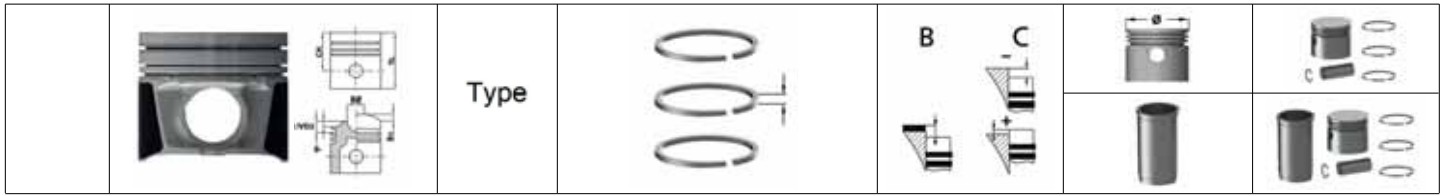
	K=101,00 L=188,00 H=4,50 D=105,00	DF		51-36038-000	71-07117-000
	K=101,50 L=188,00 H=5,00 D=105,00	DF +0,50		51-36038-050	
	K=101,00 L=193,00 H=4,50 D=105,00	DF		51-36039-000	71-07137-000
	K=101,50 L=193,00 H=5,00 D=105,00	DF +0,50		51-36039-050	

98,000

TCD 2012 Euro3	D 2005	6 Cyl	5700cc	147kW	(200ps)
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	11-01718-000 CH 55,150 B- 17,310 BØ 61,500 TL 90,650	AP	91-09717-000 1 3,000  CK 2 2,030  P 3 3,000  CR	Ø 98,000	31-03718-000
 40,00x80,00					
Volvo ve Deutz Ortak Motor					

	K=101,00 L=188,00 H=4,50 D=105,00	DF		51-36038-000	71-07138-000
	K=101,50 L=188,00 H=5,00 D=105,00	DF +0,50		51-36038-050	



100,000

F 2 L 912 D	D	1968	1986	2 Cyl	1884cc	18-25 kW	(24-34ps)
F 3 L 912 D	D	1965		3 Cyl	2826cc	26-44 kW	(35-60ps)
F 4 L 912 D	D	1967		4 Cyl	3770cc	19-59 kW	(20-80ps)
F 5 L 912 D	D	1967		5 Cyl	4712cc	40-78 kW	(54-106ps)
F 6 L 912 D	D	1968		6 Cyl	5655cc	42-92 kW	(57-125ps)

<p>11-01510-000 CH 71,900 B+ 5,600 B- 21,400 BØ 55,000 TL 123,600</p> <p>35,00x80,00</p>			<p>91-09510-000</p> <p>1 3,000 CrP 2 2,500 P 3 5,000 CrP</p>	<p>+1,00/+1,20</p>	<p>Ø 100,000 Ø 100,500 Ø 101,000</p>	<p>31-03510-000 31-03510-050 31-03510-100</p>

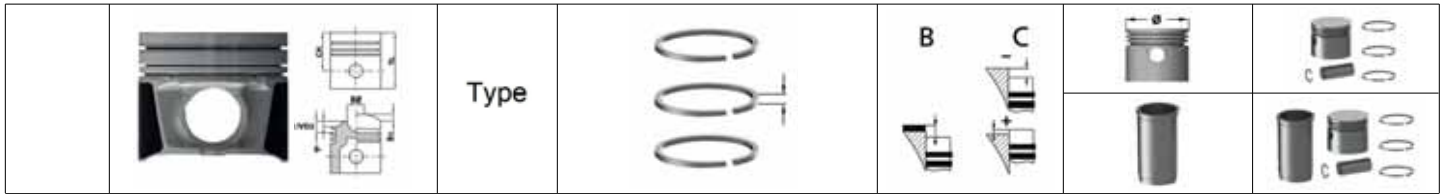
<p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF				51-95512-000	71-07510-000
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF			<p>O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50</p>	51-96212-000 52-96212-000	71-07718-000 72-07718-000

100,000

F 2 L 912 D	D	1967	1975	2 Cyl	1884cc	18-25kW	(24-34ps)
F 3 L 912 D	D	1987		3 Cyl	2826cc	26-44kW	(35-60ps)
F 4 L 912 D	D	1987		4 Cyl	3770cc	19-59kW	(20-80ps)
F 5 L 912 D	D	1967		5 Cyl	4712cc	40-78kW	(54-106ps)
F 6 L 912 D	D	1999		6 Cyl	5655cc	42-92kW	(57-125ps)

<p>11-01512-000 CH 71,900 B+ 5,600 B- 21,400 BØ 55,000 TL 123,600</p> <p>35,00x80,00</p>			<p>91-09512-000</p> <p>1 3,000 CrP 2 2,500 P 3 2,500 P 4 5,000 CrP</p>	<p>+1,00/+1,20</p>	<p>Ø 100,000 Ø 100,500 Ø 101,000</p>	<p>31-03512-000 31-03512-050 31-03512-100</p>

<p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF				51-95512-000	71-07512-000
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF			<p>O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50</p>	51-96212-000 52-96212-000	71-07719-000 72-07719-000



100,000

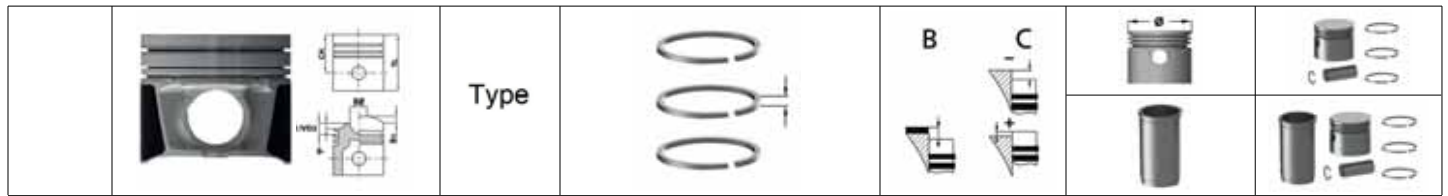
F 2 L 912 D	D	2 Cyl	1885cc	21-28kW	(29-38ps)
F 3 L 912 D	D	3 Cyl	2826cc	26kW	(35ps)
F 4 L 912 D	D	4 Cyl	3770cc	38kW	(52ps)
F 5 L 912 D	D	5 Cyl	4712cc	58kW	(79ps)
F 6 L 912 D	D	6 Cyl	5655cc	42kW	(57ps)

<p>11-01514-000 CH 71,900 B+ 5,600 B- 21,400 BØ 55,000 TL 123,600</p> <p>35,00x80,00</p>			<p>91-09512-000</p> <p>1 3,000 CrP 2 2,500 P 3 2,500 P 4 5,000 CrP</p>		<p>Ø 100,000 Ø 100,500 Ø 101,000</p>	<p>31-03514-000 31-03514-050 31-03514-100</p>
<p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF				51-95512-000	71-07514-000
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF			<p>O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50</p>	<p>51-96212-000 52-96212-000</p>	<p>71-07530-000 72-07530-000</p>






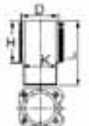
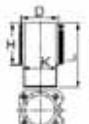
100,000

F 4 L 912	D	4 Cyl	3700cc	59kW	(80ps)
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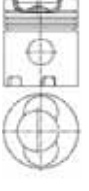





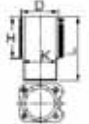
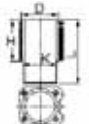
<p>11-01522-000 CH 71,900 B+ 3,300 B- 17,350 BØ 45,000 TL 123,720</p> <p>35,00x80,00</p>			<p>91-09512-000</p> <p>1 3,000 CrP 2 2,500 P 3 2,500 P 4 5,000 CrP</p>		<p>Ø 100,000 Ø 100,500</p>	<p>31-03522-000 31-03522-050</p>
<p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF				51-95512-000	71-07522-000
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF			<p>O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50</p>	<p>51-96212-000 52-96212-000</p>	<p>71-07531-000 72-07531-000</p>

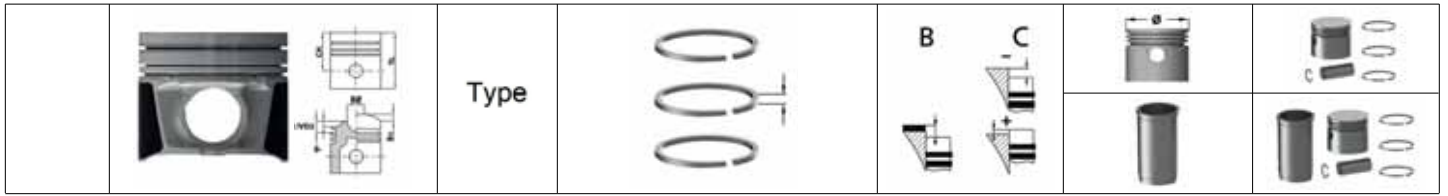


100,000

F 4 L 912		D	4 Cyl	3700cc	59kW	(80ps)
 <p>11-01523-000 CH 71,900 B+ 3,300 B- 17,350 BØ 45,000 TL 123,720</p>  35,00x80,00			<p>91-09523-000</p> <p>1 2,940  CrP</p> <p>2 2,000  P</p> <p>3 3,000  CrP</p>		<p>Ø 100,000</p> <p>Ø 100,500</p>	<p>31-03523-000</p> <p>31-03523-050</p>
 <p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF				51-95512-000	71-07523-000
 <p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF		O-Ring/Seal 55-50919-000 <small>1 SM 110,10x117,60x0,50</small>	51-96212-000 52-96212-000	71-07529-000 72-07529-000	

100,000

F 2 L 912		D	2 Cyl	1884cc	26-28kW	(36-38ps)
F 3 L 912		D	3 Cyl	2826cc	26-43kW	(35-56-5ps)
F 4 L 912		D	4 Cyl	3768cc	43-59kW	(58-80ps)
F 5 L 912		D	5 Cyl	4712cc	63-74kW	(85-100ps)
F 6 L 912		D	6 Cyl	5652cc	59-82kW	(80-112ps)
 <p>11-01525-000 CH 71,800 B+ 5,700 B- 21,400 BØ 55,000 TL 123,600</p>  35,00x80,00			<p>91-09512-000</p> <p>1 3,000  CrP</p> <p>2 2,500  P</p> <p>3 2,500  P</p> <p>4 5,000  CrP</p>		<p>Ø 100,000</p> <p>Ø 100,500</p> <p>Ø 101,000</p>	<p>31-03525-000</p> <p>31-03525-050</p> <p>31-03525-100</p>
 <p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF				51-95512-000	71-07525-000
 <p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF		O-Ring/Seal 55-50919-000 <small>1 SM 110,10x117,60x0,50</small>	51-96212-000 52-96212-000	71-07724-000 72-07724-000	



100,000

F 2 L 912 D	D	1967	1975	2 Cyl	1884cc	18-25 kW	(24-34ps)
F 3 L 912 D	D	1987		3 Cyl	2826cc	26-44 kW	(35-60ps)
F 4 L 912 D	D	1987		4 Cyl	3770cc	19-59 kW	(20-80ps)
F 5 L 912 D	D	1967		5 Cyl	4712cc	40-78 kW	(54-106ps)
F 6 L 912 D	D	1999		6 Cyl	5655cc	42-92 kW	(57-125ps)

<p>11-01715-000 CH 71,800 VD1 1,100 B+ 5,700 B- 21,400 BØ 55,000 TL 123,600</p> <p> 35,00x80,00</p>	<p>91-09506-000 1 3,000 CrP 2 2,000 3 3,500 CR</p>	<p>Ø 100,000 Ø 100,500</p>	<p>31-03715-000 31-03715-050</p>


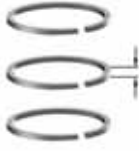
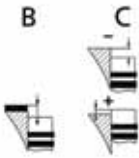

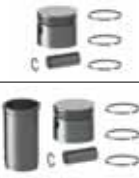
<p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF			<p>51-95512-000</p>	<p>71-07715-000</p>
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF		<p>O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50</p>	<p>51-96212-000 52-96212-000</p>	<p>71-07717-000 72-07717-000</p>

101,000

TCD 2012 L4 2V Euro 3	D	2004		4 Cyl	4038cc	83-103kW	(113-140ps)
TCD 2012 L6 2V Euro 3	D	2004		6 Cyl	6057cc	105-165kW	(142-224ps)







<p>11-01524-000 CH 55,150 B- 18,120 BØ 62,000 TL 90,650</p> <p> 40,00x80,00</p>	AP	<p>91-09059-000 1 2,500 CK 2 2,000 P 3 3,000 CR</p>	<p>Ø 101,000</p>	<p>31-03524-000</p>

<p>K=104,00 L=190,00 H=5,00 D=106,00</p>	DS			<p>51-65769-000</p>	
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	Type				
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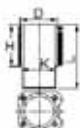
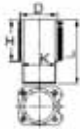
101,000

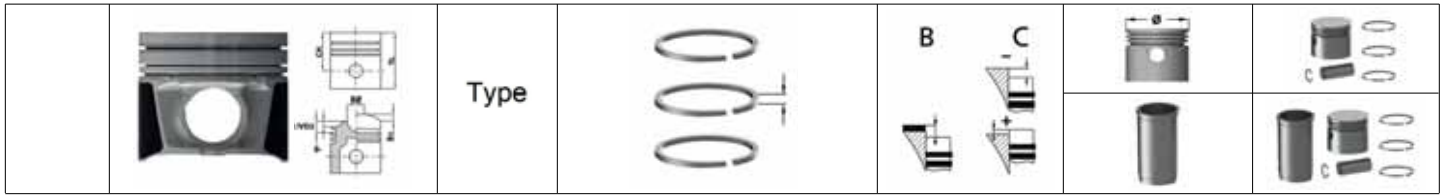
BF 4 M 2012 C Euro 2	D	4 Cyl	4038cc	56-155kW	(76-208ps)
BF 4 M 2012 Euro 2	D 2001	4 Cyl	4038cc	74-93kW	(101-126ps)
BF 6 M 2012	D	6 Cyl	6060cc	80-208kW	(109-283ps)
BF 6 M 2012 C Euro 2	D 2003	6 Cyl	6060cc	80-155kW	(109-209ps)

	11-02046-000 CH 50,650 B- 18,000 BØ 61,030 TL 86,150	AP	91-09059-000 1 2,500  CK 2 2,000  P 3 3,000  CR	(+0,33/+0,55) (+0,56/+0,65) (+0,66/+0,75)	Ø 101,000 Ø 101,500	31-04046-000 31-04046-050
	38,00x76,00					
	K=104,00 L=190,00 H=5,00 D=106,00	DS			51-65769-000	

102,000

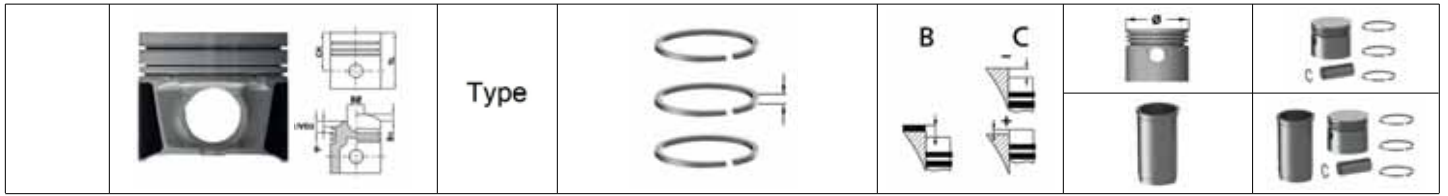
F 4 L 913 D	D	4 Cyl	4086cc	34-59kW	(46-80ps)
F 6 L 913 D	D	6 Cyl	6128cc	51-89kW	(69-121ps)

	11-01513-000 CH 69,100 B+ 6,000 B- 16,600 BØ 56,200 TL 123,600	AP	91-09513-000 1 3,000  MoP 2 2,500  P 3 2,500  P 4 5,000  CrP		Ø 102,000 Ø 102,500 Ø 103,000	31-03513-000 31-03513-050 31-03513-100
	35,00x80,00					
	K=110,00 L=222,30 H=137,30 D=120,00	AF			51-95513-000	71-07513-000
	K=110,00 L=222,30 H=136,80 D=120,00	AF		O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50	51-96212-000 52-96212-000	71-07499-000 72-07499-000









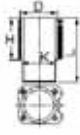
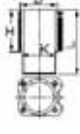
102,000							
BF 4 L 913	D	1980	4 Cyl	4086cc	55-81 kW	(75-111ps)	
BF 4 L 913 T	D	1982	4 Cyl	4086cc	55-78 kW	(75-106ps)	
BF 6 L 913	D		6 Cyl	6128cc	70-140 kW	(95-191ps)	
BF 6 L 913 C	D	1986	6 Cyl	6128cc	118-164 kW	(160-223ps)	
BF 6 L 913 T	D	1981	6 Cyl	6128cc	85-112 kW	(115-152ps)	

<p>11-01516-000 CH 69,100 B+ 6,000 B- 17,600 BØ 58,000 TL 123,600</p> <p>40,00x80,00</p>	AP	<p>91-09516-000</p> <p>1 3,000 MoP 2 3,000 CrP 3 2,500 P 4 5,000 CrP</p>	+1,00/+1,20	<p>Ø 102,000 Ø 102,500 Ø 103,000</p>	<p>31-03516-000 31-03516-050 31-03516-100</p>
	YS				
<p>K=110,00 L=222,30 H=137,30 D=120,00</p>	AF			51-95513-000	71-07516-000
<p>K=109,90 L=220,40 H=135,40 D=124,50</p>	AF			51-95517-000	71-07135-000
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	AF		O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50	51-96213-000 52-96213-000	71-07527-000 72-07527-000
<p>K=109,90 L=220,40 H=134,90 D=124,50</p>	AF			51-96217-000	71-07721-000








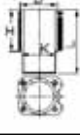
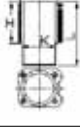
102,000

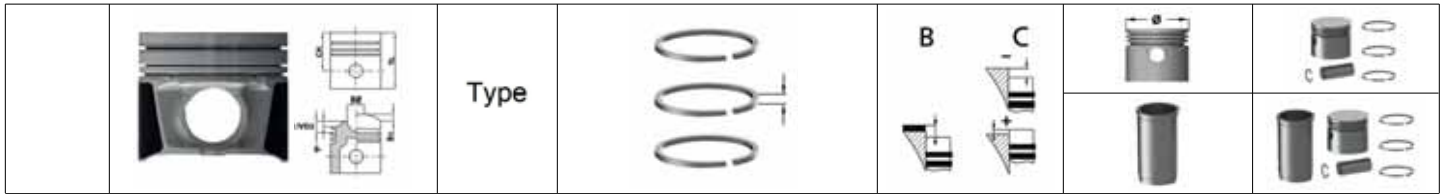
1516 nin yağ soğutması olmayan versiyonu / piston version 1516 without oil cooling galery

		Type		B	C		
	11-01521-000 CH 69,100 B+ 6,000 B- 17,600 BØ 58,000 TL 123,600	AP	91-09516-000 1 3,000  MoP 2 3,000  CrP 3 2,500  P 4 5,000  CrP			Ø 102,000 Ø 102,500 Ø 103,000	31-03521-000 31-03521-050 31-03521-100
	40,00x80,00						
	K=110,00 L=222,30 H=137,30 D=120,00	AF				51-95513-000	71-07521-000
	K=110,00 L=222,30 H=136,80 D=120,00	AF		O-Ring/Seal 55-50919-000 <small>1 SM 110,10x117,60x0,50</small>		51-96213-000 52-96213-000	71-07528-000 72-07528-000

102,000

F 3 L 913	D 1982
F 4 L 913	D 1973
F 5 L 913	D 1979
F 6 L 913	D 1973

	11-01705-000 CH 69,100 B+ 6,000 B- 16,600 BØ 56,000 TL 123,600	AP YS	91-39516-000 1 3,000  MoP 2 3,000  CrP 3 5,000  CrP			Ø 102,000 Ø 102,500	31-03705-000 31-03705-050
	35,00x80,00						
	K=110,00 L=222,30 H=137,30 D=120,00	AF				51-95513-000	71-07705-000
	K=110,00 L=222,30 H=136,80 D=120,00	AF		O-Ring/Seal 55-50919-000 <small>1 SM 110,10x117,60x0,50</small>		51-96213-000 52-96213-000	71-07706-000 72-07706-000

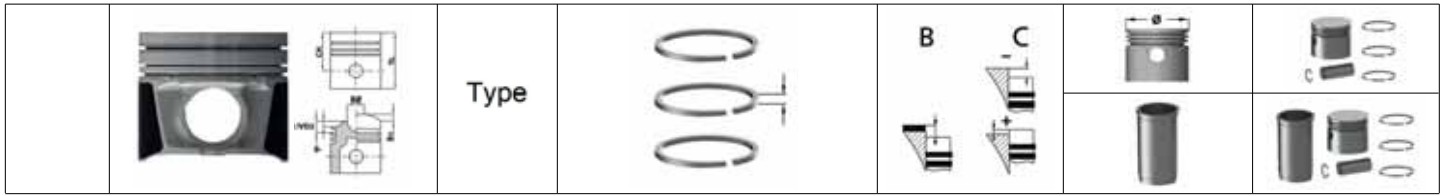


102,000							
BF 4 L 913 T			D	1982	4 Cyl	4086cc	55-78kW (75-106ps)
BF 6 L 913 T			D	1981	6 Cyl	6128cc	85-112kW (115-152ps)

<p>11-01707-000 CH 69,100 B+ 6,000 B- 17,600 BØ 58,000 TL 123,600</p> <p>35,00x80,00</p>	<p>AP YS</p>	<p>91-09521-000 1 3,000 CrP 2 2,500 CrP 3 2,500 P 4 5,000 CrP</p>	<p>+1,00/+1,20</p>	<p>Ø 102,000 Ø 102,500 Ø 103,000</p>	<p>31-03707-000 31-03707-050 31-03707-100</p>
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	<p>AF</p>		<p>O-Ring/Seal 55-50919-000 <small>1 SM 110,10x117,60x0,50</small></p>	<p>51-96213-000 52-96213-000</p>	<p>71-07710-000 72-07710-000</p>

102,000							
BF 4 L 913			D	1982	4 Cyl	4086cc	55-81kW (75-111ps)
BF 4 L 913 T			D	1982	4 Cyl	4086cc	55-78kW (75-106ps)
BF 6 L 913			D	1973	6 Cyl	6128cc	70-140kW (95-191ps)
BF 6 L 913 C			D	1986	6 Cyl	6128cc	118-164kW (160-223ps)
BF 6 L 913 T			D	1986	6 Cyl	6128cc	85-112kW (115-152ps)

<p>11-01708-000 CH 69,100 B+ 4,450 B- 17,600 BØ 58,400 TL 123,600</p> <p>40,00x80,00</p>	<p>AP YS</p>	<p>91-09709-000 1 3,000 CrP 2 3,000 MoP 3 3,500 CrP</p>		<p>Ø 102,000 Ø 102,500 Ø 103,000</p>	<p>31-03708-000 31-03708-050 31-03708-100</p>
<p>K=109,90 L=220,40 H=135,40 D=124,50</p>	<p>AF</p>			<p>51-95517-000</p>	<p>71-07709-000</p>
<p>K=110,00 L=222,30 H=136,80 D=120,00</p>	<p>AF</p>		<p>O-Ring/Seal 55-50919-000 <small>1 SM 110,10x117,60x0,50</small></p>	<p>51-96213-000 52-96213-000</p>	<p>71-07711-000</p>
<p>K=109,90 L=220,40 H=134,90 D=124,50</p>	<p>AF</p>			<p>51-96217-000</p>	<p>71-07704-000</p>



102,000							
F 3 L 913		D	1987	3 Cyl	3064cc	37-45kW	(50-61ps)
F 4 L 913		D	1987	4 Cyl	4086cc	51-66kW	(70-90ps)
F 5 L 913		D	1980	5 Cyl	5107cc	66kW	(90ps)
F 6 L 913		D	1980 1985	6 Cyl	6128cc	71-96kW	(96-130ps)

<p>11-02631-000 CH 69,210 B- 23,000 BØ 45,000 TL 117,200</p> <p>35,00x80,00</p>			<p>91-09034-000</p> <p>1 2,940 MoP</p> <p>2 2,000 CR</p> <p>3 3,000 CR</p>		Ø 102,000	<p>31-04631-000 31-04631-050</p>
					Ø 102,500	

102,000							
F 4 L 913 W		D	1998	4 Cyl	4086cc	55kW	(75ps)
F 5 L 913 W		D	1998	5 Cyl	5107cc	44kW	(60ps)


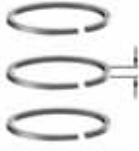
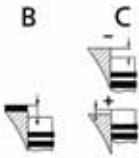

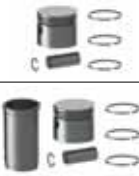
<p>11-02633-000 CH 69,210 B- 8,100 TL 117,200</p> <p>35,00x80,00</p>			<p>91-09036-000</p> <p>1 3,000 CK</p> <p>2 2,000 P</p> <p>3 3,000 CR</p>		Ø 102,000	<p>31-04633-000 31-04633-050</p>
					Ø 102,500	

108,000							
BF 4 M 1013 C Euro 1		D	1990	4 Cyl	4764cc	99-125 kW	(135-168ps)
BF 4 M 1013 CP Euro 1		D	1998	4 Cyl	4764cc	100kW	(136ps)
BF 4 M 1013 Euro 1		D	1994	4 Cyl	4764cc	63-93 kW	(85-127ps)
BF 6 M 1013 C Euro 1 / BF 6 M 1013 Euro2		D	1993	6 Cyl	7146cc	144-235 kW	(196-320ps)
BF 6 M 1013 CP Euro 1		D	1992	6 Cyl	7146cc	161-190 kW	(219-258ps)
BF 6 M 1013 Euro 1		D	1993	6 Cyl	7146cc	95-141 kW	(129-192ps)

<p>11-01698-000 CH 71,150 B- 16,600 BØ 71,000 TL 108,000</p> <p>42,00x86,00</p>	AP		<p>91-09045-000</p> <p>1 3,000 CK</p> <p>2 2,000 P</p> <p>3 3,500 CR</p>	<p>1 Centik conta ile (+0,28/+0,53) 2 Centik conta ile (+0,54/+0,63) 3 Centik conta ile (+0,64/+0,75)</p>	Ø 108,000	<p>31-03698-000</p>






Deutz ve Volvo ile Ortak Motor

<p>K=120,00 L=229,00 H+F=9,00+1,10 D=128,50</p>	WF			O-Ring/Seal	51-05387-000	<p>71-08067-000 72-08067-000</p>
				55-50613-000 2 FPM 112,00x3,00	52-05387-000	

	Type				
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108,000






TCD 2013 L06 4V Euro 3 D 6 Cyl 7146cc 147-243kW (200-330ps)

 11-02036-000 CH 70,900 B- 19,600 BØ 64,500 TL 107,800  45,00x86,00	AP YS	91-09045-000 1 3,000  CK 2 2,000  P 3 3,500  CR		Ø 108,000	31-04036-000
Deutz, Renault Trucks (RVI) ve Volvo ile Ortak Motor					

	K=120,00 L=228,00 H=8,07 D=131,70	WF	O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06065-000 52-06065-000	71-08031-000 72-08031-000
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108,000

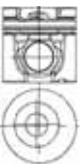




BF 4 M 1013 EC Euro 2	D	1993	4 Cyl	4764cc	100-118kW	(136-160ps)
BF 4 M 1013 FC Euro 2	D	2001	4 Cyl	4764cc	133kW	(181ps)
BF 6 M 1013 ECP Euro 2	D	1998	6 Cyl	7146cc	147-195kW	(200-265ps)
BF 6 M 1013 FC Euro 3	D	1998	6 Cyl	7146cc	147-200kW	(200-272ps)

 11-02037-000 CH 71,100 B- 19,920 BØ 63,000 TL 108,000  42,00x86,00	AP	91-09045-000 1 3,000  CK 2 2,000  P 3 3,500  CR		Ø 108,000	31-04037-000
Deutz ve Volvo ile Ortak Motor					


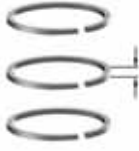
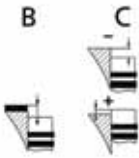


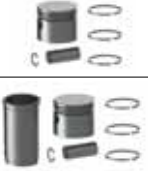
	K=120,00 L=229,00 H+F=9,00+1,10 D=128,50	WF	O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-05387-000 52-05387-000	71-08069-000 72-08069-000
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108,000

BF 4M 1013	D		4 Cyl	4764cc	kW	(ps)
BF 6M 1013	D		6 Cyl	7146cc	kW	(ps)

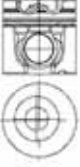




 11-02044-000 CH 71,100 B- 19,600 BØ 64,000 TL 108,000  42,00x86,00	AP	91-09045-000 1 3,000  CK 2 2,000  P 3 3,500  CR		Ø 108,000	31-04044-000
Deutz ve Volvo ile Ortak Motor					

	K=120,00 L=229,00 H+F=9,00+1,10 D=128,50	WF	O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06067-000 52-06067-000	71-07153-000 72-07153-000
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	Type		 		
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108,000

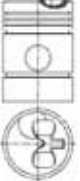






BF 4 M 1013 E Euro 2	D	1993	4 Cyl	4764cc
BF 6 M 1013 E Euro 2	D	1995	6 Cyl	7146cc
TCD 2013 L04 2V Euro 3	D		4 Cyl	4764cc
TCD 2013 L06 2V Euro 3	D		6 Cyl	7146cc

	11-02045-000 CH 71,100 B- 19,600 BØ 64,000 TL 108,000	AP	91-09045-000 1 3,000  CK 2 2,000  P 3 3,500  CR		Ø 108,000	31-04045-000
	42,00x86,00					
Deutz ve Volvo ile Ortak Motor						

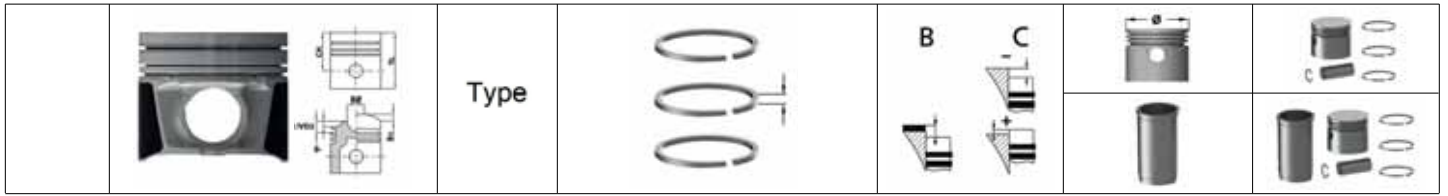
	K=120,00 L=229,00 H+F=9,00+1,10 D=128,50	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06067-000 52-06067-000	71-07152-000 72-07152-000
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110,000

F 1 L 514	D		1 Cyl	1330cc	11-13kW	(15-18ps)
F 12 L 614	D		12 Cyl	15966cc	184kW	(250ps)
F 2 AL / L 514	D		2 Cyl	2660cc	22-24kW	(30-33ps)
F 3 L 514	D		3 Cyl	3990cc	33-37kW	(45-50ps)
F 4 L 514	D		4 Cyl	5322cc	63kW	(85ps)
F 6 L 514 / 614	D		6 Cyl	7980cc	74-92kW	(101-125ps)
F 8 L 614	D		8 Cyl	10643cc	125kW	(170ps)

	11-01517-000 CH 87,000 VD1 0,500 B- 10,500 TL 154,000	CP	91-09517-000 1 3,000  CR 2 3,000  P 3 3,000  P 4 6,000  CR 5 6,000  P	+1,20/+1,40	Ø 110,000 Ø 110,500 Ø 111,000 Ø 111,500	31-03517-000 31-03517-050 31-03517-100 31-03517-150
	40,00x93,00					

	K=130,00 L=274,55 H+F=162,40+7,10 D=140,00	AF-PH			51-95518-000	71-07517-000
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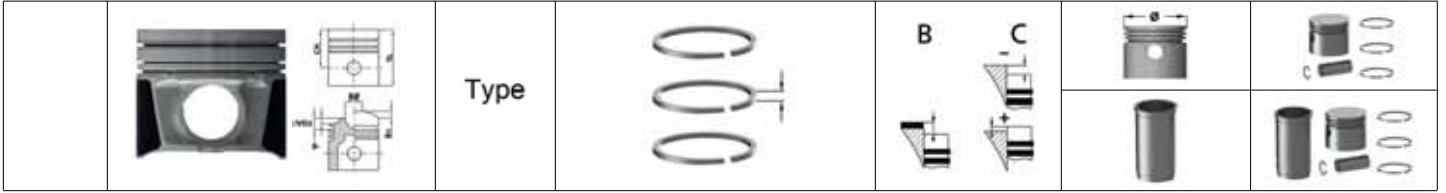


120,000							
F 10 L 413			D	1970	1982	10 Cyl	14140cc 167-224kW (227-305ps)
F 12 L 413			D	1971	1975	12 Cyl	16960cc 138-250kW (188-340ps)
F 6 L 413			D	1968	1986	6 Cyl	8487cc 69-130kW (94-176ps)
F 8 L 413			D	1967	1986	8 Cyl	11310cc 118-171kW (160-232ps)

<p>11-01518-000 CH 90,160 B+ 5,090 B- 45,550 BØ 46,000 TL 145,250</p> <p>45,00x96,00</p>	AP	<p>91-09518-000</p> <p>1 3,000 CR</p> <p>2 3,000 CR</p> <p>3 3,000 CR</p> <p>4 6,000 CrP</p>	+1,10/+1,30	<p>Ø 120,000</p> <p>Ø 120,500</p> <p>Ø 121,000</p>	<p>31-03518-000</p> <p>31-03518-050</p> <p>31-03518-100</p>

120,000							
F/A 10 L 714			D	1959		10 Cyl	15883cc 173kW (235ps)
F/A 12 L 714			D	1959		12 Cyl	19000cc 213kW (290ps)
F/A 6 L 714			D	1959		6 Cyl	9500cc 106kW (145ps)
F/A 8 L 714			D	1959		8 Cyl	12667cc 143kW (195ps)

<p>11-01519-000 CH 87,000 VD1 0,300 B- 13,000 TL 154,000</p> <p>45,00x102,00</p>	CP	<p>91-09519-000</p> <p>1 3,000 CR</p> <p>2 3,000 CR</p> <p>3 3,000 CR</p> <p>4 6,000 CrP</p> <p>5 6,000 P</p>	+1,30/+1,50	<p>Ø 120,000</p> <p>Ø 120,500</p> <p>Ø 121,000</p>	<p>31-03519-000</p> <p>31-03519-050</p> <p>31-03519-100</p>


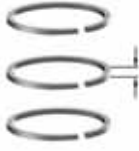




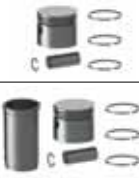


125,000							
F 10 L 413 F	D	1978	10 Cyl	15953cc	173-235kW	(235-320ps)	
F 12 L 413 F	D	1976	12 Cyl	19144cc	224-282kW	(305-383ps)	
F 4 L 413 F / FR	D	1978	1991	4 Cyl	6381cc	83-94kW	(113-128ps)
F 5 L 413 F / FR	D	1975		5 Cyl	7976cc	94-118kW	(128-160ps)
F 6 L 413 F / FR	D	1975	1993	6 Cyl	9572cc	104-188kW	(141-256ps)
F 8 L 413 F	D	1977	1987	8 Cyl	12763cc	147-188kW	(200-255ps)

<p>11-01520-000 CH 87,400 B+ 5,250 B- 47,650 BØ 48,000 TL 138,650</p> <p>45,00x102,00</p>	AP	<p>91-09520-000</p> <p>1 3,000 CrP</p> <p>2 2,500 P</p> <p>3 4,000 CrP</p>	+1,15/+1,30	<p>Ø 125,000</p> <p>Ø 125,500</p> <p>Ø 126,000</p>	<p>31-03520-000</p> <p>31-03520-050</p> <p>31-03520-100</p>








<p>K=139,00 L=250,70 H=169,50 D=150,00</p>	AF-PH			51-95529-000	71-07119-000
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<p>K=139,00 L=250,70 H=169,50 D=154,00</p>	AF-PH			51-95556-000	71-07134-000
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		Type		 		
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127,000

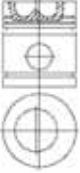





LC2	D	2 Cyl	cc	kW	(ps)
LC3	D	3 Cyl	cc	kW	(ps)
LC4	D	4 Cyl	cc	kW	(ps)
LC5	D	5 Cyl	cc	kW	(ps)
LC6	D	6 Cyl	cc	kW	(ps)

	<p>11-01400-000 CH 101,664 B- 28,260 BØ 73,600 TL 154,000</p>  44,45x107,95		<p>91-09400-000 1 3,175  CR 2 3,175  P 3 3,175  P 4 6,350  P 5 6,350  P</p>		Ø 127,000	31-03400-000
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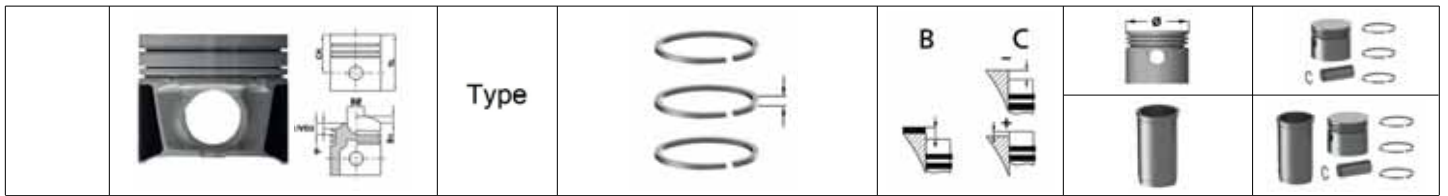
	<p>K=142,80 L=295,90 H+F=11,17+0,63 D=150,10</p>	WF			51-05257-000	71-07400-000
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127,000

LA2	D	2 Cyl			
LA3	D	3 Cyl			
LA4	D	4 Cyl			
LA5	D	5 Cyl			
LA6	D	6 Cyl			

	<p>11-01401-000 CH 111,176 B- 22,780 BØ 70,700 TL 163,576</p>  44,45x107,95		<p>91-49400-000 1 3,175  CR 2 3,175  P 3 6,350  P 4 6,350  P</p>		Ø 127,000	31-03401-000
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	<p>K=142,80 L=295,90 H+F=11,17+0,63 D=150,10</p>	WF			51-05257-000	71-07401-000
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100,000

EDK1	D	1 Cyl
EDK2	D	2 Cyl
EDK3	D	3 Cyl
EDK4	D	4 Cyl
EDK6	D	6 Cyl

<p>11-02805-000 CH 81,000 VD1 0,500 B- 28,800 BØ 25,500 TL 121,000</p> <p> 35,00x85,00</p>		<p>91-09007-000</p> <p>1 3,000 CR 2 3,000 P 3 5,000 CrP</p>		Ø 100,000	31-04805-000
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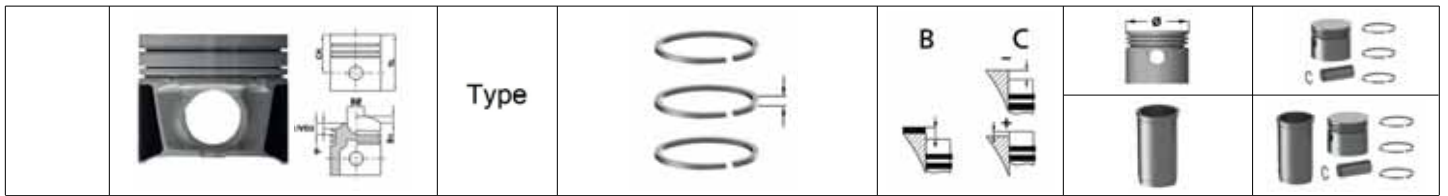
<p>K=109,00 L=243,00 H=201,90 D=114,00</p>	AF			51-95468-000	71-08805-000
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100,000

EDL2-1	D	1982	2 Cyl	1963cc	26kW	(35ps)
EDL3-1	D	1982	3 Cyl	2945cc	31kW	(42ps)
EDL4-1	D	1982	4 Cyl	3927cc	55kW	(75ps)
EDL6-3	D	1982	6 Cyl	5890cc	80kW	(104ps)

<p>11-02806-000 CH 81,000 VD1 0,750 B- 26,000 BØ 54,600 TL 121,000</p> <p> 35,00x85,00</p>		<p>91-09006-000</p> <p>1 3,000 CR 2 3,000 P 3 4,000 CrP</p>		Ø 100,000	31-04806-000
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<p>K=109,00 L=243,00 H=201,90 D=114,00</p>	AF			51-95468-000	71-08806-000
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100,000

DL4-2T	D	1981	4 Cyl	3927cc	65kW	(88ps)
EDL3-5T	D	1981	3 Cyl	2945cc	49kW	(66ps)
EDL6-5T	D	1981	6 Cyl	5890cc	92kW	(125ps)
EDL6-6T	D	1981	6 Cyl	5890cc	107kW	(145ps)

 11-02807-000 CH 81,000 VD1 0,750 B- 24,300 BØ 57,000 TL 121,000 35,00x85,00		91-09006-000 1 3,000 CR 2 3,000 P 3 4,000 CrP		Ø 100,000	31-04807-000
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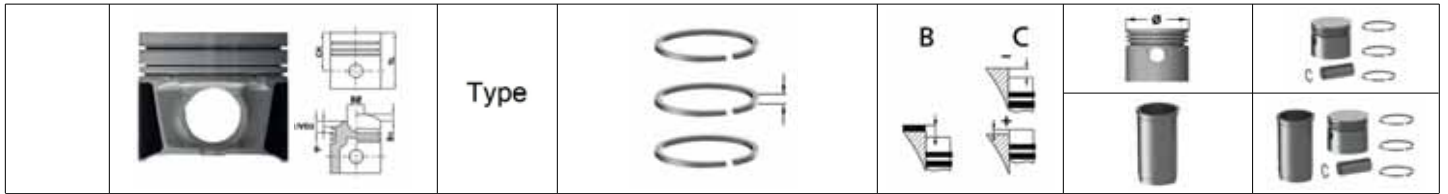
 K=109,00 L=243,00 H=201,90 D=114,00	AF			51-95468-000	71-08807-000
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100,000

EDK2-4	D		4 Cyl	1964cc	kW	(ps)
EDK3-4	D		3 Cyl	2946cc	kW	(ps)
EDK4-4	D		4 Cyl	3928cc	kW	(ps)
EDK6-4	D		6 Cyl	5890cc	kW	(ps)

 11-02815-000 CH 82,500 VD1 0,500 B- 30,000 BØ 25,600 TL 122,500 35,00x85,00		91-09007-000 1 3,000 CR 2 3,000 P 3 5,000 CrP		Ø 100,000	31-04815-000
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 K=109,00 L=243,00 H=201,90 D=114,00	AF			51-95468-000	71-08815-000
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123,000

2F / 4 D 1965 6 Cyl 9981cc


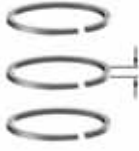
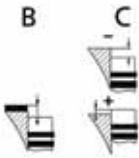

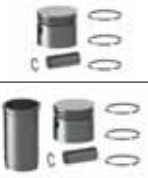


 11-01260-000 CH 90,300 B- 37,000 BØ 38,000 TL 165,000 45,00x102,00	AP	91-09260-000 1 3,000 CrP 2 3,000 P 3 3,000 P 4 6,000 P		Ø 123,000	31-03260-000
	K=138,95 L=281,50 H+F=15,30+0,50 D=148,95	WF	O-Ring/Seal 55-50906-000 2 NBR 130,00x3,50	51-05264-000 52-05264-000	71-07260-000 72-07260-000
	K=138,95 L=281,50 H+F=15,30+0,50 D=148,95	WF +0,10	O-Ring/Seal 55-50906-000 2 NBR 130,00x3,50	51-05264-010 52-05264-010	

125,000

2F-B D 1980 6 Cyl 11040cc 142kW (193ps)

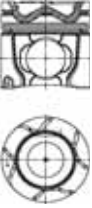




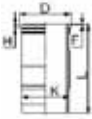
2FU-B D 1980 6 Cyl 11040cc 147kW (200ps)

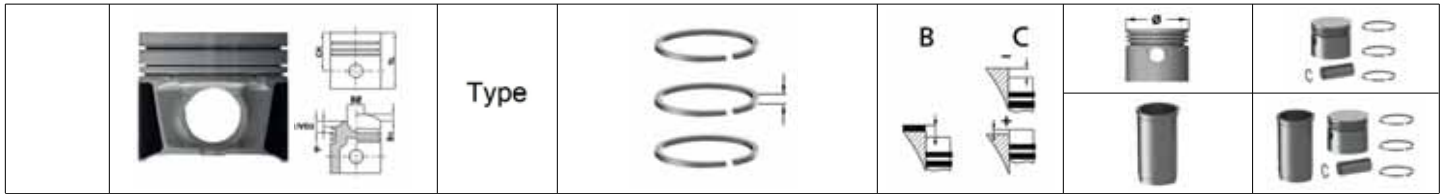
 11-02900-000 CH 89,300 B- 38,100 BØ 38,000 TL 137,800 46,00x108,00	AP	91-09900-000 1 3,500 CrP 2 3,000 P 3 6,000 CrP		Ø 125,000	31-04900-000
	K=138,95 L=281,50 H+F=15,30+0,50 D=148,95	WF	O-Ring/Seal 55-50907-000 2 NBR 130,00x4,00	51-05266-000 52-05266-000	71-08900-000 72-08900-000

	Type				
					

123,000

CA6DM D 11000cc (ps)

 <p>11-01090-000 CH 81,000 VD1 1,650 VD2 1,800 B- 20,000 BØ 75,700 TL 123,450</p>  54,00x100,00	AP YS	<p>91-09316-000</p> 1 3,500  CR 2 3,000  P 3 4,000  CR	Ø 123,000	31-03090-000
 <p>K=137,00 L=257,00 H+F=11,10+0,85 D=149,00</p>	WF		51-06135-000	71-08250-000



95,000									
802.000 / 8020.01 / 8025.01	D	1966	1971	2 Cyl	1560cc	18 kW	(25 ps)		
8030.01	D	1966	1971	3 Cyl	2340cc	28 kW	(38 ps)		
8035.01.303 / 306 / 308-309 / 320	D	1968	1986	3 Cyl	2338cc	28-35kW	(38-48ps)		
8045.01 / 804.000 / 8040.01	D	1966	1971	4 Cyl	3120cc	40-54 kW	(52-70 ps)		
806.000 / 8060.01 / 8065.01.000	D	1960		6 Cyl	4678cc	66-81 kW	(90-110 ps)		

<p>11-01402-000 CH 59,650 B- 23,500 BØ 42,500 TL 101,150</p> <p>32,00x82,50</p>				<p>91-09402-000 1 2,500 CrP 2 2,500 P 3 5,500 CrP</p>	+0,46/+0,79	<p>Ø 95,000 Ø 95,400 Ø 95,600</p>	<p>31-03402-000 31-03402-040 31-03402-060</p>


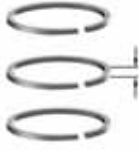
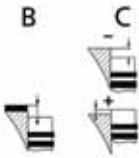

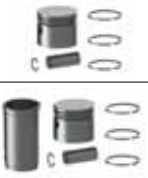
Fiat / Iveco ve Utb-Universal ile Ortak Motor

<p>K=99,08 L=187,50</p>	DS					51-65402-000
<p>K=99,05 L=187,50 H=6,00 D=100,05</p>	DS					51-65454-000
<p>K=103,03 L=187,50</p>	DS					51-66020-000

95,000									
8020.01	D			2 Cyl	1560cc	18kW	(25ps)		
8030.01	D	1966	1971	3 Cyl	2339cc	28-37kW	(38-51ps)		
8040.01	D	1968	1971	4 Cyl	3119cc	40-52kW	(54-70ps)		
8060.01	D	1960	1971	5 Cyl	4678cc	81kW	(110ps)		






<p>11-01404-000 CH 59,650 B- 23,500 BØ 42,500 TL 101,150</p> <p>32,00x82,50</p>	AP			<p>91-09402-000 1 2,500 CrP 2 2,500 P 3 5,500 CrP</p>	+0,46/+0,79	<p>Ø 95,000 Ø 95,400 Ø 95,600</p>	<p>31-03404-000 31-03404-040 31-03404-060</p>

<p>K=99,08 L=187,50</p>	DS					51-65402-000
<p>K=99,05 L=187,50 H=6,00 D=100,05</p>	DS					51-65454-000

	Type				
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99,000






F32 AM / GE / GEF / MNS / MNT / MNSX / MNTX / TM1X Euro 3	D	4 Cyl	3200cc	kW	(ps)
F5 C Euro 3	D	4 Cyl	3200cc	kW	(ps)
F5 CE Euro 3	D	4 Cyl	3200cc	kW	(ps)

	11-02827-000 CH 62,500 B- 19,900 BØ 50,000 TL 93,000	AP	91-09692-000 1 2,500  CdC 2 2,000  CK 3 2,500 		Ø 99,000 Ø 99,400	31-04827-000 31-04827-040
 36,00x81,00						
Claas ve Fiat / Iveco ile Ortak Motor						

	K=103,00 L=174,00 H=5,00 D=105,00	DS			51-65750-000	
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100,000


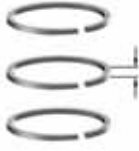






8035.06	D	1985	1988	3 Cyl	2710cc
8040.02 / 8045.06	D	1985		4 Cyl	3613cc

	11-01350-000 CH 65,100 B- 22,700 BØ 49,000 TL 108,500	AP	91-09403-000 1 2,500  CrP 2 2,500  P 3 5,500 		Ø 100,000 Ø 100,400 Ø 100,600	31-03350-000 31-03350-040 31-03350-060
 38,00x85,00						

100,000





Tier YESIL MOTOR	D			3 Cyl	cc	kW	(50-55ps)
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	11-01351-000 CH 65,330 B- 20,000 BØ 48,200 TL 108,680		91-09406-000 1 2,500  CrP 2 2,500  P 3 4,000 		Ø 100,000	31-03351-000
 38,00x85,00						

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

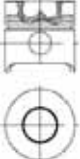



100,000

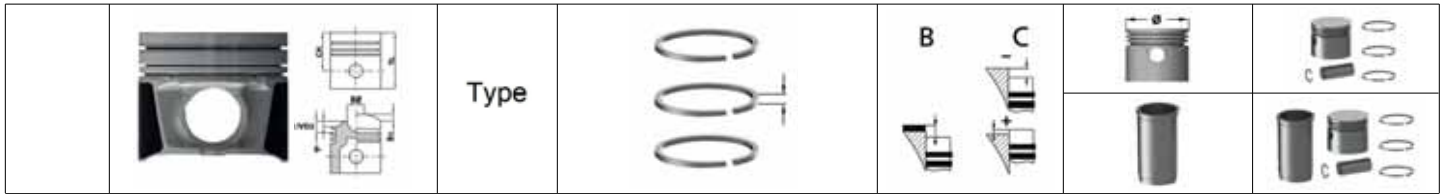
8045.06 TURBO D 4 Cyl (ps)

	<p>11-01353-000 CH 65,100 B- 22,700 BØ 49,000 TL 108,500</p>	<p>AP</p>	<p>91-09406-000 1 2,500  CrP 2 2,500  P 3 4,000  CrP</p>	<p>Ø 100,000 Ø 100,400 Ø 100,600</p>	<p>31-03353-000 31-03353-040 31-03353-060</p>

100,000












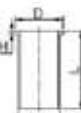
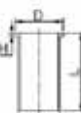
8025.02	D	2 Cyl	1728cc
8030.02 / 8035.02	D	3 Cyl	2592cc
8040.02 / 8045.02	D	4 Cyl	3456cc
8060.02 / 8065.02	D	6 Cyl	5184cc

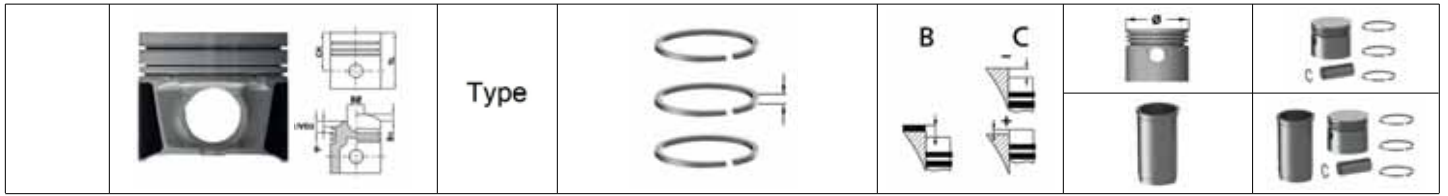
	<p>11-01354-000 CH 59,650 B- 23,700 BØ 47,000 TL 101,150</p>		<p>91-09403-000 1 2,500  CrP 2 2,500  P 3 5,500  CrP</p>	<p>Ø 100,000 Ø 100,600</p>	<p>31-03354-000 31-03354-060</p>



100,000

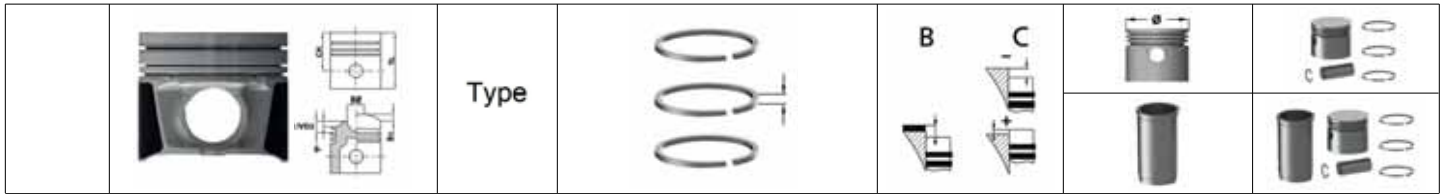
8025.02	D	1972	2 Cyl	1727cc
8030.02 / 8035.02	D	1969	3 Cyl	2592cc
8040.02 / 8045.02	D	1973	4 Cyl	3456cc
8060.02 / 8065.02	D	1972	6 Cyl	5184cc

 11-01403-000 CH 59,650 B- 23,700 BØ 47,000 TL 101,150  32,00x84,00	91-09403-000 1 2,500  CrP 2 2,500  P 3 5,500  CrP	+0,46/+0,79	Ø 100,000 Ø 100,600	31-03403-000 31-03403-060
 K=103,06 L=187,50	DS			51-65403-000
 K=103,20 L=187,50	DS +0,20			51-65403-020
 K=103,55 L=187,50	DS +0,50			51-65403-050
 K=104,06 L=187,50	DS +1,00			51-65403-100
 K=103,05 L=187,50 H=6,00 D=104,05	DS			51-65404-000
 K=103,50 L=187,50 H=6,00 D=104,50	DS +0,50			51-65404-050
 K=104,05 L=187,50 H=6,00 D=105,00	DS +1,00			51-65404-100
 K=104,50 L=187,50 H=6,00 D=105,50	DS +1,50			51-65404-150



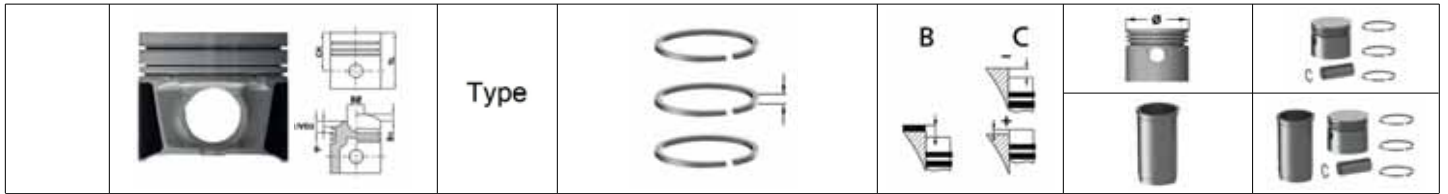
100,000	
8035.06	D 1985 1988 3 Cyl 2710cc 40kW (55ps)
8040.02 / 8045.06	D 1985 4 Cyl 3613cc 48kW (65ps)

	<p>11-01405-000 CH 65,100 B- 22,700 BØ 49,000 TL 108,500</p> <p>38,00x84,00</p>		<p>91-09406-000 1 2,500 CrP 2 2,500 P 3 4,000 CrP</p>	<p>+0,365/+0,761</p>	<p>Ø 100,000 Ø 100,400 Ø 100,600</p>	<p>31-03405-000 31-03405-040 31-03405-060</p>
	<p>K=103,06 L=196,00</p>	<p>DS</p>			<p>51-65406-000</p>	
	<p>K=103,55 L=196,00</p>	<p>DS +0,50</p>			<p>51-65406-050</p>	
	<p>K=103,05 L=196,00 H=6,00 D=104,05</p>	<p>DS</p>			<p>51-65449-000</p>	
	<p>K=103,50 L=196,00 H=6,00 D=104,50</p>	<p>DS +0,50</p>			<p>51-65449-050</p>	
	<p>K=104,05 L=196,00 H=6,00 D=105,00</p>	<p>DS +1,00</p>			<p>51-65449-100</p>	



100,000	
8040.02	D 1971 1981 4 Cyl 3456cc 60kW (82ps)
8040.02.041 / 267 / 300 / 367	D 1972 1990 4 Cyl 3456cc 56kW (76ps)
8040.02.360	D 1972 1990 4 Cyl 3456cc 44kW (60ps)

<p>11-01406-000 CH 59,650 B- 23,500 BØ 47,100 TL 101,150</p> <p>34,00x84,00</p>		<p>91-09406-000</p> <p>1 2,500 CrP 2 2,500 P 3 4,000 CrP</p>	+0,365/+0,761	<p>Ø 100,000 Ø 100,600</p>	<p>31-03406-000 31-03406-060</p>
<p>K=103,06 L=187,50</p>	DS			51-65403-000	
<p>K=103,20 L=187,50</p>	DS +0,20			51-65403-020	
<p>K=103,55 L=187,50</p>	DS +0,50			51-65403-050	
<p>K=104,06 L=187,50</p>	DS +1,00			51-65403-100	
<p>K=103,05 L=187,50 H=6,00 D=104,05</p>	DS			51-65404-000	
<p>K=103,50 L=187,50 H=6,00 D=104,50</p>	DS +0,50			51-65404-050	
<p>K=104,05 L=187,50 H=6,00 D=105,00</p>	DS +1,00			51-65404-100	
<p>K=104,50 L=187,50 H=6,00 D=105,50</p>	DS +1,50			51-65404-150	



102,000							
D 115		D	4 Cyl	2340cc	33kW	(45ps)	
D 115,050		D	4 Cyl	2340cc	39kW	(53ps)	
D 121,050 / D 171,050		D	4 Cyl	3595cc	47kW	(64ps)	
D 2404,062		D	4 Cyl	3759cc	61kW	(83ps)	

	11-01415-000 CH 59,500 B- 24,500 BØ 48,500 TL 101,000		91-09415-000 1 2,500 CR 2 2,500 P 3 5,000 CR		Ø 102,000	31-03415-000
	K=110,00 L=222,30 H=137,30 D=120,00	AF			51-95513-000	71-07415-000
	K=110,00 L=222,30 H=136,80 D=120,00	AF		O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50	51-96213-000 52-96213-000	71-07409-000 72-07409-000

102,000							
F4 AE 3481		D	2006 2008	4 Cyl	3922cc	134kW	(182ps)
F4 AE 3682 A / B / C Euro 4		D		6 Cyl	5883cc	kW	(ps)
F4 AE 3682 E Euro 4		D		6 Cyl	5883cc	194 kW	(264 ps)

	11-02265-000 CH 71,380 B- 17,150 BØ 76,000 TL 105,380	AP YS	91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP		Ø 102,000 Ø 102,500	31-04265-000 31-04265-050

102,000							
F4AE0454A / F4BE0454B		D		6 Cyl	5900cc	kW	(ps)

	11-02834-000 CH 71,450 B- 22,000 BØ 51,300 TL 105,300	AP	91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP		Ø 102,000	31-04834-000

	Type		B C		

102,000

F4BE0684B

D

4 Cyl

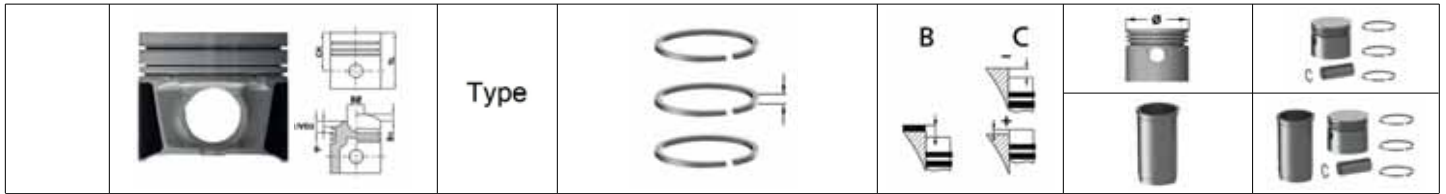
5900cc

	11-02839-000 CH 71,350 B- 22,000 BØ 51,300 TL 105,300	AP	91-09369-000 1 3,000 Mo 2 3,000 P 3 4,000 CrP		Ø 102,000	31-04839-000
	40,00x83,00					

102,000

F4 AE 0481 A Euro 3	D	2000	2003	4 Cyl	3920cc	125kW	(170ps)
F4 AE 0481 C Euro 3	D	2000	2003	4 Cyl	3920cc	110kW	(149ps)
F4 AE 0481 D Euro 3	D	2000	2003	4 Cyl	3920cc	95kW	(130ps)
F4 AE 0681 A Euro 3	D	2000	2003	6 Cyl	5880cc	202kW	(275ps)
F4 AE 0681 B Euro 3	D	2000	2003	6 Cyl	5880cc	176kW	(239ps)
F4 AE 0681 D Euro 3	D	2000	2003	6 Cyl	5880cc	154kW	(210ps)
F4 AE 0681 E Euro 3	D	2000	2003	6 Cyl	5880cc	134kW	(182ps)
F4 AE 0684 C	D			6 Cyl	5880cc	169kW	(227ps)

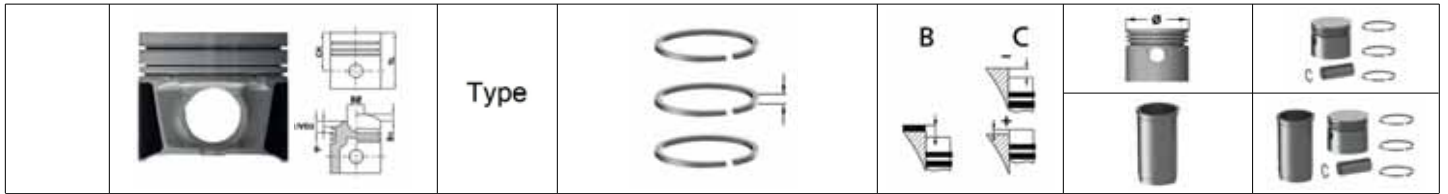
	11-02847-000 CH 71,380 B- 18,550 BØ 56,000 TL 105,380	AP YS	91-09370-000 1 3,000 CR 2 2,350 P 3 4,000 CrP	+0,45/+0,65	Ø 102,000 Ø 102,500 Ø 103,000	31-04847-000 31-04847-050 31-04847-100
	40,00x82,68					
	K=105,00 L=202,00 H=5,00 D=108,00	DS			51-65130-000	



103,000

8031.04.300	D	1979	1984	3 Cyl	2749cc	40kW	(54ps)
8035.04.265 / 270 / 272 / 300 / 359 / 370 / 376-378	D	1970		3 Cyl	2749cc	35-43kW	(48-58ps)
8035.44.059	D	1980	1987	3 Cyl	2749cc	35kW	(48ps)
8040.04.200 / 280	D	1983	1986	4 Cyl	3666cc	63kW	(85ps)
8041.04.200 / 250 / 260 / 300	D	1979	1988	4 Cyl	3666cc	50-63kW	(68-88ps)
80411.002 / 1.004 / 1.005 / 1.006	D	1982		4 Cyl	3666cc	52-59kW	(71-80ps)
8045.04.189 / 270 / 275-277 / 293 / 300 / 359 / 370 / 376 / 377	D	1975	1985	4 Cyl	3666cc	48-57kW	(65-78ps)
80511105	D	1982	1987	5 Cyl	4583cc	72kW	(98ps)
8055.04.200	D	1980	1984	5 Cyl	4583cc	63-66kW	(86-90ps)
8055.04.205	D	1981	1984	5 Cyl	4583cc	65kW	(88ps)
8055.04.250	D	1981	1981	5 Cyl	4583cc	60kW	(82ps)
8060.04.000 / 051-052 / 055 / 060 / 066 / 070 / 620 / 621 / 630 / 639 / 658 / 660-662 / 669-670 / 672 / 675 / 689	D	1978	1990	6 Cyl	5499cc	73-102kW	(99-139ps)
8060.05.661-663 / 673	D	1986	1988	6 Cyl	5499cc	81-96kW	(110-120ps)
8065.04.089 / 095 / 097 / 200 / 217 / 270	D	1976	1988	6 Cyl	5499cc	53-85kW	(72-115ps)

<p>11-01407-000 CH 59,650 B- 22,700 BØ 50,000 TL 101,150</p> <p> 34,00x89,80</p>	<p>91-09407-000</p> <p>1 2,500 CrP 2 2,500 P 3 4,000 CrP</p>	+0,465/+0,785	<p>Ø 103,000 Ø 103,600</p>	<p>31-03407-000 31-03407-060</p>
<p>K=107,05 L=187,50</p>	DS		51-65407-000	71-07407-000
<p>K=107,15 L=187,50</p>	DS +0,10		51-65407-010	
<p>K=107,25 L=187,50</p>	DS +0,20		51-65407-020	
<p>K=107,05 L=187,50 H=6,00 D=108,00</p>	DS		51-65456-000	
<p>K=107,50 L=187,50 H=6,00 D=108,50</p>	DS +0,50		51-65456-050	
<p>K=108,05 L=187,50 H=6,00 D=109,00</p>	DS +1,00		51-65456-100	

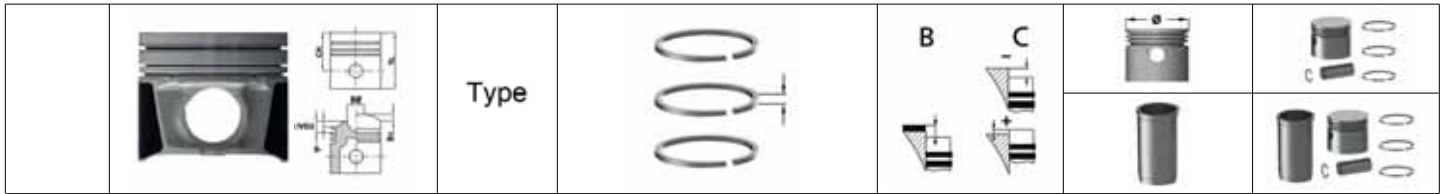


103,000						
8060.24			D	6 Cyl	5499cc	kW (ps)

	11-02835-000 CH 59,650 B- 22,700 BØ 51,000 TL 101,150	AP	91-09933-000 1 3,000 MoP	Ø 103,000	31-04835-000
		HA	2 2,500 P		
			3 4,000 CrP		
34,00x90,00					

103,000						
8060.24.001			D	1982 1988	6 Cyl	5500cc

	11-02842-000 CH 59,600 B- 22,700 BØ 51,000 TL 101,150	AP	91-09933-000 1 3,000 MoP	Ø 103,000	31-04842-000
			2 2,500 P		
			3 4,000 CrP		
34,00x90,00					



103,000								
8031.04.300		D	1979	1984	3 Cyl	2749cc	40kW	(54ps)
8035.04.265 / 270 / 272 / 300 / 359 / 370 / 376-378		D	1970		3 Cyl	2749cc	35-43kW	(48-58ps)
8035.44.059		D	1980	1987	3 Cyl	2749cc	35kW	(48ps)
8040.04.200 / 280		D	1983	1986	4 Cyl	3666cc	63kW	(85ps)
8041.04.200 / 250 / 260 / 300		D	1979	1988	4 Cyl	3666cc	50-63kW	(68-88ps)
80411.002 / 1.004 / 1.005 / 1.006		D	1982		4 Cyl	3666cc	52-59kW	(71-80ps)
8045.04.189 / 270 / 275-277 / 293 / 300 / 359 / 370 / 376 / 377		D	1975	1985	4 Cyl	3666cc	48-57kW	(65-78ps)
80511105		D	1982	1987	5 Cyl	4583cc	72kW	(98ps)
8055.04.200		D	1980	1984	5 Cyl	4583cc	63-66kW	(86-90ps)
8055.04.205		D	1981	1984	5 Cyl	4583cc	65kW	(88ps)
8055.04.250		D	1981	1981	5 Cyl	4583cc	60kW	(82ps)
8060.04.000 / 051-052 / 055 / 060 / 066 / 070 / 620-621 / 630 / 639 / 658 / 660-662 / 669 / 670 / 672 / 675 / 689		D	1978	1990	6 Cyl	5499cc	73-102kW	(99-139ps)
8060.05.661-663 / 673		D	1986	1988	6 Cyl	5499cc	81-96kW	(110-120ps)
8065.04.089 / 095 / 097 / 200 / 217 / 270		D	1976	1988	6 Cyl	5499cc	53-85kW	(72-115ps)

<p>11-02930-000 CH 59,650 B- 22,400 BØ 52,000 TL 101,000</p> <p> 34,00x90,00</p>	AP	<p>91-09407-000</p> <p>1 2,500 CrP</p> <p>2 2,500 P</p> <p>3 4,000 CrP</p>	Ø 103,000	31-04930-000
<p>K=107,05 L=187,50</p>	DS		51-65407-000	
<p>K=107,15 L=187,50</p>	DS +0,10		51-65407-010	
<p>K=107,25 L=187,50</p>	DS +0,20		51-65407-020	
<p>K=107,05 L=187,50 H=6,00 D=108,00</p>	DS		51-65456-000	
<p>K=107,50 L=187,50 H=6,00 D=108,50</p>	DS +0,50		51-65456-050	
<p>K=108,05 L=187,50 H=6,00 D=109,00</p>	DS +1,00		51-65456-100	

	Type		B C		

103,000

8060.24.601

D 1983 1985 6 Cyl 5499cc 124kW (169ps)

	11-02933-000 CH 59,610 B- 22,500 BØ 53,000 TL 101,150	AP	91-09933-000 1 3,000 MoP 2 2,500 P 3 4,000 CrP	Ø 103,000	31-04933-000

104,000

TUMOSAN 8045.25 231

D 4 Cyl cc kW (ps)


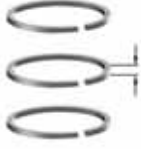
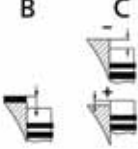




	11-01000-000 CH 65,330 B- 23,260 BØ 45,540 TL 104,330	AP	91-09409-000 1 3,000 MoP 2 2,500 P 3 4,000 CR	Ø 104,000 Ø 104,600	31-03000-000 31-03000-060

104,000

TUMOSAN 8045.25 231 Euro2 / 8045.05/25







D 4 Cyl 3900cc 66-74kW (90-100ps)

	11-01001-000 CH 65,330 B- 21,400 BØ 48,200 TL 104,330	AP	91-09409-000 1 3,000 MoP 2 2,500 P 3 4,000 CR	Ø 104,000 Ø 104,600	31-03001-000 31-03001-060

	Type				
					

104,000







TUMOSAN 4DT39 D 4 Cyl cc

 	11-01002-000 CH 65,330 B- 23,260 BØ 45,540 TL 104,330  38,00x84,80	AP	91-09315-000 1 3,000  CrP 2 2,385  P 3 3,500  CrP	Ø 104,000 Ø 107,100	31-03002-000 31-03002-060

104,000







8035.05 D 2004 3 Cyl

8045.05/25 D 2004 4 Cyl

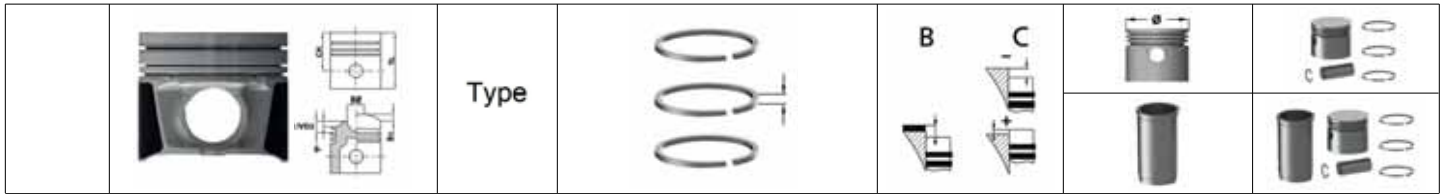
 	11-01030-000 CH 65,330 B- 21,400 BØ 48,200 TL 104,330  38,00x85,00	AP	91-09409-000 1 3,000  MoP 2 2,500  P 3 4,000  CR	Ø 104,000	31-03030-000

104,000

8045.25D.313T D 4 Cyl 3908cc 76kW (110ps)


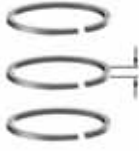
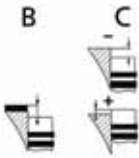

 	11-01031-000 CH 65,330 B- 18,200 BØ 58,000 TL 104,330  38,00x85,00	AP	91-09409-000 1 3,000  MoP 2 2,500  P 3 4,000  CR	Ø 104,000	31-03031-000

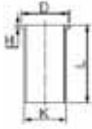


Iveco ve Ihc/Case ile Ortak Motor



104,000										
8031.05.300			D	1985	1989	3 Cyl	2931cc	43kW	(58ps)	
8035.05.000 / 200 / 206 / 216 / 265 / 306-309 / 317 / 358 / 359 / 377				D	1984		3 Cyl	2931cc	37-44kW	(50-60ps)
8040.05.200 / 203 / 230 / 232 / 233 / 235				D	1987	1992	4 Cyl	3908cc	65kW	(88ps)
8045.05.000 / 200 / 204-209 / 216 / 217 / 300 / 304 / 306-309 / 317 / 359 / 389 / 393 / 395				D	1984		4 Cyl	3908cc	57-60kW	(78-82ps)
8045.06.206				D	1984		4 Cyl	3908cc	51kW	(70ps)
8055.05.000 / 200 / 205 / 250				D	1984		5 Cyl	4885cc	66-72kW	(90-98ps)
8060.05.000 / 200 / 201 / 203 / 205 / 246 / 270 / 276 / 280 / 284-286 / 288 / 289				D	1985		6 Cyl	5863cc	79-102kW	(108-138ps)
8065.05.000				D	1984		6 Cyl	5863cc	85kW	(115ps)

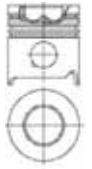




<p>11-01340-000 CH 65,100 B- 22,700 BØ 51,700 TL 108,500</p> <p>38,00x85,00</p>			<p>91-09340-000</p> <p>1 2,500 CrP 2 2,500 P 3 4,000 CrP</p>			<p>Ø 104,000 Ø 104,600</p>	<p>31-03340-000 31-03340-060</p>
<p>K=107,05 L=198,00</p>		DS				51-65408-000	
<p>K=107,17 L=197,00</p>		DS +0,20				51-65408-020	
<p>K=107,56 L=198,00</p>		DS +0,50				51-65408-050	
<p>K=108,07 L=198,00</p>		DS +1,00				51-65408-100	
<p>K=106,97 L=198,00 H=5,05 D=109,85</p>		DS				51-65409-000	
<p>K=107,07 L=198,00 H=5,05 D=110,05</p>		DS +0,10				51-65409-010	
<p>K=107,17 L=198,00 H=5,05 D=110,05</p>		DS +0,20				51-65409-020	


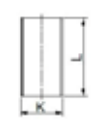
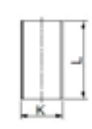
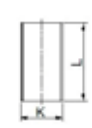


	Type			
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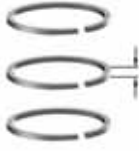



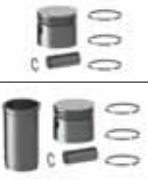
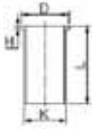
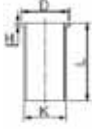

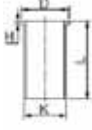
	K=107,50 L=198,00 H=6,00 D=110,35	DS +0,50			51-65409-050
	K=108,00 L=198,00 H=6,00 D=110,35	DS +1,00			51-65409-100
	K=108,50 L=198,00 H=6,00 D=111,00	DS +1,50			51-65409-150

104,000

8065,05 D 1984 6 Cyl cc 85kW (115ps)

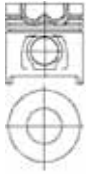




	11-01341-000 CH 65,150 B- 22,300 BØ 54,500 TL 108,500	AP	91-09409-000 1 3,000  MoP 2 2,500  P 3 4,000  CR		Ø 104,000	31-03341-000
	38,00x89,00					

	K=107,05 L=198,00	DS			51-65408-000
	K=107,17 L=197,00	DS +0,20			51-65408-020
	K=107,56 L=198,00	DS +0,50			51-65408-050
	K=108,07 L=198,00	DS +1,00			51-65408-100
	K=106,97 L=198,00 H=5,05 D=109,85	DS			51-65409-000
	K=107,07 L=198,00 H=5,05 D=110,05	DS +0,10			51-65409-010

		Type		B  C 		
	K=107,17 L=198,00 H=5,05 D=110,05	DS +0,20			51-65409-020	
	K=107,50 L=198,00 H=6,00 D=110,35	DS +0,50			51-65409-050	
	K=108,00 L=198,00 H=6,00 D=110,35	DS +1,00			51-65409-100	
	K=108,50 L=198,00 H=6,00 D=111,00	DS +1,50			51-65409-150	

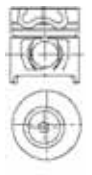




104,000

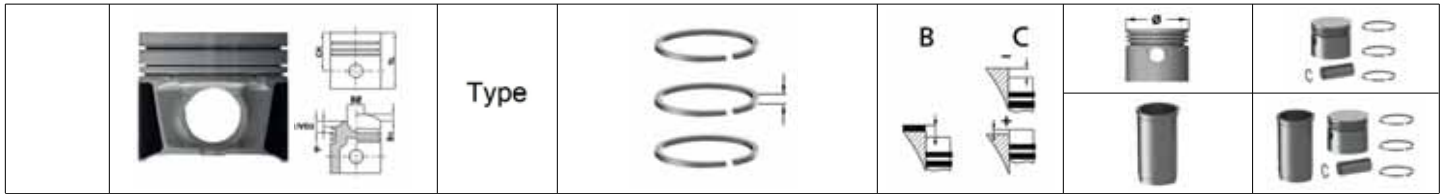
8035.05.215	D	1983	3 Cyl	44kW	(60ps)
8045.05.000	D	1987	4 Cyl	59kW	(80ps)
8045.05.213-215	D	1983	4 Cyl	55kW	(75ps)

	11-01343-000 CH 65,100 B- 22,700 BØ 51,700 TL 108,500	AP	91-09340-000 1 2,500  CrP 2 2,500  P 3 4,000  CrP		Ø 104,000 Ø 104,600	31-03343-000 31-03343-060
	38,00x85,00					

104,000

YESIL MOTOR Turbosuz	D		3 Cyl	2900cc	kW	(60ps)
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	11-01352-000 CH 65,330 B- 21,400 BØ 48,200 TL 104,330		91-09340-000 1 2,500  CrP 2 2,500  P 3 4,000  CrP		Ø 104,000	31-03352-000
	38,00x85,00					



104,000	
8040.25.200-203	D 1987 1992 6 Cyl 3908cc (115ps)
8060.25.600 / 605	D 1986 6 Cyl 5868cc (177ps)

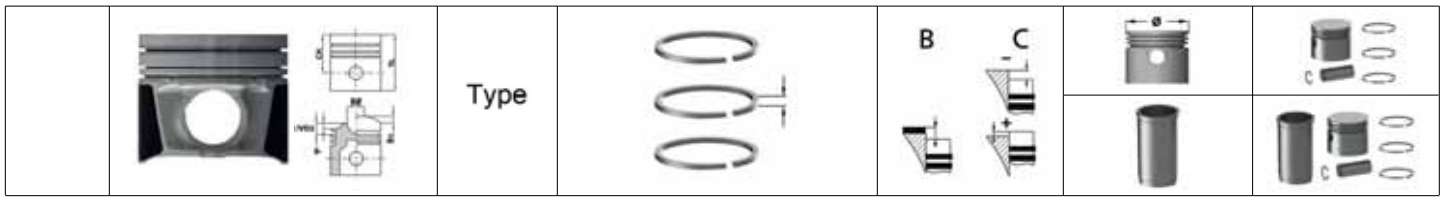
<p>11-01355-000 CH 65,150 B- 20,880 BØ 54,500 TL 104,150</p> <p>38,00x85,00</p>	AP	<p>91-09409-000</p> <p>1 3,000 MoP 2 2,500 P 3 4,000 CR</p>	<p>Ø 104,000 Ø 104,600</p> <p>31-03355-000 31-03355-060</p>
<p>K=107,05 L=198,00</p>	DS		51-65408-000
<p>K=107,17 L=197,00</p>	DS +0,20		51-65408-020
<p>K=107,56 L=198,00</p>	DS +0,50		51-65408-050
<p>K=108,07 L=198,00</p>	DS +1,00		51-65408-100
<p>K=106,97 L=198,00 H=5,05 D=109,85</p>	DS		51-65409-000
<p>K=107,07 L=198,00 H=5,05 D=110,05</p>	DS +0,10		51-65409-010
<p>K=107,17 L=198,00 H=5,05 D=110,05</p>	DS +0,20		51-65409-020
<p>K=107,50 L=198,00 H=6,00 D=110,35</p>	DS +0,50		51-65409-050

		Type				
	K=108,00 L=198,00 H=6,00 D=110,35	DS +1,00			51-65409-100	
	K=108,50 L=198,00 H=6,00 D=111,00	DS +1,50			51-65409-150	

104,000

8031.05.300	D	1985	1989	3 Cyl	2931cc	43kW	(58ps)
8035.05.000 / 200 / 206 / 208 / 216 / 265 / 306-309 / 317 / 359 / 389 / 393 / 395	D	1984		3 Cyl	2931cc	37-44kW	(50-60ps)
8040.05.200 / 203 / 230 / 232-233 / 235	D	1987	1992	4 Cyl	3908cc	65kW	(88ps)
8045.05.000 / 200 / 204-209 / 216 / 217 / 300 / 304 / 306-309 / 317 / 359 / 389 / 393 / 395	D	1984		4 Cyl	3908cc	57-60kW	(78-82ps)
8045.06.206	D	1984		4 Cyl	3908cc	51kW	(70ps)
8055.05.000 / 200 / 205 / 250	D	1984		5 Cyl	4885cc	66-72kW	(90-98ps)
8060.05.000 / 200-201 / 203 / 205 / 246 / 270 / 276 / 280 / 284-286 / 288 / 289	D	1985		6 Cyl	5863cc	79-102kW	(108-138ps)
8065.05.000	D	1984	1990	6 Cyl	5863cc	85kW	(115ps)

	11-01408-000 CH 65,150 B- 22,500 BØ 52,200 TL 108,500	AP	91-09340-000 1 2,500 CrP 2 2,500 P 3 4,000 CrP	+0,46/+0,79	Ø 104,000 Ø 104,600	31-03408-000 31-03408-060
	K=107,05 L=198,00	DS			51-65408-000	
	K=107,17 L=197,00	DS +0,20			51-65408-020	
	K=107,56 L=198,00	DS +0,50			51-65408-050	
	K=108,07 L=198,00	DS +1,00			51-65408-100	
	K=106,97 L=198,00 H=5,05 D=109,85	DS			51-65409-000	



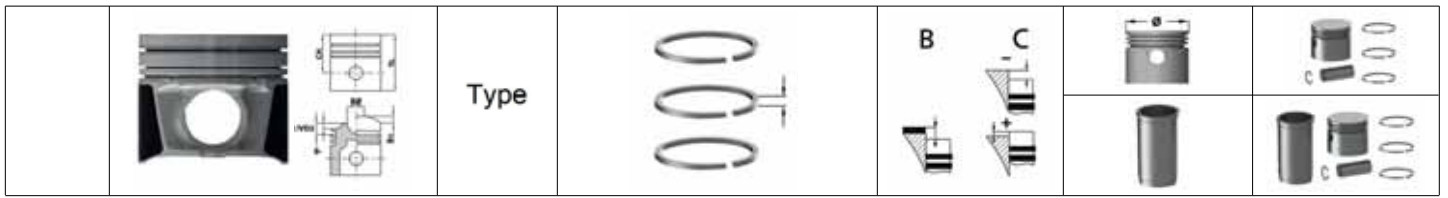
	Type					
	K=107,07 L=198,00 H=5,05 D=110,05	DS +0,10				51-65409-010
	K=107,17 L=198,00 H=5,05 D=110,05	DS +0,20				51-65409-020
	K=107,50 L=198,00 H=6,00 D=110,35	DS +0,50				51-65409-050
	K=108,00 L=198,00 H=6,00 D=110,35	DS +1,00				51-65409-100
	K=108,50 L=198,00 H=6,00 D=111,00	DS +1,50				51-65409-150

104,000

8040.25.000 / 200-203 / 207 / 208 / 220 / 222-223 / 225 / 229-231 / 233 / 234 / 600	D	1987	1992	4 Cyl	3908cc	74-85kW	(101-115ps)
8060.25.000 Euro2	D	1991	2001	6 Cyl	5863cc	130kW	(177ps)
8060.25.600-605 / 621 / 630 / 631 / 641 / 662-663 / 669 / 670 / 673 / 678 / 679	D	1983	1999	6 Cyl	5863cc	92-130kW	(120-177ps)
8060.25.661	D	1986	1988	6 Cyl	5863cc	92kW	(120ps)
8065.05.220	D	1986		6 Cyl	5863cc	81kW	(110ps)
8065.25.080 / 094	D	1988		6 Cyl	5863cc	105kW	(143-150ps)

	11-01409-000 CH 65,100 B- 22,500 BØ 54,500 TL 104,150	AP	91-09409-000 1 3,000 MoP 2 2,500 P 3 4,000 CR	+0,46/+0,79	Ø 104,000 Ø 104,600	31-03409-000 31-03409-060
	38,00x85,00					

	K=106,97 L=198,00 H=5,05 D=109,85	DS				51-65409-000
	K=107,07 L=198,00 H=5,05 D=110,05	DS +0,10				51-65409-010

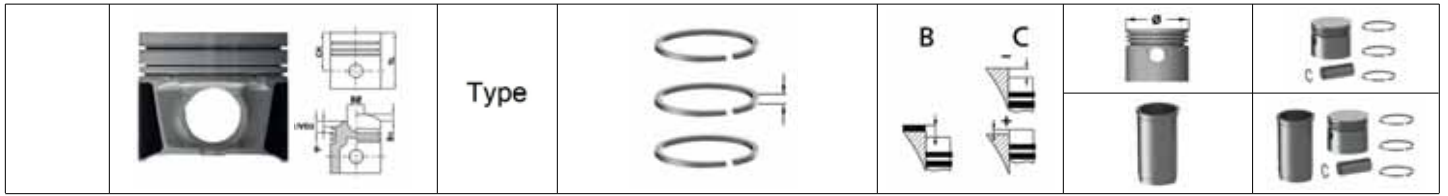


	Type				
	DS +0,20				51-65409-020
	DS +0,50				51-65409-050
	DS +1,00				51-65409-100
	DS +1,50				51-65409-150
	DS				51-65758-000
	DS +0,50				51-65758-050

104,000

NEF45 SM1	D	4 Cyl	3364cc	59kW	(80ps)
NEF45 SM2	D	4 Cyl	3364cc	66kW	(90ps)
NEF45 TM1	D	4 Cyl	4500cc	85kW	(116ps)
NEF45 TM2	D	4 Cyl	4500cc	87kW	(118ps)
NEF67 SM1	D	6 Cyl	6700cc	110kW	(150ps)
NEF67 TM3	D	6 Cyl	6700cc	152kW	(207ps)

 	11-02263-000 CH 62,385 B- 24,200 BØ 52,500 TL 96,385	AP	91-09416-000 1 3,000 CK 2 2,385 P 3 4,000 CR	Ø 104,000 Ø 104,400	31-04263-000 31-04263-040
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104,000

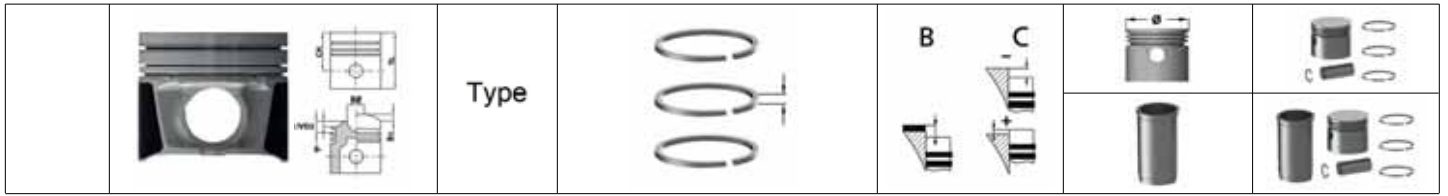
F4 AE 0686B	D	2006	6 Cyl	6700cc	272kW	(369ps)
F4 GE 0454A / 0455B / 9454H/ 9484F	D		6 Cyl	6700cc	74kW	(100ps)
F4 GE 0484C	D		4 Cyl	4500cc	94kW	(128ps)
F4 GE 0485A	D		6 Cyl	6700cc	98kW	(133ps)
F4 GE 0485C	D		6 Cyl	6700cc	87kW	(118ps)
F4 GE 0655B	D		6 Cyl	6700cc	125kW	(169ps)
F4 GE 0685B	D		6 Cyl	6700cc	152-165kW	(206-224ps)
F4 GE 0685D	D		6 Cyl	6700cc	130kW	(176ps)
F4 GE 9454J	D		4 Cyl	4500cc	63kW	(85ps)
F4 GE 9484F	D		4 Cyl	4500cc	70kW	(95ps)
N45MNS Euro3	D		4 Cyl	4500cc	66 kW	(90 ps)
N45MNT Euro3	D		4 Cyl	4500cc	93kW	(126ps)
NEF45SM1	D		4 Cyl	4500cc	59kW	(80ps)
NEF45TM1	D		4 Cyl	4500cc	85kW	(116ps)
NEF67SM1	D		6 Cyl	6700cc	110kW	(150ps)

	11-02264-000 CH 62,385 B- 24,200 BØ 52,400 TL 96,400	AP	91-09416-000 1 3,000 CK 2 2,385 P 3 4,000 CR	Ø 104,000 Ø 104,400	31-04264-000 31-04264-040

104,000

F4GE0404	D	2004	4 Cyl	4485cc	60kW	(81ps)
F4GE0604	D	2004	6 Cyl	6728cc	81kW	(110ps)

	11-02826-000 CH 62,400 B- 23,920 BØ 47,800 TL 96,400		91-09340-000 1 2,500 CrP 2 2,500 P 3 4,000 CrP	Ø 104,000	31-04826-000



104,000							
N45 ENT Euro 3		Type		D	4 Cyl	4500cc	104kW (141ps)
N45 MNS Euro 3				D	4 Cyl	4500cc	66kW (90ps)
N45 MNT Euro 3				D	4 Cyl	4500cc	93kW (126ps)
N45 MSS Euro 3				D	4 Cyl	4500cc	66kW (90ps)
N67 ENT Euro 3				D	6 Cyl	6700cc	175kW (238ps)
N67 MNT Euro 3				D	6 Cyl	6700cc	129kW (175ps)

<p>11-02828-000 CH 62,390 B- 20,480 BØ 57,510 TL 96,380</p> <p>38,00x82,00</p>	AP	<p>91-09416-000</p> <p>1 3,000 CK</p> <p>2 2,385 P</p> <p>3 4,000 CR</p>		Ø 104,000	31-04828-000

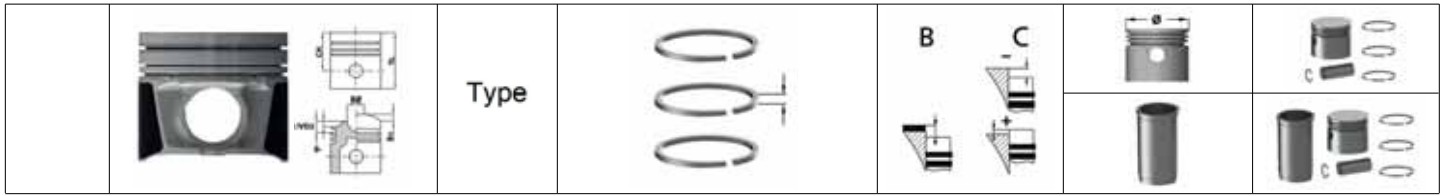
104,000							
F4 HE 968 A Euro 3				D	6 Cyl	6700cc	kW (ps)
N67 ENT Euro 3				D	6 Cyl	6700cc	175kW (238ps)
N67 ENT x20.00 Euro 3				D	6 Cyl	6700cc	kW (ps)

<p>11-02829-000 CH 62,400 B- 21,000 BØ 59,500 TL 96,500</p> <p>38,00x82,00</p>	AP YS	<p>91-09416-000</p> <p>1 3,000 CK</p> <p>2 2,385 P</p> <p>3 4,000 CR</p>		Ø 104,000 Ø 104,400	31-04829-000 31-04829-040

Fiat / Iveco ve New Holland ile Ortak Motor

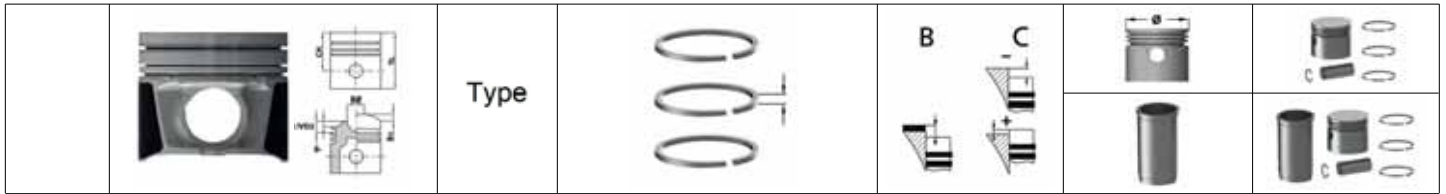
104,000							
60.65,60.66,60.90,FL4				D	1983	4 Cyl	2931cc
Engine				D	1996	5 Cyl	3908cc
SeriesTNF65				D	1996	4 Cyl	3908cc

<p>11-02832-000 CH 65,330 B- 21,400 BØ 48,200 TL 104,330</p> <p>38,00x85,00</p>		<p>91-09340-000</p> <p>1 2,500 CrP</p> <p>2 2,500 P</p> <p>3 4,000 CrP</p>		Ø 104,000 Ø 104,600	31-04832-000 31-04832-060










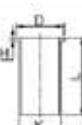
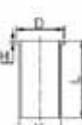


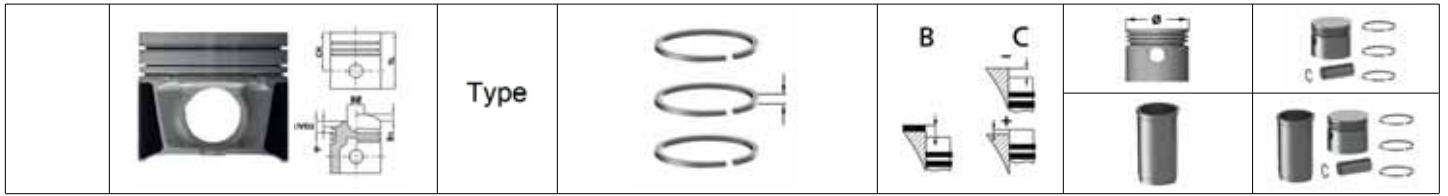
104,000							
8040.05.4990	D		4 Cyl	3908cc	80kW	(109ps)	
8040.25.4200 / 400 / 420 / 4000 / 4200	D	1986	1996	4 Cyl	3908cc	85kW	(115ps)
8040.25R.4200	D	1991	1996	4 Cyl	3908cc	85kW	(115ps)
8040.25X.4000 / 4927	D	1991	1996	4 Cyl	3908cc	85kW	(116ps)
8060.25.4200 / 400 / 420 / 4000 / 4200	D	1991	2000	6 Cyl	5861cc	130kW	(177ps)
8060.25.4200 / 4300 / 4700 / 4900 Series	D	1991	2000	6 Cyl	5861cc	105kW	(143ps)
8060.25V.40004080 / 4800 Euro1	D	1991	2003	6 Cyl	5861cc	130kW	(177ps)

<p>11-02850-000 CH 65,330 B- 21,000 BØ 46,000 TL 104,330</p> <p>38,00x85,00</p>	AP	<p>91-09859-000</p> <p>1 3,500 Mo</p> <p>2 2,500 CR</p> <p>3 4,000 CR</p>		Ø 104,000	31-04850-000
<p>K=107,05 L=198,00</p>	DS			51-65408-000	
<p>K=107,17 L=197,00</p>	DS +0,20			51-65408-020	
<p>K=107,56 L=198,00</p>	DS +0,50			51-65408-050	
<p>K=108,07 L=198,00</p>	DS +1,00			51-65408-100	












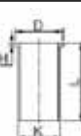
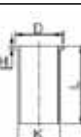
104,000	
8040.45D.5100 / 5101 / 5103 / 5105 Euro2	D 1994 2000 4 Cyl 3908cc 85kW (115ps)
8040.45D.5200 / 5201 / 5203 / 5205 / 5280 / 5281 Euro2	D 1994 4 Cyl 3908cc 100kW (136ps)
8060.45.5200-5205 / 5210 / 5211 / 5220-5223 / 5232-5235 / 5250 / 5251 / 5255	D 1995 6 Cyl 5863cc 152kW (207ps)
8060.45B.5100-5105 / 5110-5113 / 5120-5124 / 5145 / 5146 / 5150-5155 / 5160 / 5185 / 5186 Euro2	D 1991 2003 6 Cyl 5863cc 130kW (177ps)

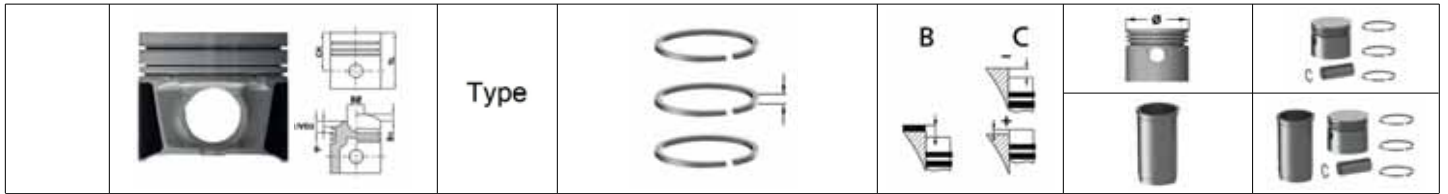
 11-02851-000 CH 65,330 B- 21,750 BØ 48,200 TL 104,330  38,00x85,00	AP	91-09859-000 1 3,500  Mo 2 2,500  CR 3 4,000  CR	+0,46/+0,79	Ø 104,000	31-04851-000
 K=106,97 L=198,00 H=5,05 D=109,85	DS			51-65409-000	
 K=107,07 L=198,00 H=5,05 D=110,05	DS +0,10			51-65409-010	
 K=107,17 L=198,00 H=5,05 D=110,05	DS +0,20			51-65409-020	
 K=107,50 L=198,00 H=6,00 D=110,35	DS +0,50			51-65409-050	
 K=108,00 L=198,00 H=6,00 D=110,35	DS +1,00			51-65409-100	
 K=108,50 L=198,00 H=6,00 D=111,00	DS +1,50			51-65409-150	



104,000

8040.45.400	D	1991	2001	4 Cyl	3908cc	100kW	(136ps)
8060.45.4100TCA	D			6 Cyl	5861cc	152kW	(207ps)
8060.45.600	D			6 Cyl	5861cc	151kW	(206ps)

 11-02856-000 CH 65,300 B- 22,100 BØ 54,500 TL 104,300  38,00x85,00	AP	91-09859-000 1 3,500  Mo 2 2,500  CR 3 4,000  CR			Ø 104,000	31-04856-000
 K=106,97 L=198,00 H=5,05 D=109,85	DS				51-65409-000	
 K=107,07 L=198,00 H=5,05 D=110,05	DS +0,10				51-65409-010	
 K=107,17 L=198,00 H=5,05 D=110,05	DS +0,20				51-65409-020	
 K=107,50 L=198,00 H=6,00 D=110,35	DS +0,50				51-65409-050	
 K=108,00 L=198,00 H=6,00 D=110,35	DS +1,00				51-65409-100	
 K=108,50 L=198,00 H=6,00 D=111,00	DS +1,50				51-65409-150	



104,000

8060.45.7200 Euro2	D	1995	6 Cyl	5858cc	167kW	(227ps)
8060.45S.7200-7203 / 7205 / 7210-7211 / 7213 / 7215 / 7250 / 7251 / 7255 Euro2	D	1991	2003	6 Cyl	5858cc	167kW (227ps)

<p>11-02865-000 CH 65,330 VD1 0,350 B- 20,550 BØ 54,000 TL 104,330</p> <p>38,00x85,00</p>	AP	<p>91-09859-000</p> <p>1 3,500 Mo</p> <p>2 2,500 CR</p> <p>3 4,000 CR</p>		Ø 104,000	31-04865-000
<p>K=106,97 L=198,00 H=5,05 D=109,85</p>	DS			51-65409-000	
<p>K=107,07 L=198,00 H=5,05 D=110,05</p>	DS +0,10			51-65409-010	
<p>K=107,17 L=198,00 H=5,05 D=110,05</p>	DS +0,20			51-65409-020	
<p>K=107,50 L=198,00 H=6,00 D=110,35</p>	DS +0,50			51-65409-050	
<p>K=108,00 L=198,00 H=6,00 D=110,35</p>	DS +1,00			51-65409-100	

110,000

C021	D	1969	4 Cyl	4562cc	66kW	(90ps)
C03 / C060 / C075	D	1968	4 Cyl	4562cc	66kW	(90ps)

<p>11-01345-000 CH 75,200 B- 27,500 BØ 51,100 TL 150,200</p> <p>40,00x93,00</p>	AP	<p>91-49412-000</p> <p>1 2,500 CrP</p> <p>2 2,500 P</p> <p>3 2,500 P</p> <p>4 5,000 CrP</p>		Ø 110,000	31-03345-000
<p>K=117,95 L=235,90 H+F=169,95+0,90 D=129,50</p>	WF-PH			51-05411-000	71-07345-000

	Type					
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110,000

CN3	D	3 Cyl	3706cc	48kW	(65ps)
CO3 / CO7	D	4 Cyl	4940cc	76-81kW	(103-110ps)
CP3	D 1968	6 Cyl	7412cc	114kW	(155ps)

	11-01410-000 CH 70,200 B- 28,000 BØ 54,800 TL 140,200 40,00x93,00		91-09412-000 1 2,500 CrP 2 2,500 P 3 2,500 P 4 5,000 CrP 5 5,000 P		Ø 110,000	31-03410-000
	K=117,95 L=235,90 H+F=169,95+0,90 D=129,50	WF-PH			51-05411-000	71-07410-000

110,000

CN3	D	3 Cyl	cc	kW	(ps)
CP3	D	6 Cyl	7412cc	107kW	(145ps)

	11-01411-000 CH 70,200 B- 28,000 BØ 54,800 TL 140,200 40,00x93,00		91-49412-000 1 2,500 CrP 2 2,500 P 3 2,500 P 4 5,000 CrP		Ø 110,000	31-03411-000
	K=117,95 L=235,90 H+F=169,95+0,90 D=129,50	WF-PH			51-05411-000	71-07411-000

110,000

C021	D 1969	4 Cyl			
C03 / C060 / C075	D 1968	4 Cyl			

	11-01412-000 CH 75,200 B- 27,500 BØ 51,100 TL 150,200 40,00x93,00		91-49412-000 1 2,500 CrP 2 2,500 P 3 2,500 P 4 5,000 CrP		Ø 110,000	31-03412-000
	K=117,95 L=235,90 H+F=169,95+0,90 D=129,50	WF-PH			51-05411-000	71-07412-000

		Type				
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110,000

CO3 / 20 / 21 / 40 / 41 / 75 D 1968 4 Cyl 4562cc 66kW (90ps)

	11-01414-000 CH 75,200 B- 27,500 BØ 51,100 TL 150,200 40,00x93,00		91-09412-000 1 2,500 CrP 2 2,500 P 3 2,500 P 4 5,000 CrP 5 5,000 P		Ø 110,000	31-03414-000
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	K=117,95 L=235,90 H+F=169,95+0,90 D=129,50	WF-PH			51-05411-000	71-07414-000
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112,000

8360.46	D 1991 2000	6 Cyl	7684cc	196kW	(267ps)
8360.46B.4591	D 1996	6 Cyl	7684cc	162-196kW	(220-267ps)
8360.46R	D 1992	6 Cyl	7684cc	175kW	(238ps)
8360.46V.4591 / 4691	D 1996	6 Cyl	7684cc	196kW	(267ps)

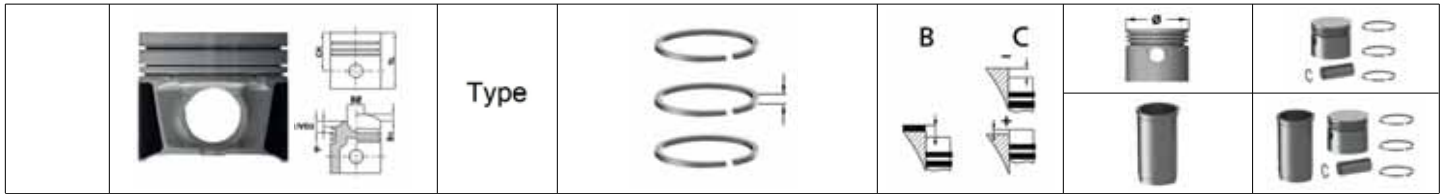
	11-02843-000 CH 76,500 VD1 1,500 B- 26,300 BØ 52,000 TL 126,500 42,00x93,00	AP YS	91-09865-000 1 3,500 CK 2 2,500 CR 3 4,000 CR		Ø 112,000	31-04843-000
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	K=120,49 L=232,00 H=87,00 D=129,00	WF-CR			51-05755-000	71-07344-000
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112,000

8360.46	D 1991	6 Cyl	7685cc	196kW	(226ps)
8360.46R.416	D	6 Cyl	7685cc	176kW	(240ps)

	11-02874-000 CH 76,500 VD1 1,500 B- 25,000 BØ 52,000 TL 126,500 42,00x93,00	AP YS	91-09865-000 1 3,500 CK 2 2,500 CR 3 4,000 CR		Ø 112,000	31-04874-000
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115,000

83.6.25.000 D 1980 6 Cyl 8102cc 120-133kW (163-180ps)

<p>11-01346-000 CH 76,500 B- 29,000 BØ 52,000 TL 140,500</p> <p>42,00x97,00</p>	AP	<p>91-09346-000</p> <p>1 3,000 Cr</p> <p>2 2,500 CrP</p> <p>3 4,000 CR</p>		Ø 115,000	31-03346-000

<p>K=121,95 L=235,00 H=166,92 D=129,80</p>	WF-PH			51-05415-000	71-07346-000
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115,000

8340.04.000 / 040 / 200 / 250 / 300 / 350 / 362 D 1977 1988 4 Cyl 4570cc 66-74kW (90-101ps)

8340.06.000	D 1977 1987	4 Cyl	4570cc	74kW	(100ps)
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115,000

8360.04.200 / 300 D 1978 6 Cyl 6855cc 106kW (145ps)

<p>11-01413-000 CH 76,500 B- 27,000 BØ 52,000 TL 140,500</p> <p>42,00x97,00</p>	AP	<p>91-09413-000</p> <p>1 2,500 CrP</p> <p>2 2,500 P</p> <p>3 4,000 CrP</p>		Ø 115,000	31-03413-000

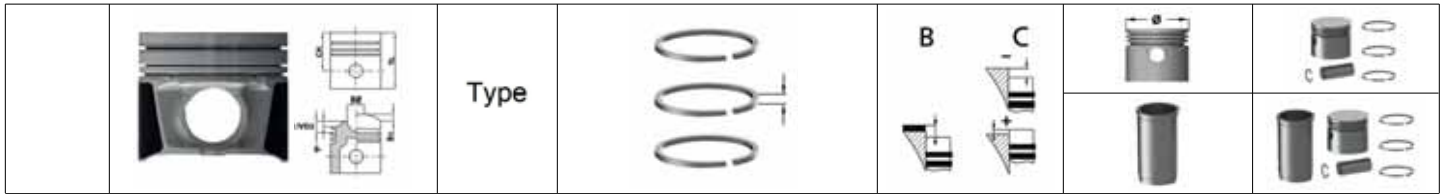
<p>K=121,95 L=215,00 H=146,97 D=129,80</p>	WF			51-05413-000	71-07413-000
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115,000

F2BE0681E Euro2 D 6 Cyl 7790cc 180kW (245ps)

<p>11-02840-000 CH 72,100 B- 21,500 BØ 60,000 TL 117,100</p> <p>46,00x95,50</p>	AP YS	<p>91-09840-000</p> <p>1 3,000 CrP</p> <p>2 2,500 CrP</p> <p>3 4,000 CrP</p>		Ø 115,000	31-04840-000

<p>K=128,50 L=211,00 H+F=9,00+1,20 D=136,50</p>	WF			51-05273-000	71-08840-000
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115,000						
F2BE0681A Euro3	D	1998	6 Cyl	7790cc	259kW	(352ps)
F2BE0681B / F Euro3	D	1998	6 Cyl	7790cc	228kW	(310ps)
F2BE0681C Euro3	D	1998	6 Cyl	7790cc	200kW	(272ps)
F2BE0681CA / D / DA / DB Euro3	D	1998	6 Cyl	7790cc	180kW	(245ps)

<p>11-02841-000 CH 72,100 B- 19,300 BØ 61,700 TL 117,100</p> <p>46,00x95,50</p>	AP YS	<p>91-09840-000</p> <p>1 3,000 CrP</p> <p>2 2,500 CrP</p> <p>3 4,000 CrP</p>		Ø 115,000	31-04841-000
<p>K=128,50 L=211,00 H+F=9,00+1,20 D=136,50</p>	WF			51-05273-000	71-08841-000

115,000						
F2BE3681 / F2BE3682 Euro4-5	D	2006	6 Cyl	7790cc	kW	(ps)

<p>11-02844-000 CH 72,100 B- 19,300 BØ 61,700 TL 117,100</p> <p>46,00x95,50</p>	AP YS	<p>91-09844-000</p> <p>1 2,000 CrP</p> <p>2 1,500 P</p> <p>3 4,000 CR</p>		Ø 115,000	31-04844-000

115,000						
8361.25.510 / 511 Euro2	D	1984	6 Cyl	8101cc	154-173kW	(210-235ps)
8361.45.500	D	1969	6 Cyl	8101cc	169kW	(230ps)
8361.45.530	D	1985 1989	6 Cyl	8101cc	243kW	(330ps)
8365.25.500-503 / 512-515 / 520 / 522 / 530 / 532-533	D	1980	6 Cyl	8101cc	113-147kW	(116-200ps)

<p>11-02867-000 CH 76,500 VD1 1,000 B- 27,700 BØ 59,000 TL 140,500</p> <p>42,00x97,00</p>	AP	<p>91-09861-000</p> <p>1 3,000 CR</p> <p>2 2,500 CrP</p> <p>3 4,000 CR</p>		Ø 115,000	31-04867-000
<p>K=121,95 L=235,00 H=166,92 D=129,80</p>	WF-PH			51-05415-000	71-08868-000

		Type					
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115,000

8210.42 / 42K	D	4 Cyl	5401cc	272kW	(370ps)
8210.42.	D	4 Cyl	5401cc	277kW	(377ps)
8210.42L / L(TCA)	D	4 Cyl	5401cc	309kW	(420ps)

	11-02935-000 CH 70,500 B- 29,400 BØ 54,000 TL 140,500		91-09935-000 1 2,500 CrP 2 2,500 P 3 5,000 CrP		Ø 115,000	31-04935-000
	40,00x99,00					
	K=121,95 L=235,00 H=166,92 D=129,80	WF-PH			51-05415-000	71-08928-000

117,000


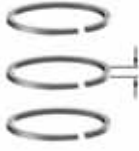






F2CFE613A	D	4 Cyl	cc	kW	(ps)
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	11-01028-000 CH 80,200 B- 20,800 BØ 65,600 TL 125,500	AP YS	91-09408-000 1 3,000 CkP 2 2,500 P 3 4,000 CR		Ø 117,000	31-03028-000
	52,00x93,00					
	K=129,50 L=226,15 H+F=8,95+1,00 D=137,50	WF			51-05759-000	71-07342-000

117,000

F2CE9687	D	4 Cyl			
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	11-01029-000 CH 80,000 B- 20,500 BØ 65,600 TL 125,500	AP YS	91-09408-000 1 3,000 CkP 2 2,500 P 3 4,000 CR		Ø 117,000	31-03029-000
	52,00x93,00					
	K=129,50 L=226,15 H+F=8,95+1,00 D=137,50	WF			51-05759-000	71-07343-000

	Type		 		
					

120,000

8460.21B.613 / 615






D

6 Cyl

8460.41S.733 / 735 / 739

D 1993

6 Cyl

	11-02833-000 CH 84,700 VD1 3,100 B- 27,050 BØ 60,000 TL 134,700	AP YS HA PDB	91-09853-000 1 3,500  CR 2 3,000  CR 3 5,000  CR		Ø 120,000	31-04833-000
	48,00x96,00					

	K=134,00 L=249,25 H+F=10,00+1,00 D=144,80	WF-PH			51-05444-000	71-08833-000
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120,000






2862 nin burçsuz olan versiyonu / piston version 2862 without pin boss bushing

Cyl

cc

kW

(ps)

	11-02852-000 CH 84,700 VD1 3,180 B- 27,400 BØ 60,000 TL 134,700	AP YS	91-09853-000 1 3,500  CR 2 3,000  CR 3 5,000  CR		Ø 120,000	31-04852-000
	48,00x96,00					

	K=134,00 L=249,25 H+F=10,00+1,00 D=144,80	WF-PH			51-05444-000	71-08852-000
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120,000

8460.41E / K / R / T

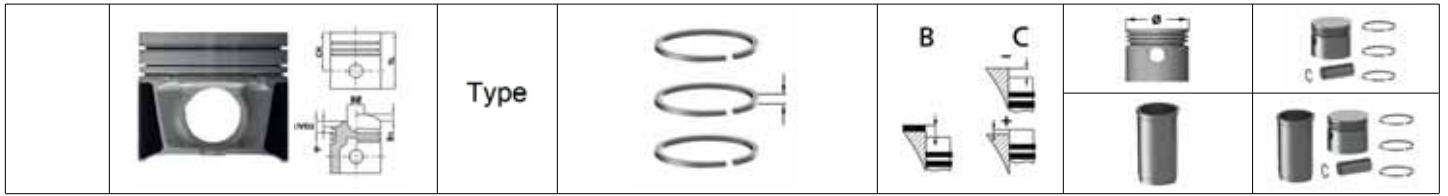
D

8460.41SRI

D

	11-02862-000 CH 84,700 VD1 3,180 B- 27,400 BØ 60,000 TL 134,700	AP YS PDB	91-09853-000 1 3,500  CR 2 3,000  CR 3 5,000  CR		Ø 120,000	31-04862-000
	48,00x96,00					

	K=134,00 L=249,25 H+F=10,00+1,00 D=144,80	WF-PH			51-05444-000	71-08862-000
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120,000						
8460.21.002 / 004		D	1986	6 Cyl	9498cc	176kW (239ps)
8460.21.102		D	1986	1994	6 Cyl	9498cc 192kW (261ps)
8460.21.406		D	1989	6 Cyl	9498cc	191kW (260ps)
8465.21.002		D	1987	6 Cyl	9498cc	186kW (253ps)

<p>11-02866-000 CH 84,700 VD1 3,100 B- 22,600 BØ 71,800 TL 134,700</p> <p>48,00x108,00</p>	<p>AP YS HA</p>	<p>91-09853-000 1 3,500 CR 2 3,000 CR 3 5,000 CR</p>		<p>Ø 120,000</p>	<p>31-04866-000</p>

122,000						
8200.02.00		D	1969	6 Cyl	9880cc	147kW (200ps)
8200.12.004		D	1969	6 Cyl	9880cc	141-147kW (192-200ps)
8205.02		D	1973	1983	6 Cyl	9880cc 115kW (156ps)

<p>11-01417-000 CH 80,200 B- 28,000 BØ 65,600 TL 150,000</p> <p>42,00x104,50</p>	<p>AP</p>	<p>91-09417-000 1 3,500 CR 2 3,000 P 3 3,000 P 4 5,500 CR</p>		<p>Ø 122,000</p>	<p>31-03417-000</p>

		Type					
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125,000

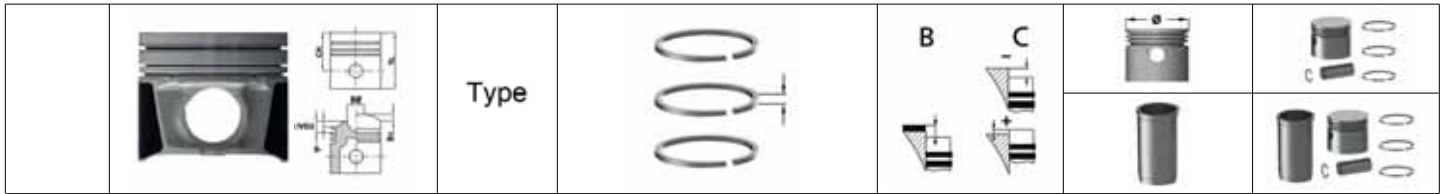
F3 AE 0681 B Euro 3	D	2000	6 Cyl	10303cc	294kW	(400ps)
F3 AE 0681 D Euro 3	D	1999	6 Cyl	10303cc	316kW	(430ps)
F3 AE 0681 E Euro 3	D	1999	6 Cyl	10303cc	287kW	(390ps)

	11-02845-000 CH 85,500 B- 21,200 BØ 88,000 TL 133,500 50,00x101,00	AP YS	91-09845-000 1 3,500 CrP 2 3,000 P 3 4,000 CrP	+0,28/+0,52	Ø 125,000	31-04845-000
	K=140,00 L=239,00 H+F=9,96+1,20 D=150,60	WF		O-Ring/Seal 55-50908-000 2 FPM 132,94x3,53 1 FPM 132,94x3,53	51-05281-000 52-05281-000	71-08845-000 72-08845-000
	K=140,00 L=239,00 H+F=9,96+1,20 D=150,60	WF-PH		O-Ring/Seal 55-50908-000 2 FPM 132,94x3,53 1 FPM 132,94x3,53	51-05283-000 52-05283-000	71-08844-000 72-08844-000

125,000

F3 AE 3681 A / B / D Euro 5	D	2006	6 Cyl	10308cc	331kW	(450ps)
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	11-02864-000 CH 85,500 B- 21,200 BØ 67,200 TL 133,500 50,00x101,00	AP YS PDB	91-09864-000 1 2,500 CkP 2 3,000 P 3 4,000 CR	+0,28/+0,52	Ø 125,000	31-04864-000
	K=140,00 L=239,00 H+F=9,96+1,20 D=150,60	WF		O-Ring/Seal 55-50908-000 2 FPM 132,94x3,53 1 FPM 132,94x3,53	51-05281-000 52-05281-000	71-08869-000 72-08869-000
	K=140,00 L=239,00 H+F=9,96+1,20 D=150,60	WF-PH		O-Ring/Seal 55-50908-000 2 FPM 132,94x3,53 1 FPM 132,94x3,53	51-05283-000 52-05283-000	71-08870-000 72-08870-000



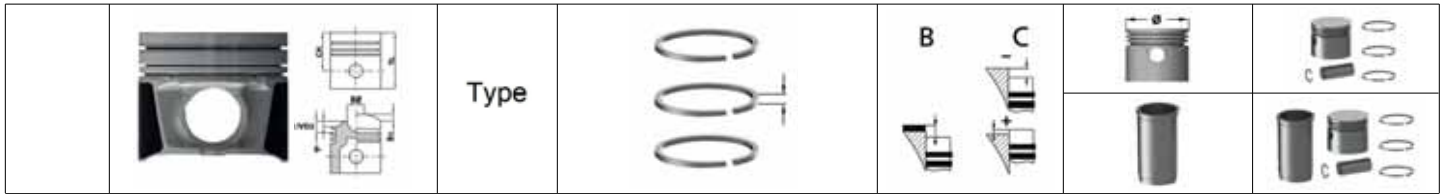
135,000							
F3 BE 0681 A Euro 3		D	2002	6 Cyl	12880cc	397kW	(540ps)
F3 BE 0681 B / E Euro 3		D	2001	6 Cyl	12880cc	353kW	(480ps)
F3 BE 0681 C / CB Euro 3		D	2000	6 Cyl	12880cc	324kW	(441ps)
F3 BE 0681 F Euro 3		D	2001	6 Cyl	12880cc	337kW	(460ps)
F3 BE 0681 G Euro 3		D	2001	6 Cyl	12880cc	280kW	(381ps)

	11-02846-000 CH 90,400 B- 23,100 BØ 94,000 TL 142,400	AP YS	91-09846-000 1 4,000 CK 2 3,000 CR 3 5,000 CR	Ø 135,000	31-04846-000

K=151,90 L=255,00 H+F=10,00+1,20 D=161,00	WF	O-Ring/Seal 55-50916-000 3 FPM 145,60x3,53	51-05275-000 52-05275-000	71-08849-000 72-08849-000
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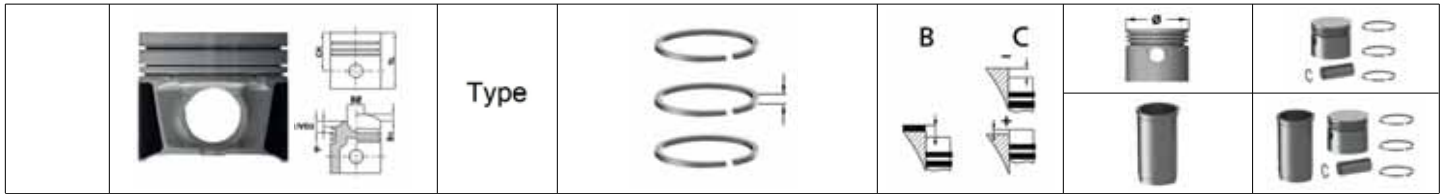
135,000							
F3 BE 3681 D Euro4		D	2006	6 Cyl	12882cc	302kW	(410ps)

	11-02868-000 CH 90,400 B- 23,100 BØ 94,000 TL 142,400	AP YS PDB	91-09847-000 1 3,000 CkP 2 3,000 CR 3 5,000 CR	Ø 135,000	31-04868-000



137,000						
8210.02.000 / 221A	D	6 Cyl	16797cc	162-191kW	(220-260ps)	
8210.12.0	D	6 Cyl	16797cc	162-191kW	(220-260ps)	
8215.02	D	6 Cyl	16797cc	162-191kW	(220-260ps)	

<p>11-01418-000 CH 92,000 B- 32,400 BØ 67,000 TL 167,000</p> <p> 48,00x117,00</p>	AP	<p>91-09418-000</p> <p>1 4,000 Mo 2 3,000 CR 3 3,000 CR 4 5,500 CR</p>	-0,27/+0,22	Ø 137,000	31-03418-000
<p>K=143,00 L=282,00 H=6,05 D=147,00</p>	DF-PH			51-35418-000	71-07418-000
<p>K=143,02 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,02			51-35418-002	
<p>K=143,05 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,05			51-35418-005	
<p>K=143,25 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,25			51-35418-025	
<p>K=143,50 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,50			51-35418-050	
<p>K=143,00 L=282,00 H=6,05 D=149,00</p>	DF			51-35447-000	71-07419-000
<p>K=143,05 L=282,00 H=6,05 D=149,00</p>	DF +0,05			51-35447-005	
<p>K=143,25 L=282,00 H=6,05 D=149,00</p>	DF +0,25			51-35447-025	
<p>K=143,50 L=282,00 H=6,05 D=149,00</p>	DF +0,50			51-35447-050	


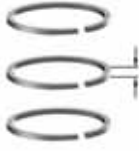
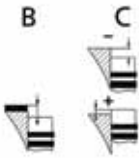



137,000

8210.42L	D	1994	2002	6 Cyl	13798cc	309kW	(420ps)
8210.42L(TCA)	D	1999	2004	6 Cyl	13798cc	309kW	(420ps)
8210.42L(TCA), 8210.42L.	D	1993	2004	6 Cyl	13798cc	309kW	(420ps)
8210.42L.	D	1993	2004	6 Cyl	13798cc	309kW	(420ps)
8210.42L., 8210.42L(TCA)	D	1993	2002	6 Cyl	13798cc	309kW	(420ps)
8210.42L.400	D	1993	2002	6 Cyl	13798cc	309kW	(420ps)
8210.42L.400, 8210.42L(TCA)	D	1992		6 Cyl	13798cc	309kW	(420ps)

<p>11-02825-000 CH 92,000 B- 21,000 BØ 83,800 TL 157,000</p> <p>50,00x115,00</p>	AP	<p>91-09854-000 1 4,000 CR 2 3,000 CR 3 5,500 CR</p>	Ø 137,000	31-04825-000
	YS HA PDB			
Astra ve Iveco ile Ortak Motor				

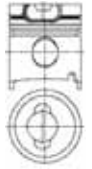





<p>K=143,00 L=282,00 H=6,05 D=147,00</p>	DF-PH		51-35418-000	71-07421-000
<p>K=143,02 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,02		51-35418-002	
<p>K=143,05 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,05		51-35418-005	
<p>K=143,25 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,25		51-35418-025	
<p>K=143,50 L=282,00 H=6,05 D=147,00</p>	DF-PH +0,50		51-35418-050	
<p>K=143,00 L=282,00 H=6,05 D=149,00</p>	DF		51-35447-000	71-07422-000
<p>K=143,05 L=282,00 H=6,05 D=149,00</p>	DF +0,05		51-35447-005	

	Type			
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	K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25			51-35447-025
	K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50			51-35447-050

137,000

8210.22.510 / 559 / 859 / 869	D	6 Cyl	13798cc	221kW	(300ps)
8210.22.559 / 859 / 869	D 1987	1989	6 Cyl	13798cc	235kW (320ps)

	11-02853-000 CH 92,000 B- 32,500 BØ 57,000 TL 162,000	AP YS HA	91-09418-000 1 4,000  Mo 2 3,000  CR 3 3,000  CR 4 5,500  CR		Ø 137,000	31-04853-000
	50,00x117,00					

	K=143,00 L=282,00 H=6,05 D=147,00	DF-PH			51-35418-000	71-08853-000
	K=143,02 L=282,00 H=6,05 D=147,00	DF-PH +0,02			51-35418-002	
	K=143,05 L=282,00 H=6,05 D=147,00	DF-PH +0,05			51-35418-005	
	K=143,25 L=282,00 H=6,05 D=147,00	DF-PH +0,25			51-35418-025	
	K=143,50 L=282,00 H=6,05 D=147,00	DF-PH +0,50			51-35418-050	
	K=143,00 L=282,00 H=6,05 D=149,00	DF			51-35447-000	71-08865-000
	K=143,05 L=282,00 H=6,05 D=149,00	DF +0,05			51-35447-005	

		Type					
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	K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25				51-35447-025	
	K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50				51-35447-050	

137,000
8210.42 K D 1990 6 Cyl 13798cc 272kW (370ps)

	11-02854-000 CH 92,000 B- 21,000 BØ 83,000 TL 157,000	AP YS HA	91-09854-000 1 4,000 CR 2 3,000 CR 3 5,500 CR	-0,27/+0,22	Ø 137,000	31-04854-000	
	K=143,00 L=282,00 H=6,05 D=147,00	DF-PH				51-35418-000	71-08854-000
	K=143,02 L=282,00 H=6,05 D=147,00	DF-PH +0,02				51-35418-002	
	K=143,05 L=282,00 H=6,05 D=147,00	DF-PH +0,05				51-35418-005	
	K=143,25 L=282,00 H=6,05 D=147,00	DF-PH +0,25				51-35418-025	
	K=143,50 L=282,00 H=6,05 D=147,00	DF-PH +0,50				51-35418-050	
	K=143,00 L=282,00 H=6,05 D=149,00	DF				51-35447-000	71-08857-000
	K=143,05 L=282,00 H=6,05 D=149,00	DF +0,05				51-35447-005	

		Type					
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	K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25				51-35447-025	
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	K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50				51-35447-050	
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137,000

8210.42.009 / 011 / 101 / 115 D 1987 6 Cyl 13798cc 265kW (360ps)

	11-02858-000 CH 92,000 B- 33,000 BØ 72,000 TL 157,000	AP YS	91-09854-000 1 4,000 CR 2 3,000 CR 3 5,500 CR	-0,27/+0,20	Ø 137,000	31-04858-000
	50,00x117,00					

	K=143,00 L=282,00 H=6,05 D=147,00	DF-PH				51-35418-000	71-08858-000
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	K=143,02 L=282,00 H=6,05 D=147,00	DF-PH +0,02				51-35418-002	
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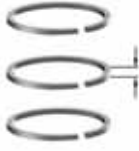
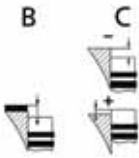

	K=143,05 L=282,00 H=6,05 D=147,00	DF-PH +0,05				51-35418-005	
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	K=143,25 L=282,00 H=6,05 D=147,00	DF-PH +0,25				51-35418-025	
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	K=143,50 L=282,00 H=6,05 D=147,00	DF-PH +0,50				51-35418-050	
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	K=143,00 L=282,00 H=6,05 D=149,00	DF				51-35447-000	71-08863-000
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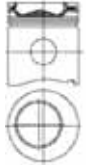




	K=143,05 L=282,00 H=6,05 D=149,00	DF +0,05				51-35447-005	
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	Type			
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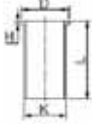
	K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25			51-35447-025
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	K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50			51-35447-050
--	--	-------------	--	--	--------------

137,000
8210.42 K D 1990 6 Cyl 13798cc 272kW (370ps)

	11-02859-000 CH 92,000 B- 21,000 BØ 83,000 TL 157,000	AP YS	91-09854-000 1 4,000  CR 2 3,000  CR 3 5,500  CR		Ø 137,000	31-04859-000
	50,00x115,00					

	K=143,00 L=282,00 H=6,05 D=147,00	DF-PH			51-35418-000	71-08859-000
--	--	-------	--	--	--------------	--------------

	K=143,02 L=282,00 H=6,05 D=147,00	DF-PH +0,02			51-35418-002	
--	--	----------------	--	--	--------------	--

	K=143,05 L=282,00 H=6,05 D=147,00	DF-PH +0,05			51-35418-005	
--	--	----------------	--	--	--------------	--

	K=143,25 L=282,00 H=6,05 D=147,00	DF-PH +0,25			51-35418-025	
--	--	----------------	--	--	--------------	--

	K=143,50 L=282,00 H=6,05 D=147,00	DF-PH +0,50			51-35418-050	
--	--	----------------	--	--	--------------	--

	K=143,00 L=282,00 H=6,05 D=149,00	DF			51-35447-000	
--	--	----	--	--	--------------	--

	K=143,05 L=282,00 H=6,05 D=149,00	DF +0,05			51-35447-005	
--	--	-------------	--	--	--------------	--

	Type			
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	K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25			51-35447-025
--	--	-------------	--	--	--------------

	K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50			51-35447-050
--	--	-------------	--	--	--------------

137,000

8210,42 D 6 Cyl 13798cc kW (ps)

	11-02860-000 CH 92,000 B- 25,500 BØ 72,000 TL 157,000	AP YS	91-09854-000 1 4,000 CR 2 3,000 CR 3 5,500 CR		Ø 137,000	31-04860-000
	50,00x115,00					

	K=143,00 L=282,00 H=6,05 D=147,00	DF-PH			51-35418-000	71-08867-000
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	K=143,02 L=282,00 H=6,05 D=147,00	DF-PH +0,02			51-35418-002	
--	--	----------------	--	--	--------------	--


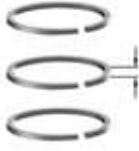
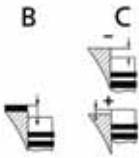

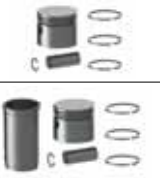
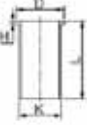
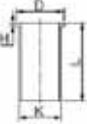
	K=143,05 L=282,00 H=6,05 D=147,00	DF-PH +0,05			51-35418-005	
--	--	----------------	--	--	--------------	--

	K=143,25 L=282,00 H=6,05 D=147,00	DF-PH +0,25			51-35418-025	
--	--	----------------	--	--	--------------	--

	K=143,50 L=282,00 H=6,05 D=147,00	DF-PH +0,50			51-35418-050	
--	--	----------------	--	--	--------------	--






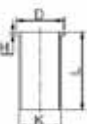

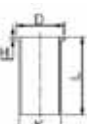
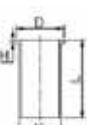

	K=143,00 L=282,00 H=6,05 D=149,00	DF			51-35447-000	71-08855-000
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	K=143,05 L=282,00 H=6,05 D=149,00	DF +0,05			51-35447-005	
--	--	-------------	--	--	--------------	--

	Type				
	K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25			51-35447-025
	K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50			51-35447-050


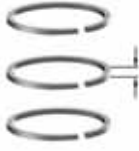
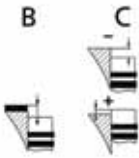

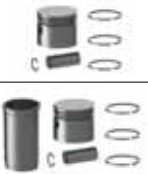
137,000

8210.22.000 / 069 / 101 / 175 / 183 / 235 / 236 / 269 / 317 / 327 / 371 / 373 / 385	D	1980	6 Cyl	13798cc
8210.22.105	D	1984	1987	6 Cyl 13798cc
8210.22.406 / 409 / 419 / 631	D	1983	6 Cyl	13798cc
8215.22.520	D	1979	1991	6 Cyl 13798cc
8215.22.531	D	1979	1991	6 Cyl 13798cc
8215.22.542	D	1982	1990	6 Cyl 13798cc

	11-02932-000 CH 92,000 B- 33,000 BØ 72,000 TL 162,000	AP YS	91-09932-000 1 4,000  CrP 2 3,000  CrP 3 3,000  P 4 5,500  CrP	-0,275/+0,225	Ø 137,000	31-04932-000
	K=143,00 L=282,00 H=6,05 D=147,00	DF-PH			51-35418-000	71-08932-000
	K=143,02 L=282,00 H=6,05 D=147,00	DF-PH +0,02			51-35418-002	
	K=143,05 L=282,00 H=6,05 D=147,00	DF-PH +0,05			51-35418-005	
	K=143,25 L=282,00 H=6,05 D=147,00	DF-PH +0,25			51-35418-025	
	K=143,50 L=282,00 H=6,05 D=147,00	DF-PH +0,50			51-35418-050	

 50,00x117,00

		Type				
	K=143,00 L=282,00 H=6,05 D=149,00	DF			51-35447-000	71-08933-000
	K=143,05 L=282,00 H=6,05 D=149,00	DF +0,05			51-35447-005	
	K=143,25 L=282,00 H=6,05 D=149,00	DF +0,25			51-35447-025	
	K=143,50 L=282,00 H=6,05 D=149,00	DF +0,50			51-35447-050	

	Type				
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97,000

OM 352.900 / 913 / 916 / 918 / 937 / 946 / 950 / 968 / 988 / 994





D 1986


6 Cyl

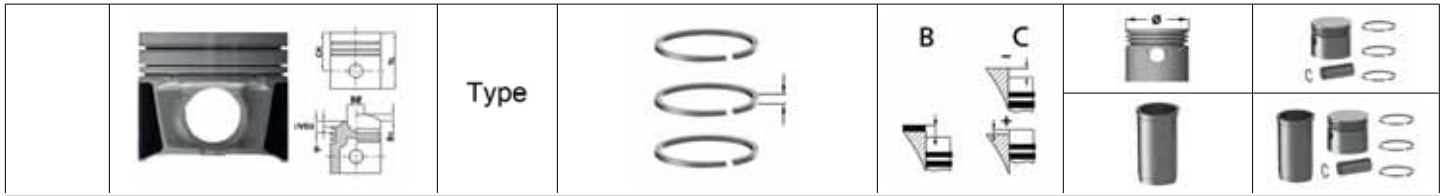
5675cc

99-124kW

(135-168ps)

	<p>11-01622-000 CH 65,200 *CH 64,800 VD1 2,200 *VD1 2,200 B- 20,000 *B- 20,000 BØ 55,000 *BØ 55,000 TL 105,200 *TL 104,800</p> <p>* For Oversize Piston Dimensions 36,00x82,50</p>	AP	<p>91-09622-000 1 2,500  Mo 2 2,500  CR 3 4,000  CR</p>	-0,07/+0,30	Ø 97,000 Ø 97,500 Ø 98,000	31-03622-000 31-03622-050 31-03622-100
Ford ve Mercedes-Benz ile Ortak Motor						

	K=100,40 L=222,00 H=5,20 D=103,50	DS			51-65635-000	
	K=101,05 L=222,00 H=6,00 D=103,92	DS +0,50			51-65635-050	
	K=101,50 L=222,00 H=6,00 D=104,42	DS +1,00			51-65635-100	
	K=102,50 L=222,00 H=6,00 D=105,42	DS +2,00			51-65635-200	
	K=101,00 L=222,00 H=5,50 D=103,50	DS			51-65735-000	
	K=101,50 L=222,00 H=5,50 D=104,00	DS +0,50			51-65735-050	



97,000

OM 352.937 D 1986 6 Cyl 5675cc 110kW (150ps)

<p>11-02912-000 CH 65,200 VD1 2,400 B- 20,000 BØ 55,000 TL 115,700</p> <p>36,00x82,50</p>	AP	<p>91-09912-000</p> <p>1 3,000 CR 2 3,000 P 3 3,000 P 4 5,500 CrP 5 5,500 P</p>	-0,07/+0,30	<p>Ø 97,000 Ø 97,500 Ø 98,000</p>	<p>31-04912-000 31-04912-050 31-04912-100</p>

Ford ve Mercedes-Benz ile Ortak Motor

<p>K=101,00 L=222,00 H=5,50 D=103,50</p>	DS			51-65735-000	
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<p>K=101,50 L=222,00 H=5,50 D=104,00</p>	DS +0,50			51-65735-050	
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104,770

6D D 6 Cyl 5945cc 81kW (110ps)


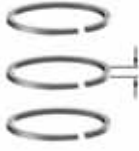
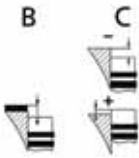

<p>11-01428-000 CH 71,250 VD1 2,600 B- 23,000 BØ 57,500 TL 119,900</p> <p>34,93x90,00</p>	AP	<p>91-09428-000</p> <p>1 2,385 CrP 2 2,385 CrP 3 2,385 P 4 4,747 CrP</p>	-0,150/+0,40	<p>Ø 104,770 Ø 105,155 Ø 105,665</p>	<p>31-03428-000 31-03428-015 31-03428-035</p>
	CP				

<p>K=108,87 L=218,80</p>	DS			51-65427-000	
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<p>K=108,95 L=218,50 H=7,00 D=109,95</p>	DS			51-65428-000	
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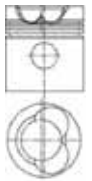




<p>K=109,50 L=218,50 H=7,00 D=110,50</p>	DS +0,50			51-65428-050	
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<p>K=110,00 L=218,50 H=7,00 D=111,00</p>	DS +1,00			51-65428-100	
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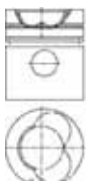




	Type			
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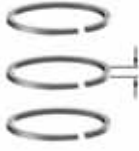
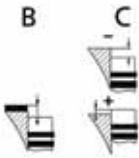

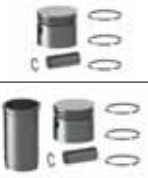
	K=110,50 L=218,50 H=7,00 D=111,50	DS +1,50			51-65428-150
	K=111,00 L=218,50 H=7,00 D=112,00	DS +2,00			51-65428-200

104,770

363DOVERII		D		6 Cyl	5950cc	kW	(ps)
	11-01429-000 CH 71,250 VD1 2,300 B- 23,000 BØ 57,500 TL 119,900	AP CP	91-39428-000 1 2,385  CrP 2 2,385  CrP 3 4,747  CrP	+0,380/+0,152	Ø 104,770 Ø 105,155 Ø 105,665	31-03429-000 31-03429-015 31-03429-035	
 36,51x86,20							







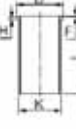
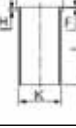
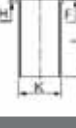
104,770

6D		D		6 Cyl	5946cc		
	11-01450-000 CH 71,250 VD1 2,600 B- 23,000 BØ 57,300 TL 119,900	AP CP	91-39428-000 1 2,385  CrP 2 2,385  CrP 3 4,747  CrP	-0,150/+0,40	Ø 104,770 Ø 105,155 Ø 105,665	31-03450-000 31-03450-015 31-03450-035	
 34,93x90,00							

	Type				
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104,770

DOVER6.0TCI TurboIntercooled D 1992 6 Cyl 5946cc kW (185ps)

	11-02236-000 CH 71,250 VD1 2,300 B- 21,500 BØ 55,000 TL 119,900	AP HA	91-09236-000 1 3,000  MoP 2 2,500  P 3 4,000  P	+0,30/+0,40	Ø 104,770	31-04236-000
	41,00x87,12					
	K=109,07 L=218,50 H+F=4,75+0,70 D=112,75	DS			51-65429-000	
	K=109,25 L=218,50 H+F=4,75+0,70 D=112,75	DS +0,25			51-65429-025	
	K=109,53 L=218,50 H+F=5,05+0,70 D=113,00	DS +0,50			51-65429-050	
	K=110,07 L=218,50 H+F=6,00+0,70 D=113,75	DS +1,00			51-65429-100	






104,770


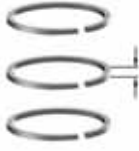
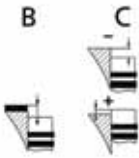





Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston Cyl cc (ps)

	11-02236-001 CH 71,050 VD1 2,300 B- 21,500 BØ 55,000 TL 119,700	AP HA	91-09236-000 1 3,000  MoP 2 2,500  P 3 4,000  P		Ø 104,770	31-04236-001
	41,00x87,12	CH -0,20 mm				

104,770







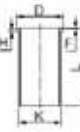

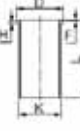
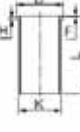
Strok Boyu 0,40mm Kisa Piston / Stroke Length 0,40mm Shorter Piston

	11-02236-002 CH 70,850 VD1 2,300 B- 21,500 BØ 55,000 TL 119,500	AP HA	91-09236-000 1 3,000  MoP 2 2,500  P 3 4,000  P		Ø 104,770	31-04236-002
	41,00x87,12	CH -0,40 mm				

	Type				
					

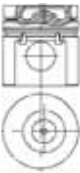





104,770

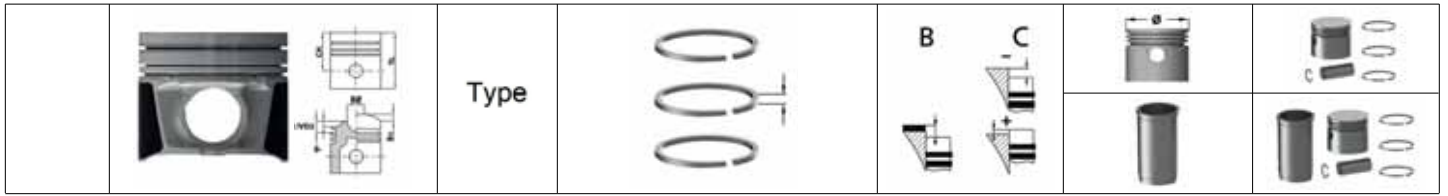
150 / 6CA-Dover	D	1981	1996
2726T	D	1981	
360TCTornado	D	1981	

	11-02237-000 CH 71,250 VD1 2,300 B- 22,000 BØ 60,250 TL 119,900	AP	91-09237-000 1 3,100  MoP 2 2,385  P 3 2,385  P 4 4,750  P	+0,152/+0,380	Ø 104,770	31-04237-000
	41,00x87,12					
	K=109,07 L=218,50 H+F=4,75+0,70 D=112,75	DS			51-65429-000	
	K=109,25 L=218,50 H+F=4,75+0,70 D=112,75	DS +0,25			51-65429-025	
	K=109,53 L=218,50 H+F=5,05+0,70 D=113,00	DS +0,50			51-65429-050	
	K=110,07 L=218,50 H+F=6,00+0,70 D=113,75	DS +1,00			51-65429-100	

104,770









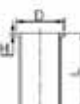
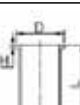
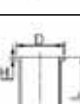
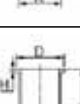
DOVER6.0TCI	D	1981	1996	6 Cyl	5946cc	kW	(ps)
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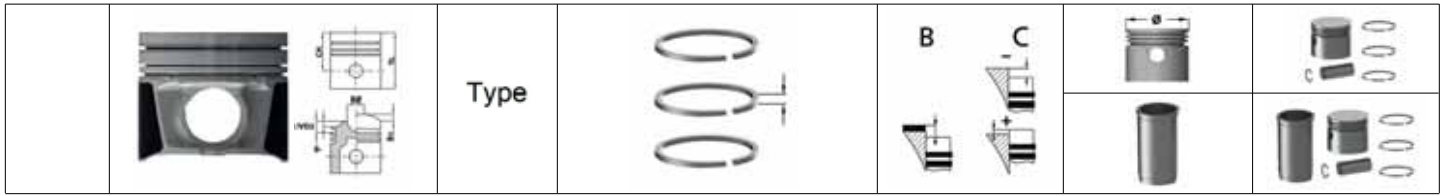
	11-02239-000 CH 71,230 B- 20,300 BØ 55,900 TL 112,880	AP	91-09239-000 1 3,000  CrP 2 2,500  P 3 4,000  CR	+0,25/+0,40	Ø 104,770	31-04239-000
	41,00x87,12					
	K=109,08 L=218,50 H=5,00 D=113,00	DS			51-65499-000	



104,775






2701E,2706E DORSET	D	1965	1969	4 Cyl	2400cc
2704E,2709E DORSET	D	1965	1969	6 Cyl	3600cc

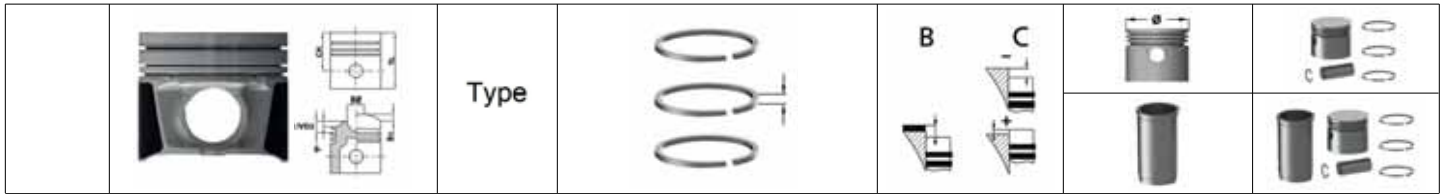
 <p>11-01430-000 CH 71,000 VD1 1,800 B- 25,800 BØ 51,500 TL 118,000</p>  <p>34,93x90,00</p>		<p>91-09428-000</p> <p>1 2,385  CrP</p> <p>2 2,385  CrP</p> <p>3 2,385  P</p> <p>4 4,747  CrP</p>	+0,15/+0,40	<p>Ø 104,775</p> <p>Ø 105,275</p> <p>Ø 105,525</p> <p>Ø 105,775</p>	<p>31-03430-000</p> <p>31-03430-020</p> <p>31-03430-030</p> <p>31-03430-040</p>
 <p>K=108,87 L=218,80</p>	DS			51-65427-000	
 <p>K=108,95 L=218,50 H=7,00 D=109,95</p>	DS			51-65428-000	
 <p>K=109,50 L=218,50 H=7,00 D=110,50</p>	DS +0,50			51-65428-050	
 <p>K=110,00 L=218,50 H=7,00 D=111,00</p>	DS +1,00			51-65428-100	
 <p>K=110,50 L=218,50 H=7,00 D=111,50</p>	DS +1,50			51-65428-150	
 <p>K=111,00 L=218,50 H=7,00 D=112,00</p>	DS +2,00			51-65428-200	



106,680

6Y / 7A	D	1965	4 Cyl	3818cc	49-55kW	(67-75ps)
6Y / 7A / 2504E / 2508E	D	1965	3 Cyl	2868cc	32-35kW	(44-47ps)

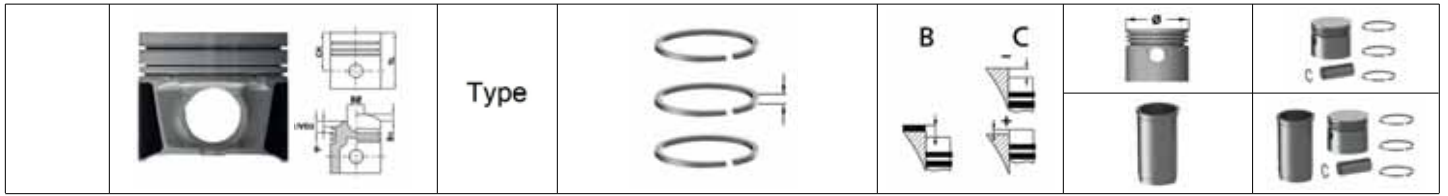
<p>11-01431-000 CH 70,150 B- 17,900 BØ 59,200 TL 129,000</p> <p> 38,10x89,15</p>	AP	<p>91-09433-000</p> <p>1 2,385  CR</p> <p>2 2,385  CR</p> <p>3 2,385  P</p> <p>4 4,747  CR</p>	-0,05/-0,15	<p>Ø 106,680</p> <p>Ø 107,180</p> <p>Ø 107,430</p> <p>Ø 107,680</p>	<p>31-03431-000</p> <p>31-03431-020</p> <p>31-03431-030</p> <p>31-03431-040</p>
<p>K=110,82 L=209,00 H=6,00 D=112,00</p>	DS			51-65431-000	
<p>K=111,05 L=209,00 H=6,00 D=112,00</p>	DS +0,25			51-65431-025	
<p>K=111,50 L=209,00 H=7,00 D=112,50</p>	DS +0,50			51-65431-050	
<p>K=112,05 L=209,00 H=7,00 D=113,00</p>	DS +1,00			51-65431-100	
<p>K=112,50 L=209,00 H=7,00 D=113,50</p>	DS +1,50			51-65431-150	
<p>K=113,05 L=209,00 H=7,00 D=114,00</p>	DS +2,00			51-65431-200	
<p>K=110,79 L=209,50</p>	DS			51-65432-000	













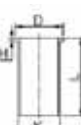


106,680

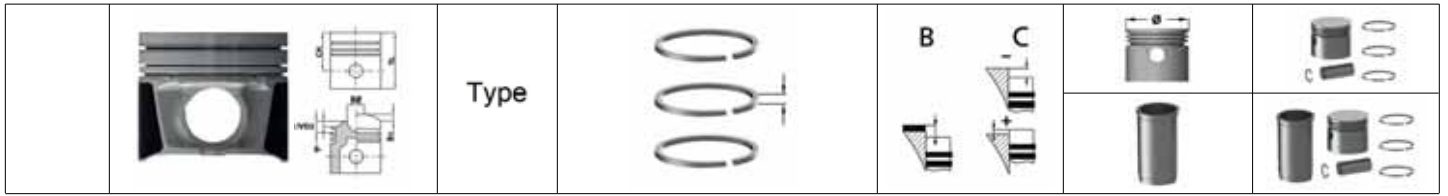
2504E	D	1965	3 Cyl	2870cc	35kW	(47ps)
ND	D	1965	3 Cyl	2870cc	32-35kW	(44-47ps)
RD	D	1965	4 Cyl	3815cc	46-50kW	(62-68ps)

<p>11-01433-000 CH 70,150 B- 17,020 BØ 63,800 TL 129,000</p> <p>38,10x89,15</p>	AP	<p>91-09433-000</p> <p>1 2,385 CR 2 2,385 CR 3 2,385 P 4 4,747 CR</p>	-0,05/-0,15	<p>Ø 106,680 Ø 107,180 Ø 107,430 Ø 107,680</p>	<p>31-03433-000 31-03433-020 31-03433-030 31-03433-040</p>
<p>K=110,82 L=209,00 H=6,00 D=112,00</p>	DS			51-65431-000	
<p>K=111,05 L=209,00 H=6,00 D=112,00</p>	DS +0,25			51-65431-025	
<p>K=111,50 L=209,00 H=7,00 D=112,50</p>	DS +0,50			51-65431-050	
<p>K=112,05 L=209,00 H=7,00 D=113,00</p>	DS +1,00			51-65431-100	
<p>K=112,50 L=209,00 H=7,00 D=113,50</p>	DS +1,50			51-65431-150	
<p>K=113,05 L=209,00 H=7,00 D=114,00</p>	DS +2,00			51-65431-200	
<p>K=110,79 L=209,50</p>	DS			51-65432-000	



106,700
 2502E D 1965 3 Cyl 2589cc 25-29kW (34-40ps)

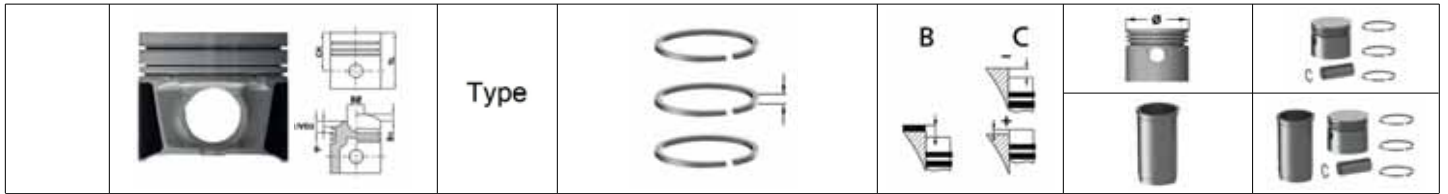
 11-02247-000 CH 75,230 B- 19,300 BØ 53,200 TL 134,080  38,10x89,15	AP	91-09433-000 1 2,385  CR 2 2,385  CR 3 2,385  P 4 4,747  CR	-0,05/-0,15	Ø 106,700 Ø 107,180 Ø 107,430 Ø 107,680	31-04247-000 31-04247-020 31-04247-030 31-04247-040
	K=110,82 L=209,00 H=6,00 D=112,00	DS		51-65431-000	
	K=111,05 L=209,00 H=6,00 D=112,00	DS +0,25		51-65431-025	
	K=111,50 L=209,00 H=7,00 D=112,50	DS +0,50		51-65431-050	
	K=112,05 L=209,00 H=7,00 D=113,00	DS +1,00		51-65431-100	
	K=112,50 L=209,00 H=7,00 D=113,50	DS +1,50		51-65431-150	
	K=113,05 L=209,00 H=7,00 D=114,00	DS +2,00		51-65431-200	
	K=110,79 L=209,50	DS		51-65432-000	



107,210

254 CID	D	4 Cyl	4160cc	66kW	(90ps)
380 CID	D 1981	6 Cyl	6221cc	89kW	(121ps)
DOVER	D	6 Cyl	6224cc	96kW	(128ps)

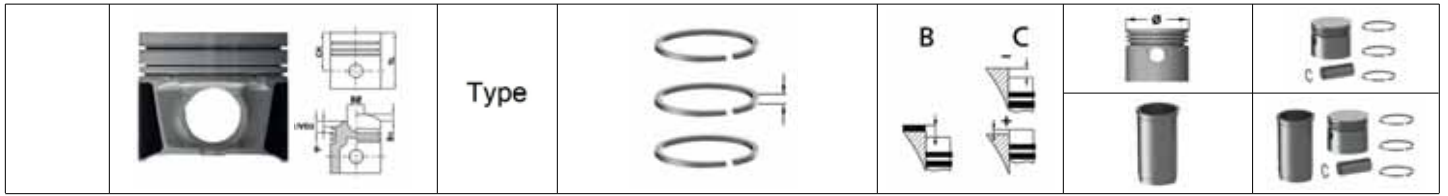
<p>11-01434-000 CH 71,250 VD1 2,300 B- 23,300 BØ 58,500 TL 119,900</p> <p>36,52x86,20</p>	AP	<p>91-39435-000</p> <p>1 2,385 CrP</p> <p>2 2,385 P</p> <p>3 4,747 CrP</p>	+0,152/+0,380	<p>Ø 107,210</p> <p>Ø 107,590</p> <p>Ø 108,100</p>	<p>31-03434-000</p> <p>31-03434-015</p> <p>31-03434-035</p>
	CP				
<p>K=111,41 L=213,50 H+F= +</p>	DS			51-65434-000	
<p>K=112,50 L=213,50 H=7,00 D=113,50</p>	DS +0,50			51-65435-050	
<p>K=113,00 L=213,50 H=7,00 D=114,00</p>	DS +1,00			51-65435-100	










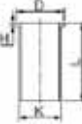

107,210


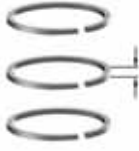
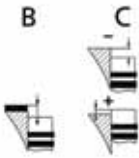

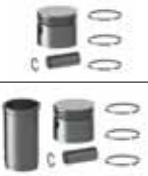


2711E	D	1969	1981	4 Cyl	622cc	55kW	(75ps)
2712E	D	1969		4 Cyl	4161cc	50-59kW	(68-80ps)
2714E	D	1969	1981	6 Cyl	6227cc	77kW	(105ps)
2715C	D			6 Cyl	6227cc	82kW	(112ps)
2715E	D	1969		6 Cyl	6227cc	77-86kW	(105-117ps)
2722	D	1969	1971	4 Cyl	4161cc	56kW	(76ps)
2725	D	1969	1971	6 Cyl	6227cc	85kW	(115ps)
7AA / 380CID	D	1973	1982	6 Cyl	6227cc	89kW	(120ps)

<p>11-01435-000 CH 71,250 VD1 1,700 B- 26,750 BØ 51,500 TL 119,900</p> <p> 36,51x90,00</p>	<p>91-09435-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 4,747 CrP</p>	-0,15/+0,40	Ø 107,210 Ø 107,710 Ø 107,960 Ø 108,210	31-03435-000 31-03435-020 31-03435-030 31-03435-040
<p>K=111,41 L=213,50 H+F= +</p>	DS		51-65434-000	
<p>K=112,50 L=213,50 H=7,00 D=113,50</p>	DS +0,50		51-65435-050	
<p>K=113,00 L=213,50 H=7,00 D=114,00</p>	DS +1,00		51-65435-100	















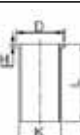
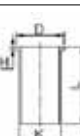
107,210						
254 CID		D	4 Cyl	4160cc	66kW	(90ps)
380 CID		D 1981	6 Cyl	6221cc	89kW	(121ps)
DOVER		D	6 Cyl	6224cc	96kW	(128ps)

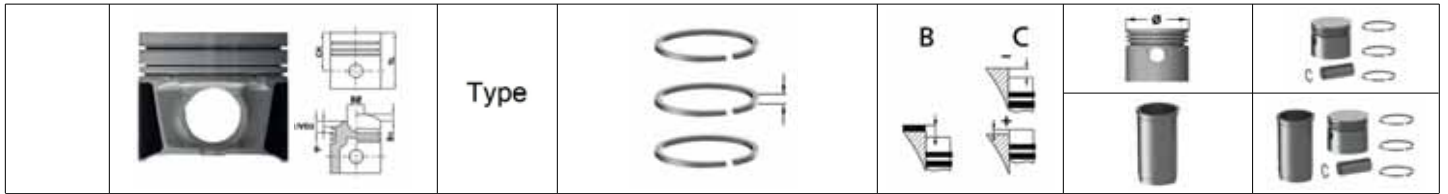
 <p>11-01454-000 CH 71,250 VD1 2,300 B- 23,300 BØ 58,700 TL 119,900</p>  36,52x86,20	AP	<p>91-09435-000</p> <p>1 2,385  CrP</p> <p>2 2,385  P</p> <p>3 2,385  P</p> <p>4 4,747  CrP</p>	+0,152/+0,380	<p>Ø 107,210</p> <p>Ø 107,590</p> <p>Ø 108,100</p>	<p>31-03454-000</p> <p>31-03454-015</p> <p>31-03454-035</p>
	CP				
 <p>K=111,41 L=213,50 H+F= +</p>	DS			51-65434-000	
 <p>K=112,50 L=213,50 H=7,00 D=113,50</p>	DS +0,50			51-65435-050	
 <p>K=113,00 L=213,50 H=7,00 D=114,00</p>	DS +1,00			51-65435-100	

	Type				
					

111,760

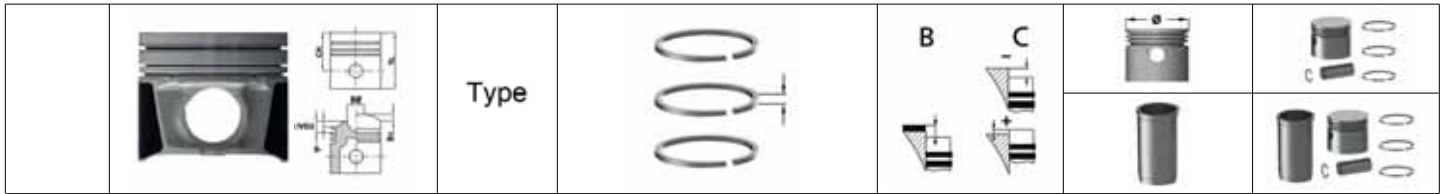
6Y 4.2	D	1971	4 Cyl	4195cc	69kW	(94ps)
7A 4.2	D	1971	4 Cyl	4195cc	69kW	(94ps)

	11-01436-000 CH 70,380 B- 22,170 BØ 56,000 TL 129,500	AP	91-09445-000 1 3,170  CR 2 2,385  CrP 3 2,385  P 4 4,747  CrP		Ø 111,760 Ø 112,260 Ø 112,510 Ø 112,760	31-03436-000 31-03436-020 31-03436-030 31-03436-040
	41,28x89,30					
	K=114,43 L=208,50 H=2,56 D=120,35	DS			51-65436-000	
	K=114,93 L=208,50 H=2,56 D=120,35	DS +0,50			51-65436-050	
	K=115,43 L=208,50 H=2,56 D=120,35	DS +1,00			51-65436-100	
	K=115,93 L=208,50 H=2,56 D=120,35	DS +1,50			51-65436-150	
	K=116,05 L=208,50 H=7,00 D=117,05	DS			51-65437-000	
	K=116,50 L=208,50 H=7,00 D=117,50	DS +0,50			51-65437-050	
	K=117,00 L=208,50 H=7,00 D=118,00	DS +1,00			51-65437-100	
	K=117,50 L=208,50 H=7,00 D=118,50	DS +1,50			51-65437-150	

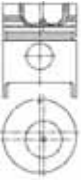







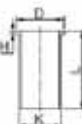


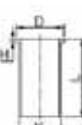
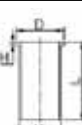




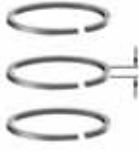
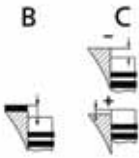

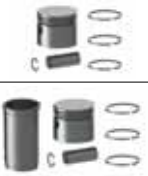
111,760	
2514E	D 1968 4 Cyl 4195cc 55kW (75ps)
4256	D 1968 4 Cyl 4195cc 56-58kW (76-79ps)

<p>11-01438-000 CH 70,660 B- 18,620 BØ 63,500 TL 129,500</p> <p>38,10x89,15</p>	AP	<p>91-09440-000</p> <p>1 2,385 CR</p> <p>2 2,385 CR</p> <p>3 2,385 P</p> <p>4 4,747 CR</p>	+0,18/+0,61	<p>Ø 111,760</p> <p>Ø 112,260</p> <p>Ø 112,510</p> <p>Ø 112,760</p>	<p>31-03438-000</p> <p>31-03438-020</p> <p>31-03438-030</p> <p>31-03438-040</p>
<p>K=114,43 L=208,50 H=2,56 D=120,35</p>	DS			51-65436-000	
<p>K=114,93 L=208,50 H=2,56 D=120,35</p>	DS +0,50			51-65436-050	
<p>K=115,43 L=208,50 H=2,56 D=120,35</p>	DS +1,00			51-65436-100	
<p>K=115,93 L=208,50 H=2,56 D=120,35</p>	DS +1,50			51-65436-150	
<p>K=116,05 L=208,50 H=7,00 D=117,05</p>	DS			51-65437-000	
<p>K=116,50 L=208,50 H=7,00 D=117,50</p>	DS +0,50			51-65437-050	
<p>K=117,00 L=208,50 H=7,00 D=118,00</p>	DS +1,00			51-65437-100	
<p>K=117,50 L=208,50 H=7,00 D=118,50</p>	DS +1,50			51-65437-150	



111,760

Traktor Engine		D	3 Cyl	cc	kW	(ps)
 <p>11-01439-000 CH 70,150 B- 22,960 BØ 56,000 TL 129,000</p>  38,10x89,15	AP	91-09440-000 1 2,385  CR 2 2,385  CR 3 2,385  P 4 4,747  CR	+0,28/+0,58	Ø 111,760 Ø 112,260 Ø 112,510 Ø 112,760	31-03439-000 31-03439-020 31-03439-030 31-03439-040	
 <p>K=114,43 L=208,50 H=2,56 D=120,35</p>	DS				51-65436-000	
 <p>K=114,93 L=208,50 H=2,56 D=120,35</p>	DS +0,50				51-65436-050	
 <p>K=115,43 L=208,50 H=2,56 D=120,35</p>	DS +1,00				51-65436-100	
 <p>K=115,93 L=208,50 H=2,56 D=120,35</p>	DS +1,50				51-65436-150	
 <p>K=116,05 L=208,50 H=7,00 D=117,05</p>	DS				51-65437-000	
 <p>K=116,50 L=208,50 H=7,00 D=117,50</p>	DS +0,50				51-65437-050	
 <p>K=117,00 L=208,50 H=7,00 D=118,00</p>	DS +1,00				51-65437-100	
 <p>K=117,50 L=208,50 H=7,00 D=118,50</p>	DS +1,50				51-65437-150	

	Type				
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111,760

BSD 333H / PD / 6Y / 7A










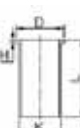
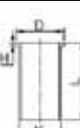



D 1968

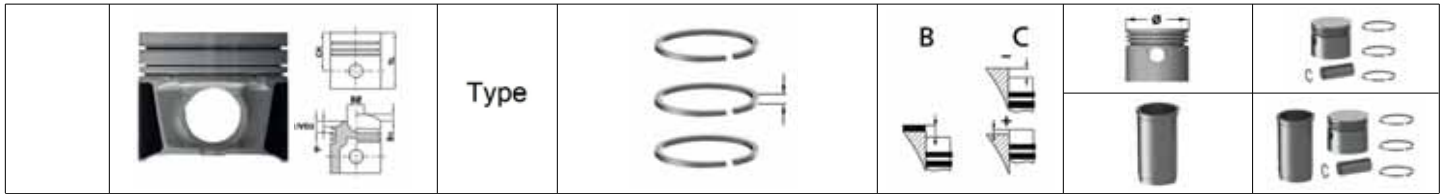
3 Cyl

BSD 444

D 1981








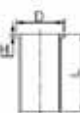
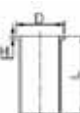


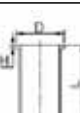
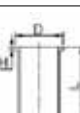
1987 4 Cyl

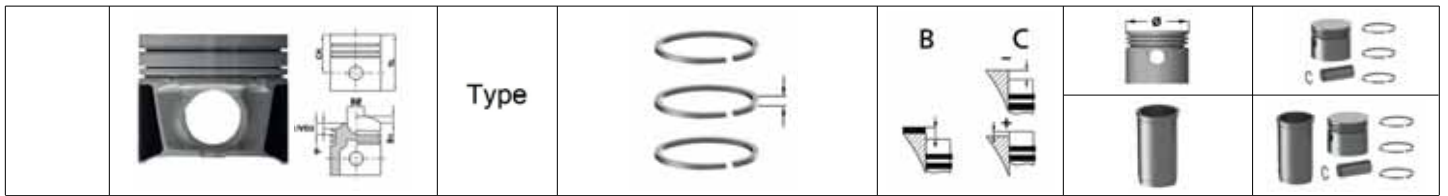
	<p>11-01440-000 CH 68,100 B- 19,800 BØ 63,600 TL 127,000</p>  38,10x89,15	AP	<p>91-09440-000 1 2,385  CR 2 2,385  CR 3 2,385  P 4 4,747  CR</p>	+0,28/+0,58	<p>Ø 111,760 Ø 112,260 Ø 112,510 Ø 112,760</p>	<p>31-03440-000 31-03440-020 31-03440-030 31-03440-040</p>
	K=114,43 L=208,50 H=2,56 D=120,35	DS			51-65436-000	
	K=114,93 L=208,50 H=2,56 D=120,35	DS +0,50			51-65436-050	
	K=115,43 L=208,50 H=2,56 D=120,35	DS +1,00			51-65436-100	
	K=115,93 L=208,50 H=2,56 D=120,35	DS +1,50			51-65436-150	
	K=116,05 L=208,50 H=7,00 D=117,05	DS			51-65437-000	
	K=116,50 L=208,50 H=7,00 D=117,50	DS +0,50			51-65437-050	
	K=117,00 L=208,50 H=7,00 D=118,00	DS +1,00			51-65437-100	
	K=117,50 L=208,50 H=7,00 D=118,50	DS +1,50			51-65437-150	















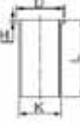
111,760


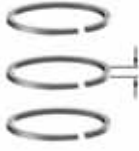
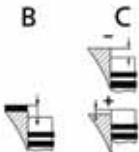

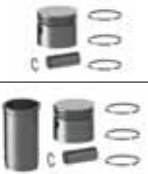



7740 D 1991 1998 4 Cyl cc kW (86ps)

 <p>11-01441-000 CH 72,900 B- 19,750 BØ 61,900 TL 126,250</p>  41,27x94,40	<p>AP</p>	<p>91-09441-000 1 3,170  CR 2 2,385  CrP 3 4,747  CR</p>		<p>Ø 111,760</p>	<p>31-03441-000</p>
	<p>K=114,43 L=208,50 H=2,56 D=120,35</p>	<p>DS</p>		<p>51-65436-000</p>	
	<p>K=114,93 L=208,50 H=2,56 D=120,35</p>	<p>DS +0,50</p>		<p>51-65436-050</p>	
	<p>K=115,43 L=208,50 H=2,56 D=120,35</p>	<p>DS +1,00</p>		<p>51-65436-100</p>	
	<p>K=115,93 L=208,50 H=2,56 D=120,35</p>	<p>DS +1,50</p>		<p>51-65436-150</p>	
	<p>K=116,05 L=208,50 H=7,00 D=117,05</p>	<p>DS</p>		<p>51-65437-000</p>	
	<p>K=116,50 L=208,50 H=7,00 D=117,50</p>	<p>DS +0,50</p>		<p>51-65437-050</p>	
	<p>K=117,00 L=208,50 H=7,00 D=118,00</p>	<p>DS +1,00</p>		<p>51-65437-100</p>	
	<p>K=117,50 L=208,50 H=7,00 D=118,50</p>	<p>DS +1,50</p>		<p>51-65437-150</p>	



111,760
Genesis D 4 Cyl (ps)

 <p>11-01442-000 CH 80,850 B- 18,500 BØ 61,900 TL 134,200</p>  <p>38,10x89,15</p>	<p>AP</p>	<p>91-09442-000 1 2,385  CR 2 2,385  CR 3 4,747  CR</p>		<p>Ø 111,760 Ø 112,260</p>	<p>31-03442-000 31-03442-020</p>
 <p>K=114,43 L=208,50 H=2,56 D=120,35</p>	<p>DS</p>			<p>51-65436-000</p>	
 <p>K=114,93 L=208,50 H=2,56 D=120,35</p>	<p>DS +0,50</p>			<p>51-65436-050</p>	
 <p>K=115,43 L=208,50 H=2,56 D=120,35</p>	<p>DS +1,00</p>			<p>51-65436-100</p>	
 <p>K=115,93 L=208,50 H=2,56 D=120,35</p>	<p>DS +1,50</p>			<p>51-65436-150</p>	
 <p>K=116,05 L=208,50 H=7,00 D=117,05</p>	<p>DS</p>			<p>51-65437-000</p>	
 <p>K=116,50 L=208,50 H=7,00 D=117,50</p>	<p>DS +0,50</p>			<p>51-65437-050</p>	
 <p>K=117,00 L=208,50 H=7,00 D=118,00</p>	<p>DS +1,00</p>			<p>51-65437-100</p>	
 <p>K=117,50 L=208,50 H=7,00 D=118,50</p>	<p>DS +1,50</p>			<p>51-65437-150</p>	

	Type				
					

111,760

7A 6.6 102 kW








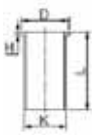


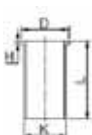
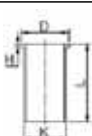


D 1969

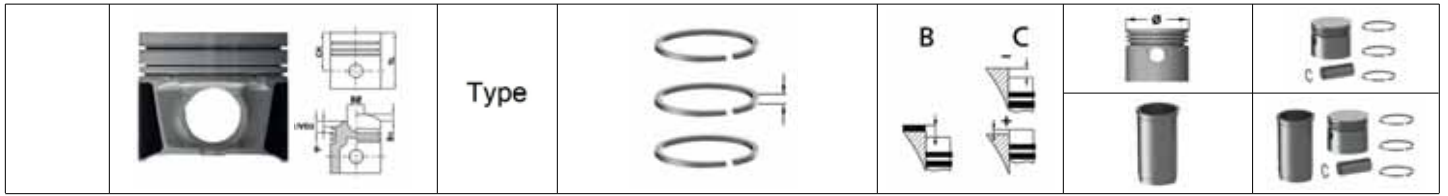
6 Cyl

BSD 444 T






D 1981

6 Cyl

	11-01445-000 CH 67,800 B- 19,000 BØ 63,700 TL 127,000	AP	91-09445-000 1 3,170  CR 2 2,385  CrP 3 2,385  P 4 4,747  CrP		Ø 111,760 Ø 112,260 Ø 112,510 Ø 112,760	31-03445-000 31-03445-020 31-03445-030 31-03445-040
	41,28x89,30					
	K=114,43 L=208,50 H=2,56 D=120,35	DS			51-65436-000	
	K=114,93 L=208,50 H=2,56 D=120,35	DS +0,50			51-65436-050	
	K=115,43 L=208,50 H=2,56 D=120,35	DS +1,00			51-65436-100	
	K=115,93 L=208,50 H=2,56 D=120,35	DS +1,50			51-65436-150	
	K=116,05 L=208,50 H=7,00 D=117,05	DS			51-65437-000	
	K=116,50 L=208,50 H=7,00 D=117,50	DS +0,50			51-65437-050	
	K=117,00 L=208,50 H=7,00 D=118,00	DS +1,00			51-65437-100	
	K=117,50 L=208,50 H=7,00 D=118,50	DS +1,50			51-65437-150	














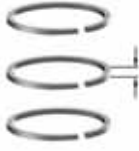
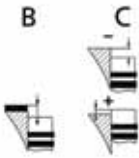



111,760

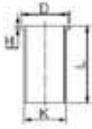

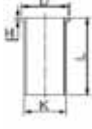

Genesis	D	4 Cyl	cc	kW	(ps)
 <p>11-01458-000 CH 73,250 B- 21,670 BØ 62,000 TL 126,600</p>  38,10x89,15	AP	<p>91-39440-000</p> <p>1 2,385  CR</p> <p>2 2,385  CR</p> <p>3 4,747  CR</p>			31-03458-000

111,760

2512E	D	1968	3 Cyl		
3201	D	1976	3 Cyl		
6Y3.3	D	1964 1981	3 Cyl		
7A 4.2	D	1964 1981	3 Cyl		
BSD 333 H	D	1981	3 Cyl		
BSD 444	D	1981	4 Cyl		
PD	D	1968	3 Cyl		

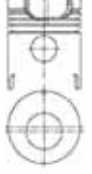





 <p>11-02240-000 CH 68,100 B- 19,600 BØ 63,500 TL 127,000</p>  38,10x89,15	AP	<p>91-09445-000</p> <p>1 3,170  CR</p> <p>2 2,385  CrP</p> <p>3 2,385  P</p> <p>4 4,747  CrP</p>		<p>Ø 111,760</p> <p>Ø 112,260</p> <p>Ø 112,510</p> <p>Ø 112,760</p>	<p>31-04240-000</p> <p>31-04240-020</p> <p>31-04240-030</p> <p>31-04240-040</p>
 <p>K=114,43 L=208,50 H=2,56 D=120,35</p>	DS			51-65436-000	
 <p>K=114,93 L=208,50 H=2,56 D=120,35</p>	DS +0,50			51-65436-050	
 <p>K=115,43 L=208,50 H=2,56 D=120,35</p>	DS +1,00			51-65436-100	
 <p>K=115,93 L=208,50 H=2,56 D=120,35</p>	DS +1,50			51-65436-150	


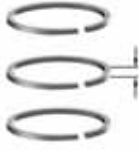
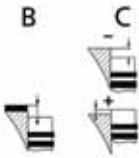

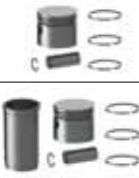
	Type		 	 
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	K=116,05 L=208,50 H=7,00 D=117,05	DS			51-65437-000
	K=116,50 L=208,50 H=7,00 D=117,50	DS +0,50			51-65437-050
	K=117,00 L=208,50 H=7,00 D=118,00	DS +1,00			51-65437-100
	K=117,50 L=208,50 H=7,00 D=118,50	DS +1,50			51-65437-150

111,760









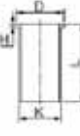
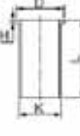

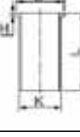
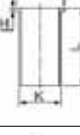
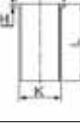
7A 6.6 102kW	D 1976	6 Cyl	6588cc	102-137kW	(138-186ps)
BSD 444 T	D 1981	6 Cyl	6588cc	68kW	(92ps)

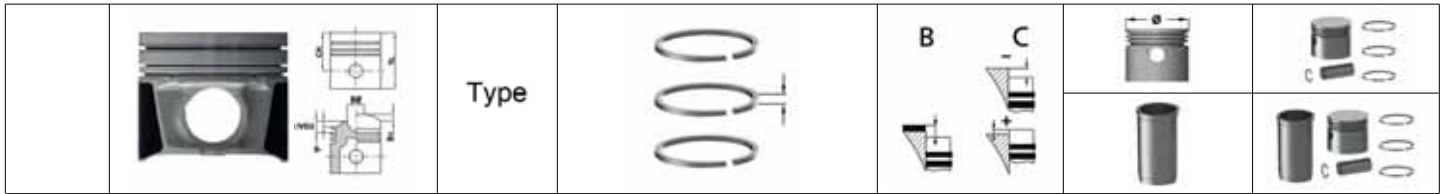
	11-02241-000 CH 67,800 B- 18,800 BØ 63,700 TL 127,000	AP	91-09445-000 1 3,170  CR 2 2,385  CrP 3 2,385  P 4 4,747  CrP		Ø 111,760 Ø 112,260 Ø 112,510 Ø 112,760	31-04241-000 31-04241-020 31-04241-030 31-04241-040
	41,28x89,30					

	Type				
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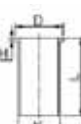



111,775


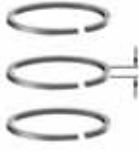
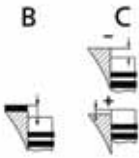

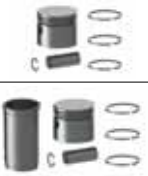



BSD 444 D 1981 4 Cyl 4385cc 60kW (82ps)

	<p>11-02945-000 CH 68,100 B- 18,900 BØ 61,900 TL 127,000</p>  38,10x89,15	AP	<p>91-09440-000 1 2,385  CR 2 2,385  CR 3 2,385  P 4 4,747  CR</p>		<p>Ø 111,775 Ø 112,275 Ø 112,525 Ø 112,775</p>	<p>31-04945-000 31-04945-020 31-04945-030 31-04945-040</p>
	<p>K=114,43 L=208,50 H=2,56 D=120,35</p>	DS			51-65436-000	
	<p>K=114,93 L=208,50 H=2,56 D=120,35</p>	DS +0,50			51-65436-050	
	<p>K=115,43 L=208,50 H=2,56 D=120,35</p>	DS +1,00			51-65436-100	
	<p>K=115,93 L=208,50 H=2,56 D=120,35</p>	DS +1,50			51-65436-150	
	<p>K=116,05 L=208,50 H=7,00 D=117,05</p>	DS			51-65437-000	
	<p>K=116,50 L=208,50 H=7,00 D=117,50</p>	DS +0,50			51-65437-050	
	<p>K=117,00 L=208,50 H=7,00 D=118,00</p>	DS +1,00			51-65437-100	
	<p>K=117,50 L=208,50 H=7,00 D=118,50</p>	DS +1,50			51-65437-150	










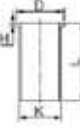
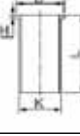
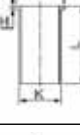

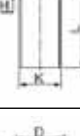
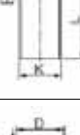
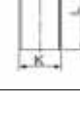
111,775
 BSD 442 D 4 Cyl 4385cc kW (ps)


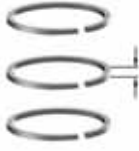
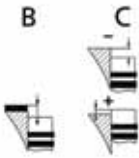

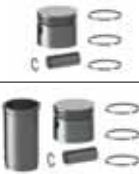
 11-02946-000 CH 70,660 B- 17,900 BØ 61,900 TL 129,500  38,10x89,15	AP	91-09440-000 1 2,385  CR 2 2,385  CR 3 2,385  P 4 4,747  CR		Ø 111,775 Ø 112,275 Ø 112,525 Ø 112,775	31-04946-000 31-04946-020 31-04946-030 31-04946-040
	K=114,43 L=208,50 H=2,56 D=120,35	DS		51-65436-000	
	K=114,93 L=208,50 H=2,56 D=120,35	DS +0,50		51-65436-050	
	K=115,43 L=208,50 H=2,56 D=120,35	DS +1,00		51-65436-100	
	K=115,93 L=208,50 H=2,56 D=120,35	DS +1,50		51-65436-150	
	K=116,05 L=208,50 H=7,00 D=117,05	DS		51-65437-000	
	K=116,50 L=208,50 H=7,00 D=117,50	DS +0,50		51-65437-050	
	K=117,00 L=208,50 H=7,00 D=118,00	DS +1,00		51-65437-100	
	K=117,50 L=208,50 H=7,00 D=118,50	DS +1,50		51-65437-150	

	Type				
					

111,775






401 D 6 Cyl 6571cc

	<p>11-02947-000 CH 68,350 B- 22,000 BØ 58,000 TL 127,000</p> <p> 38,10x89,15</p>	AP	<p>91-09440-000</p> <p>1 2,385  CR 2 2,385  CR 3 2,385  P 4 4,747  CR</p>		<p>Ø 111,775 Ø 112,275 Ø 112,525 Ø 112,775</p>	<p>31-04947-000 31-04947-020 31-04947-030 31-04947-040</p>
	<p>K=114,43 L=208,50 H=2,56 D=120,35</p>	DS			51-65436-000	
	<p>K=114,93 L=208,50 H=2,56 D=120,35</p>	DS +0,50			51-65436-050	
	<p>K=115,43 L=208,50 H=2,56 D=120,35</p>	DS +1,00			51-65436-100	
	<p>K=115,93 L=208,50 H=2,56 D=120,35</p>	DS +1,50			51-65436-150	
	<p>K=116,05 L=208,50 H=7,00 D=117,05</p>	DS			51-65437-000	
	<p>K=116,50 L=208,50 H=7,00 D=117,50</p>	DS +0,50			51-65437-050	
	<p>K=117,00 L=208,50 H=7,00 D=118,00</p>	DS +1,00			51-65437-100	
	<p>K=117,50 L=208,50 H=7,00 D=118,50</p>	DS +1,50			51-65437-150	

	Type				
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112,010






ECOTORQNHDD D 2003 6 Cyl 7300cc

	11-02238-000 CH 79,350 B- 18,760 BØ 60,710 TL 120,350	AP YS	91-09238-000 1 3,000  Ck 2 2,500  Sn 3 3,000  Sn	+0,21/+0,31	Ø 112,010	31-04238-000
	46,00x92,30					

	K=115,00 L=235,00 H=5,00 D=125,80	DF			51-35462-000	71-08238-000
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125,000

F6L 413 FR / F D 1971 6 Cyl 9572cc

	11-01520-000 CH 87,400 B+ 5,250 B- 47,650 BØ 48,000 TL 138,650	AP	91-09520-000 1 3,000  CrP 2 2,500  P 3 4,000  CrP	+1,15/+1,30	Ø 125,000 Ø 125,500 Ø 126,000	31-03520-000 31-03520-050 31-03520-100
	45,00x102,00					
Deutz ve Ford ile Ortak Motor						

	K=139,00 L=250,70 H=169,50 D=150,00	AF-PH			51-95529-000	71-07119-000
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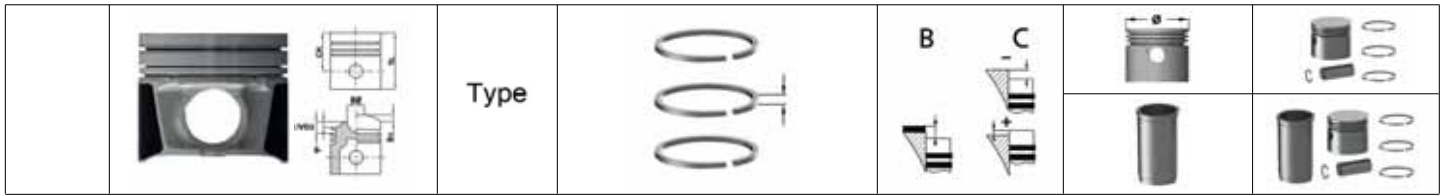
	K=139,00 L=250,70 H=169,50 D=154,00	AF-PH			51-95556-000	71-07134-000
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		Type					
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100,000

590E,6D	D	1957	1965	6 Cyl	5416cc	79kW	(108ps)
592E,4D	D	1952	1965	4 Cyl	3610cc	51kW	(69ps)






 11-02000-000 CH 71,040 VD1 1,740 B- 24,740 BØ 50,000 TL 118,140 34,93x85,70		91-09000-000 1 2,385 CrP 2 2,385 P 3 2,385 P 4 4,747 CrP 5 4,747 P	-0,700/+0,127	Ø 100,000	31-04000-000
 K=108,67 L=223,00 H+F=11,17+0,65 D=117,40	WF			51-06000-000	71-08000-000
 K=111,80 L=223,00 H+F=11,17+0,65 D=119,60	WF		O-Ring/Seal 55-50910-000 1 NBR 109,50x4,75 1 NBR 111,50x2,25	51-06001-000 52-06001-000	71-08001-000 72-08001-000
 K=111,80 L=222,25 H=11,15 D=119,60	WF			51-06004-000	71-08004-000



75,000






E / ES71 D 1958 1 Cyl 353cc 3-4kW (4-6ps)

E / ES75 D 1958 1 Cyl 353cc 3-4kW (4-6ps)

 <p>11-01264-000 CH 48,500 VD1 1,200 VD2 1,550 TL 87,500</p>  25,00x64,00	CP	<p>91-09264-000</p> <p>1 1,750  CrP</p> <p>2 1,750  P</p> <p>3 4,000  P</p>	+0,65/+0,75	Ø 75,000 Ø 75,500 Ø 76,000 Ø 76,500	<p>31-03264-000 31-03264-050 31-03264-100 31-03264-150</p>

90,000

E89 / FG / FL / G D 1965 1 Cyl 668cc 7-9kW (10-12ps)

 <p>11-01472-000 CH 53,500 B- 8,800 BØ 27,500 TL 103,500</p>  30,00x78,00	CP	<p>91-09472-000</p> <p>1 3,000  CrP</p> <p>2 3,000  P</p> <p>3 5,000  CrP</p>		Ø 90,000 Ø 90,500 Ø 91,000	<p>31-03472-000 31-03472-020 31-03472-040</p>








108,000

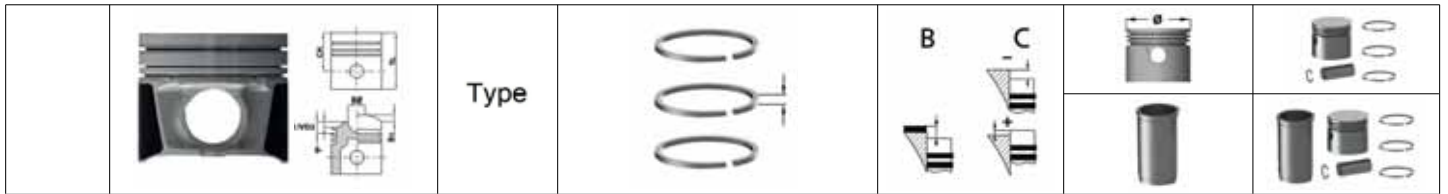
D 108 D 3 Cyl 3021cc 39-44kW (54-60ps)

E 108 D 1 Cyl 1007cc 13-15kW (18-20ps)

V 108 D 1970 4 Cyl 4028cc 53-59kW (72-80ps)

Z 108 D 2 Cyl 2014cc 26-30kW (36-40ps)

 <p>11-01267-000 CH 71,000 VD1 0,900 B- 20,000 BØ 55,700 TL 108,500</p>  35,00x85,00	CP	<p>91-09267-000</p> <p>1 3,000  CrP</p> <p>2 3,000  P</p> <p>3 3,000  P</p> <p>4 5,000  P</p>	+1,10/+1,30	Ø 108,000 Ø 108,500 Ø 109,000	<p>31-03267-000 31-03267-020 31-03267-040</p>
 <p>K=118,00 L=217,50 H=166,20 D=129,50</p>	AF			<p>51-95291-000</p>	<p>71-07267-000</p>



82,550


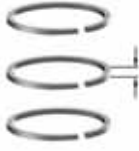
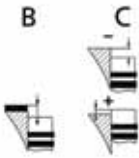

DD 132	D	1953	1963	4 Cyl	2175cc	22kW	(33ps)
DD 66	D	1956		2 Cyl	1088cc	10kW	(14ps)
DD 99	D	1956	1963	3 Cyl	1631cc	15-17kW	(20-24ps)

<p>11-01483-000 CH 50,900 B- 5,500 TL 99,000</p> <p> 28,00x67,00</p>		<p>91-09483-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 4,747 P 5 4,747 P</p>			Ø 82,550	31-03483-000
<p>K=90,40 L=179,50 H=5,80 D=99,30</p>	WF				51-05700-000	71-07483-000
<p>K=90,40 L=179,50 H=6,00 D=99,30</p>	WF +0,20				51-05700-020	

87,310

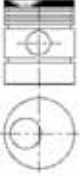








DD148 / DU148	D	1959	1965	4 Cyl	2434cc	27-28kW	(36-38ps)
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<p>11-01484-000 CH 50,900 B- 5,500 TL 99,000</p> <p> 28,00x72,00</p>		<p>91-09484-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 4,747 P 5 4,747 P</p>			Ø 87,310	31-03484-000
<p>K=95,25 L=179,50 H=5,80 D=103,30</p>	WF				51-05702-000	71-07487-000
<p>K=95,25 L=179,50 H=6,00 D=103,30</p>	WF +0,20				51-05702-020	

	Type			
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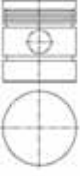







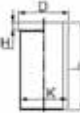
87,310

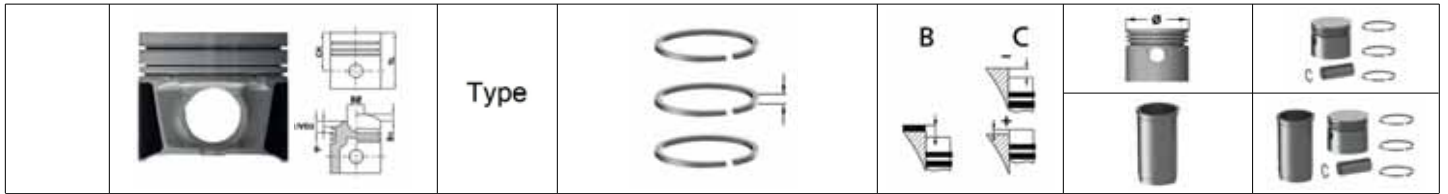
DD 74	D	2 Cyl	1217cc	12-14kW	(17-19ps)
DD111 / DU11	D 1956	1975	3 Cyl	1825cc	17-26kW (24-35ps)

 11-01485-000 CH 50,900 B- 5,500 BØ 35,000 TL 99,000  28,00x72,00		91-09485-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 4,747  CR 5 4,747  P		Ø 87,310	31-03485-000
 K=95,25 L=179,50 H=5,80 D=104,00	WF			51-05701-000	71-07485-000
 K=95,25 L=179,50 H=6,00 D=104,00	WF +0,20			51-05701-020	

88,900

BD 154	D 1963	4 Cyl	2520cc	26kW	(36ps)
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 11-01480-000 CH 50,900 TL 99,000  28,00x77,00		91-09480-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 4,747  P 5 4,747  CrP	-0,008/+0,28	Ø 88,900	31-03480-000
 K=93,65 L=185,70 H=5,80 D=101,50	WF			51-05480-000	71-07480-000
 K=99,00 L=185,70 H=11,00 D=104,00	WF-OS			51-05481-000	71-07478-000

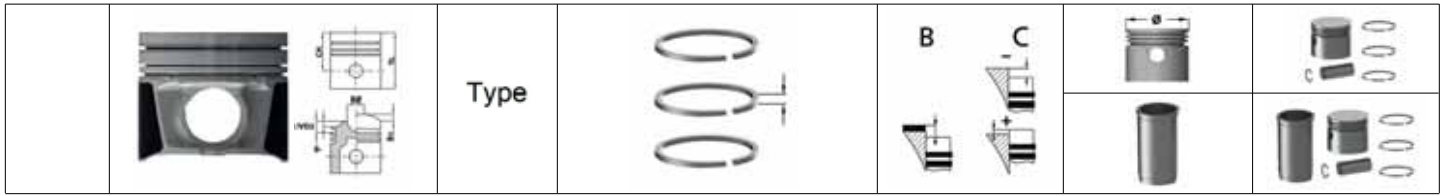


98,425						
D 179		D	1965	3 Cyl	2933cc	36-38kW (49-52ps)
D 239		D	1965	4 Cyl	3910cc	45-67kW (62-91ps)
D 358		D	1964	6 Cyl	5866cc	72-104kW (98-142ps)
UD 179		D	1965	3 Cyl	2933cc	50kW (68ps)
UD 358		D	1965	6 Cyl	5866cc	104kW (141ps)

<p>11-01213-000 CH 67,000 B- 24,000 BØ 56,000 TL 107,000</p> <p>36,00x82,00</p>	AP	<p>91-09213-000</p> <p>1 3,160 CR</p> <p>2 2,385 CR</p> <p>3 4,747 CR</p>	-0,40/-0,55	Ø 98,425	31-03213-000
<p>K=110,75 L=216,10 H+F=7,72+1,00 D=119,00</p>	WF			51-05482-000	71-07213-000
<p>K=110,75 L=216,10 H+F=7,72+1,00 D=119,00</p>	WF		O-Ring/Seal 55-50909-000 1 FPM 110,00x5,00 1 FPM 109,16x4,75	51-05484-000 52-05484-000	71-07484-000 72-07484-000

98,425						
D 179		D	1965	3 Cyl	2933cc	33-50kW (48-68ps)
D 239		D	1967	4 Cyl	3910cc	45-67kW (61-91ps)
D 358		D	1965	6 Cyl	5860cc	66-104kW (90-142ps)

<p>11-01219-000 CH 67,000 B- 22,100 BØ 56,000 TL 107,000</p> <p>36,00x82,00</p>	AP	<p>91-09213-000</p> <p>1 3,160 CR</p> <p>2 2,385 CR</p> <p>3 4,747 CR</p>		Ø 98,425	31-03219-000
<p>K=110,75 L=216,10 H+F=7,72+1,00 D=119,00</p>	WF		O-Ring/Seal 55-50909-000 1 FPM 110,00x5,00 1 FPM 109,16x4,75	51-05484-000 52-05484-000	71-07219-000 72-07219-000



98,425							
D 155			D 1966	3 Cyl	2540cc	26-33kW	(35-45ps)
D 206			D 1965	4 Cyl	3380cc	40-50kW	(54-68ps)
D 310			D 1965	6 Cyl	5070cc	62-79kW	(84-107ps)
UD 155			D 1966	1990	3 Cyl	2540cc	26-33kW (35-45ps)
UD 206			D 1965		4 Cyl	3380cc	58kW (79ps)
UD 310			D 1965		6 Cyl	5070cc	90kW (123ps)

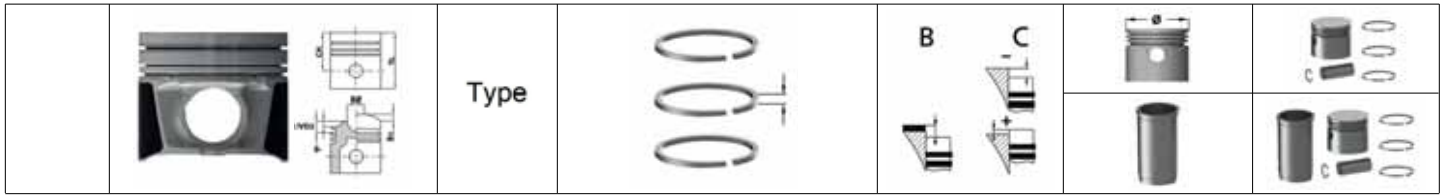
	11-01227-000 CH 67,000 B- 19,900 BØ 55,000 TL 107,000 36,00x82,00	AP	91-09213-000 1 3,160 CR 2 2,385 CR 3 4,747 CR		Ø 98,425	31-03227-000

	K=110,70 L=201,10 H+F=7,72+1,00 D=119,00	WF			51-05479-000	71-07227-000

98,425							
D 155			D	3 Cyl	2540cc	26-33kW	(36-45ps)
D 206			D	4 Cyl	3380cc	43kW	(57ps)
D 310			D 1965	6 Cyl	5070cc	63-79kW	(85-107ps)

	11-01482-000 CH 67,000 B- 19,900 BØ 55,000 TL 101,500 36,00x82,00		91-09482-000 1 3,160 CrP 2 2,385 CrP 3 4,747 CrP	+0,46/+0,77	Ø 98,425	31-03482-000


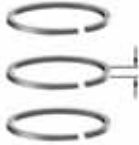
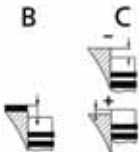


	K=110,70 L=201,10 H+F=7,72+1,00 D=119,00	WF			51-05479-000	71-07482-000



98,480		6.354V	D	1972	1975	6 Cyl	5800cc	87kW	(118ps)
		6354	D	1969		6 Cyl	5800cc	69-82kW	(94-112ps)

<p>11-01840-000 CH 70,100 B- 25,700 BØ 54,000 TL 120,700</p> <p>34,93x84,10</p>	<p>91-09863-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 6,350 CrP 5 6,350 P</p>	<p>Ø 98,480</p>	<p>31-03840-000</p>







<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			51-35844-000	
<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			51-35844-000	71-07840-000
<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00			51-35844-100	
<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS			51-65840-000	
<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25			51-65840-025	
<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50			51-65840-050	
<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00			51-65840-100	
<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50			51-65840-150	
<p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	DS +2,50			51-65840-250	

	Type				
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	K=103,28 L=229,00 H+F= +	DS			51-65845-000
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98,480

4212 D 1975 4 Cyl 3864cc 44-47kW (60-64ps)

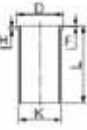
	11-01842-000 CH 76,500 B- 19,200 BØ 54,000 TL 127,300		91-49863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP		Ø 98,480	31-03842-000
	 34,93x84,10					
Ihc/Case, Massey-Ferguson ve Perkins ile Ortak Motor						

	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07842-000
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	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
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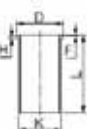
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
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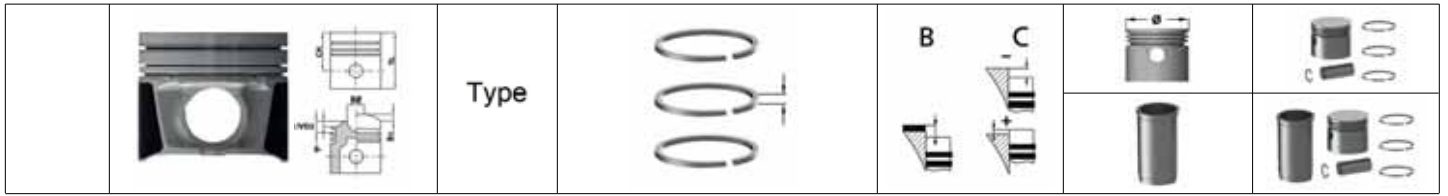
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
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	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
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	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
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	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
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	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
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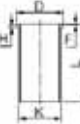
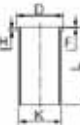
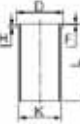
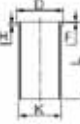
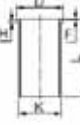


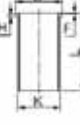



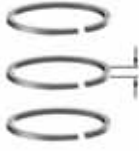
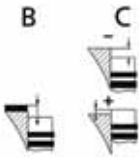


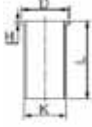
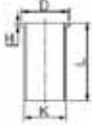

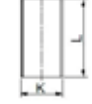
98,480

4236 D 1972 4 Cyl 3864cc 48-60kW (59-80ps)

 <p>11-01848-000 CH 70,050 B- 20,150 BØ 61,000 TL 120,850</p>  <p>34,93x84,10</p>	<p>AP</p>	<p>91-09867-000</p> <p>1 2,385  CrP</p> <p>2 2,385  P</p> <p>3 4,747  CR</p>	<p>+0,28/+0,48</p>	<p>Ø 98,480</p>	<p>31-03848-000</p>
	<p>CP</p>				

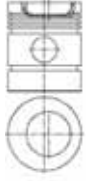






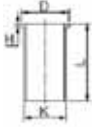



Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RV) ve Volvo ile Ortak Motor


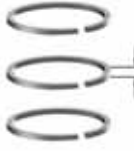
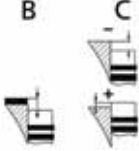

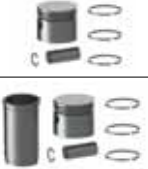

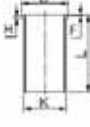
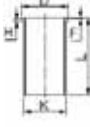

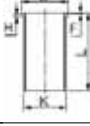
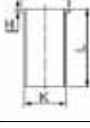
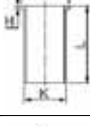
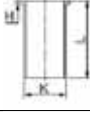
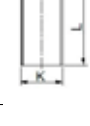
 <p>K=104,21 L=227,00 H=3,83 D=107,38</p>	<p>DF</p>			<p>51-35842-000</p>	<p>71-07858-000</p>
 <p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	<p>DF</p>			<p>51-35844-000</p>	<p>71-07848-000</p>
 <p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	<p>DF</p> <p>+1,00</p>			<p>51-35844-100</p>	
 <p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p>			<p>51-65840-000</p>	
 <p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p> <p>+0,25</p>			<p>51-65840-025</p>	
 <p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p> <p>+0,50</p>			<p>51-65840-050</p>	
 <p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	<p>DS</p> <p>+1,00</p>			<p>51-65840-100</p>	
 <p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	<p>DS</p> <p>+1,50</p>			<p>51-65840-150</p>	
 <p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	<p>DS</p> <p>+2,50</p>			<p>51-65840-250</p>	


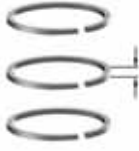
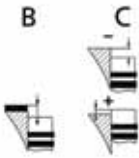




		Type				
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	

98,480

4236 D 1972 4 Cyl 3864cc 48-60kW (59-80ps)






	11-01863-000 CH 70,250 B- 20,280 BØ 60,500 TL 120,900  34,93x84,10		91-09863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP 5 6,350  P		Ø 98,480	31-03863-000
Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RVI) ve Volvo ile Ortak Motor						
	K=104,21 L=227,00 H=3,83 D=107,38	DF			51-35842-000	71-07864-000
	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07863-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	

		Type				
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	

		Type		 		
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100,000






D268	D	4 Cyl	4388cc	65-65kW	(77-88ps)
D402	D 1973	6 Cyl	6582cc	kW	(ps)

	11-01486-000 CH 67,000 B- 24,000 BØ 59,500 TL 107,000  36,00x82,00	AP	91-09486-000 1 3,160  CR 2 2,385  CR 3 4,747  CR		Ø 100,000	31-03486-000
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	K=110,75 L=216,10 H+F=7,72+1,00 D=119,00	WF			51-05483-000	71-07486-000
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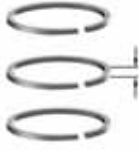
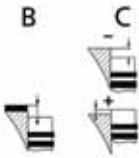

100,000

F 4 L 912 D	D 1973 1986	4 Cyl	3770cc	19-59 kW	(20-80ps)
F 6 L 912 D	D 1973 1986	6 Cyl	5655cc	42-92 kW	(57-125ps)

	11-01510-000 CH 71,900 B+ 5,600 B- 21,400 BØ 55,000 TL 123,600  35,00x80,00		91-09510-000 1 3,000  CrP 2 2,500  P 3 5,000  CrP	+1,00/+1,20	Ø 100,000 Ø 100,500 Ø 101,000	31-03510-000 31-03510-050 31-03510-100
Deutz ve Ihc/Case ile Ortak Motor						







	K=110,00 L=222,30 H=137,30 D=120,00	AF			51-95512-000	71-07510-000
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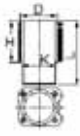
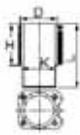
	K=110,00 L=222,30 H=136,80 D=120,00	AF		O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50	51-96212-000 52-96212-000	71-07718-000 72-07718-000
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	Type			
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100,000






F 4 L 912 D	D	1973	1986	4 Cyl	3770cc	19-59kW	(20-80ps)
F 6 L 912 D	D	1973	1986	6 Cyl	5655cc	42-92kW	(57-125ps)

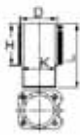
 11-01512-000 CH 71,900 B+ 5,600 B- 21,400 BØ 55,000 TL 123,600  35,00x80,00		91-09512-000 1 3,000  CrP 2 2,500  P 3 2,500  P 4 5,000  CrP	+1,00/+1,20	Ø 100,000 Ø 100,500 Ø 101,000	31-03512-000 31-03512-050 31-03512-100
Deutz ve Ihc/Case ile Ortak Motor					


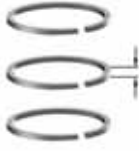
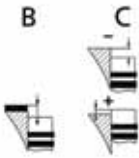

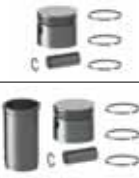
 K=110,00 L=222,30 H=137,30 D=120,00	AF			51-95512-000	71-07512-000
 K=110,00 L=222,30 H=136,80 D=120,00	AF		O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50	51-96212-000 52-96212-000	71-07719-000 72-07719-000

100,000






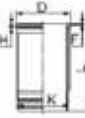
F 4 L 912 D	D	1973	1986	4 Cyl	3770cc	19-59 kW	(20-80ps)
F 6 L 912 D	D	1973	1986	6 Cyl	5655cc	42-92 kW	(57-125ps)

 11-01715-000 CH 71,800 VD1 1,100 B+ 5,700 B- 21,400 BØ 55,000 TL 123,600  35,00x80,00		91-09506-000 1 3,000  CrP 2 2,000  P 3 3,500  CR		Ø 100,000 Ø 100,500	31-03715-000 31-03715-050
Deutz ve Ihc/Case ile Ortak Motor					






 K=110,00 L=222,30 H=137,30 D=120,00	AF			51-95512-000	71-07715-000
 K=110,00 L=222,30 H=136,80 D=120,00	AF		O-Ring/Seal 55-50919-000 1 SM 110,10x117,60x0,50	51-96212-000 52-96212-000	71-07717-000 72-07717-000

	Type				
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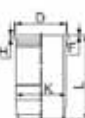
101,600


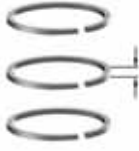








W 5540		D		2 Cyl	cc	kW	(ps)
	11-01214-000 CH 60,875 VD1 1,600 B- 15,000 BØ 66,000 TL 108,000		91-09214-000 1 3,160  CrP 2 2,385  CrP 3 4,747  CrP		Ø 101,600		31-03214-000
	31,75x81,00						
	K=108,60 L=187,25 H+F=6,23+0,97 D=115,00	WF				51-05353-000	71-07214-000

104,000

8045.25D.313T		D		4 Cyl			
	11-01031-000 CH 65,330 B- 18,200 BØ 58,000 TL 104,330	AP	91-09409-000 1 3,000  MoP 2 2,500  P 3 4,000  CR		Ø 104,000		31-03031-000
	38,00x85,00						
Iveco ve Ihc/Case ile Ortak Motor							






130,000

OM 942.967 Euro 2/3		D 1998		8 Cyl	15928cc	370-380kW	(503-516ps)
	11-02677-000 CH 78,550 B- 16,200 BØ 92,800 TL 119,500	AP YS PDB	91-09710-000 1 3,000  CR 2 3,000  CR 3 4,000  CR	+0,27/+0,61	Ø 130,000		31-04677-000
	52,00x103,00						
Ihc/Case ve Mercedes-Benz ile Ortak Motor							
	K=150,00 L=258,00 H+F=10,10+1,00 D=164,00	WF		O-Ring/Seal 55-50510-000 1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00	51-05684-000 52-05684-000	71-07026-000 72-07026-000	

	Type		B 	C 		
						

130,000

OM 942.900 / 910-912 / 925 / 930 / 960 / 967 / 970 / 980 / 990 Euro2 / 3 D 1998 8 Cyl 15928cc 370-380kW (503-516ps)






	11-02732-000 CH 78,550 B- 16,250 BØ 92,900 TL 123,550	AP YS PDB	91-09710-000 1 3,000  CR 2 3,000  CR 3 4,000  CR	+0,27/+0,61	Ø 130,000	31-04732-000
	52,00x103,00					
Ihc/Case ve Merdedes-Benz ile Ortak Motor						

	K=150,00 L=258,00 H+F=10,10+1,00 D=164,00	WF-PH		O-Ring/Seal 55-50510-000 1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00	51-05674-000 52-05674-000	71-08746-000 72-08746-000
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	K=150,00 L=258,00 H+F=10,10+1,00 D=164,00	WF		O-Ring/Seal 55-50510-000 1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00	51-05684-000 52-05684-000	71-08732-000 72-08732-000
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130,000

Strok Boyu 0,30mm Kisa Piston / Stroke Length 0,30mm Shorter Piston Cyl cc kW (ps)

	11-02732-002 CH 78,250 B- 16,250 BØ 92,900 TL 123,250	AP YS PDB CH -0,30 mm	91-09710-000 1 3,000  CR 2 3,000  CR 3 4,000  CR		Ø 130,000	31-04732-002
	52,00x103,00					
Ihc/Case ve Merdedes-Benz ile Ortak Motor						

		Type					
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98,000

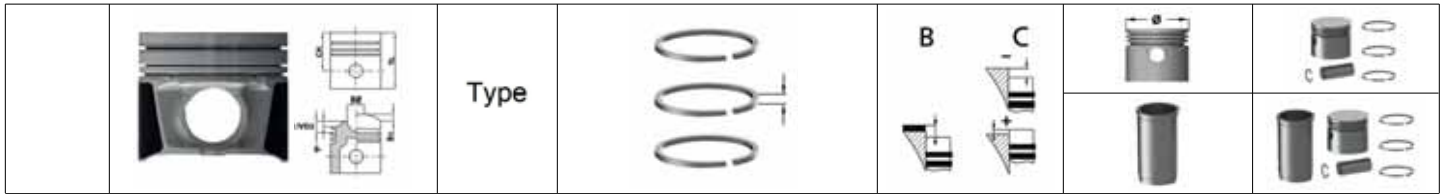
153310	D	1964	1967
153510	D	1964	1967
710	D	1964	1967

	11-01500-000 CH 57,277 B- 16,510 BØ 59,000 TL 99,220 30,17x80,00		91-09500-000 1 2,385 CR 2 2,385 P 3 5,000 CR		Ø 98,000	31-03500-000
	K=107,60 L=197,00 H+F=6,05+0,75 D=122,96	WF			51-05500-000	71-07500-000
	K=107,60 L=197,00 H+F=6,05+0,75 D=122,96	WF			51-05504-000	71-07069-000

102,000

3164 DL 03	D	3 Cyl	2690cc	26-38kW	(35-51ps)
4219 DL 03	D	4 Cyl	3590cc	50kW	(68ps)
6329 DL 03	D	6 Cyl	5380cc	63-68kW	(86-92ps)

	11-01495-000 CH 66,300 B- 21,500 BØ 54,000 TL 112,000 34,93x84,10		91-09502-000 1 3,170 MoP 2 2,385 P 3 5,000 CrP		Ø 102,000	31-03495-000
	K=110,97 L=197,00 H+F=6,05+0,75 D=125,00	WF		O-Ring/Seal 55-50905-000 1 NBR 104,00x110,60x3,30 1 S 110,50x3,50 1 VI 110,50x3,50	51-05501-000 52-05501-000	71-07455-000 72-07455-000
	K=110,97 L=197,00 H+F=6,05+0,75 D=125,00	WF			51-05502-000	



102,000


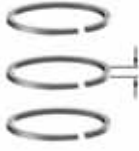
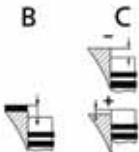

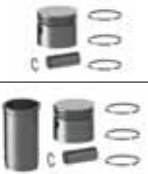
3164 DL 01, JD 164	D	3 Cyl	2696cc	41kW	(50ps)
4219 DL 01	D	4 Cyl	3588cc	53kW	(72ps)
6329 DL 01, JD 329	D 1968 1973	6 Cyl	5395cc	66kW	(90ps)

<p>11-01501-000 CH 57,300 B- 16,500 BØ 58,500 TL 103,190</p> <p>30,17x84,80</p>		<p>91-09502-000</p> <p>1 3,170 MoP 2 2,385 P 3 5,000 CrP</p>	-0,70/0	Ø 102,000	31-03501-000
<p>K=110,97 L=197,00 H+F=6,05+0,75 D=125,00</p>	WF		O-Ring/Seal 55-50905-000 1 NBR 104,00x110,60x3,30 1 S 110,50x3,50 1 VI 110,50x3,50	51-05501-000 52-05501-000	71-07501-000 72-07501-000
<p>K=110,97 L=197,00 H+F=6,05+0,75 D=125,00</p>	WF			51-05502-000	71-07104-000

102,000







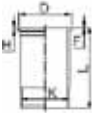
3164 DL 03	D	3 Cyl	2690cc	26-38kW	(35-51ps)
4219 DL 03	D	4 Cyl	3590cc	50kW	(68ps)
6329 DL 03	D	6 Cyl	5380cc	63-68kW	(86-92ps)

<p>11-01502-000 CH 66,300 B- 21,500 BØ 54,300 TL 112,000</p> <p>34,93x84,10</p>	AP	<p>91-09502-000</p> <p>1 3,170 MoP 2 2,385 P 3 5,000 CrP</p>	-0,70/0	Ø 102,000	31-03502-000
<p>K=110,97 L=197,00 H+F=6,05+0,75 D=125,00</p>	WF		O-Ring/Seal 55-50905-000 1 NBR 104,00x110,60x3,30 1 S 110,50x3,50 1 VI 110,50x3,50	51-05501-000 52-05501-000	71-07080-000 72-07080-000
<p>K=110,97 L=197,00 H+F=6,05+0,75 D=125,00</p>	WF			51-05502-000	71-07502-000

	Type				
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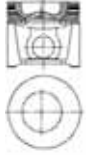






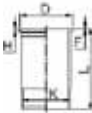
106,500

4045	D	4 Cyl	4500cc	60-123kW	(82-165ps)
6068	D	6 Cyl	6800cc	101-224kW	(135-300ps)

 	11-01010-000 CH 71,700 B- 25,500 BØ 57,000 TL 104,600  41,28x72,00	AP	91-09766-000 1 3,160  MoP 2 2,400  P 3 3,500  CrP		Ø 106,500	31-03010-000
	K=115,70 L=219,40 H+F=6,05+0,70 D=125,80	WF			51-05510-000	71-08506-000

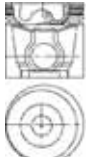





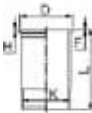
106,500

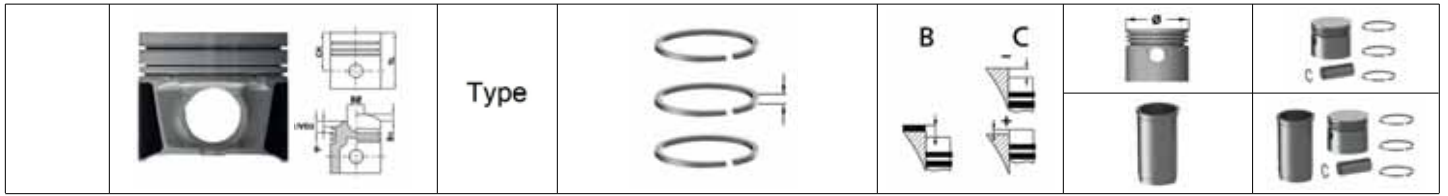
3029T	D	3 Cyl	2938cc	48-53kW	(64-71ps)
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 	11-01489-000 CH 66,300 B- 18,920 BØ 58,500 TL 95,500  32,00x80,00	AP	91-09492-000 1 2,500  MoP 2 2,385  P 3 3,500  CrP		Ø 106,500	31-03489-000
	K=115,71 L=197,00 H+F=6,05+0,80 D=126,00	WF		O-Ring/Seal 55-50903-000 1 FPM 117,00x3,50 1 MVQ 117,07x3,53 1 NBR 99,00x2,30x3,80	51-05503-000 52-05503-000	71-07489-000 72-07489-000
	K=115,71 L=197,00 H+F=6,05+0,80 D=126,00	WF		O-Ring/Seal 55-50904-000 1 FPM 117,00x3,50 1 S 117,00x3,50 1 NBR 99,00x2,30	51-05508-000 52-05508-000	71-07488-000 72-07488-000

106,500

4045 D/T (4045DF150)	D 1997	4 Cyl	4482cc	63kW	(85ps)
6068 DL050	D 1997	6 Cyl	6786cc	93kW	(125ps)

 	11-01492-000 CH 71,700 B- 23,800 BØ 57,400 TL 100,600  34,93x71,60	AP	91-09492-000 1 2,500  MoP 2 2,385  P 3 3,500  CrP	0/0,15	Ø 106,500	31-03492-000
	K=115,70 L=219,40 H+F=6,05+0,70 D=125,80	WF			51-05510-000	71-07492-000



106,500

3.179T	D	3 Cyl	2938cc	59kW	(79ps)
4.039T	D	4 Cyl	3920cc	82kW	(110ps)
4.239A	D	4 Cyl	3920cc	87kW	(117ps)
6.059T	D 1997	6 Cyl	5878cc	123kW	(165ps)
6.359A	D 1997	6 Cyl	5878cc	131kW	(176ps)

<p>11-01494-000 CH 66,300 B- 18,800 BØ 58,400 TL 112,000</p> <p>41,27x84,00</p>	AP	<p>91-09503-000</p> <p>1 3,160 MoP 2 2,385 P 3 3,465 CrP</p>	+0,14/+0,20	Ø 106,500	31-03494-000
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<p>K=115,71 L=197,00 H+F=6,05+0,80 D=126,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50903-000</p> <p>1 FPM 117,00x3,50 1 MVQ 117,07x3,53 1 NBR 99,00x2,30x3,80</p>	<p>51-05503-000 52-05503-000</p>	<p>71-07494-000 72-07494-000</p>
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<p>K=115,71 L=197,00 H+F=6,05+0,80 D=126,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50904-000</p> <p>1 FPM 117,00x3,50 1 S 117,00x3,50 1 NBR 99,00x2,30</p>	<p>51-05508-000 52-05508-000</p>	<p>71-07070-000 72-07070-000</p>
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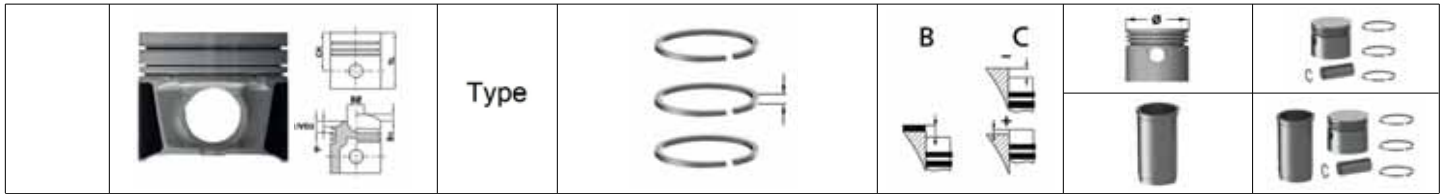
106,500

3.179 DL-01	D 1975 1986	3 Cyl	2938cc	41kW	(56ps)
4.039D	D	4 Cyl	3920cc	60kW	(80ps)
6.059D	D	6 Cyl	5878cc	89kW	(120ps)

<p>11-01496-000 CH 66,300 B- 18,920 BØ 58,500 TL 112,000</p> <p>34,93x84,10</p>	AP	<p>91-09503-000</p> <p>1 3,160 MoP 2 2,385 P 3 3,465 CrP</p>		Ø 106,500	31-03496-000
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<p>K=115,71 L=197,00 H+F=6,05+0,80 D=126,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50903-000</p> <p>1 FPM 117,00x3,50 1 MVQ 117,07x3,53 1 NBR 99,00x2,30x3,80</p>	<p>51-05503-000 52-05503-000</p>	<p>71-07496-000 72-07496-000</p>
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<p>K=115,71 L=197,00 H+F=6,05+0,80 D=126,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50904-000</p> <p>1 FPM 117,00x3,50 1 S 117,00x3,50 1 NBR 99,00x2,30</p>	<p>51-05508-000 52-05508-000</p>	<p>71-07498-000 72-07498-000</p>
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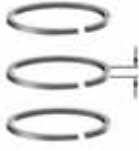
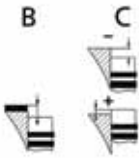



106,500							
3239 DL O1		D	1973	3 Cyl	2938cc	41kW	(56ps)
4239 DL O1		D	1972 1979	4 Cyl	3918cc	55kW	(75ps)
6329 DL O3		D	1973	6 Cyl	5395cc	63-68kW	(86-92ps)
6359 DL O1		D	1973	6 Cyl	5876cc	82kW	(112ps)

<p>11-01497-000 CH 66,420 B- 20,900 BØ 58,500 TL 112,000</p> <p>34,93x84,10</p>			<p>91-09503-000</p> <p>1 3,160 MoP 2 2,385 P 3 3,465 CrP</p>	+0,10/+0,30	Ø 106,500	<p>31-03497-000</p>






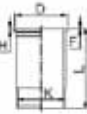
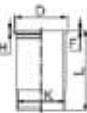
106,500							
3.239 D		D		3 Cyl	2938cc	41kW	(56ps)
4.239 DL-01		D	1972 1979	4 Cyl	3920cc	46-55kW	(63-75ps)
4.239 DL-03		D	1979 1986	4 Cyl	3920cc	46-55kW	(62-75ps)
6.359 D-02		D	1975	6 Cyl	5878cc	66kW	(90ps)
6.359 DL-02		D		6 Cyl	5878cc	71kW	(97ps)
6.359 TZ-02		D	1975	6 Cyl	5878cc	83kW	(113ps)

<p>11-01503-000 CH 66,420 B- 18,500 BØ 58,500 TL 112,000</p> <p>34,93x84,10</p>		AP	<p>91-09503-000</p> <p>1 3,160 MoP 2 2,385 P 3 3,465 CrP</p>	+0,10/+0,30	Ø 106,500	<p>31-03503-000</p>
<p>K=115,71 L=197,00 H+F=6,05+0,80 D=126,00</p>		WF		<p>O-Ring/Seal 55-50904-000 1 FPM 117,00x3,50 1 S 117,00x3,50 1 NBR 99,00x2,30</p>	<p>51-05508-000 52-05508-000</p>	<p>71-08503-000 72-08503-000</p>

	Type			
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


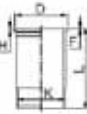
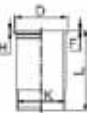
106,500

4045TL001-003-004	D	1994	4 Cyl	3920cc	73kW	(100ps)
6068 T / 6068TRW01-02	D	1994	6 Cyl	6786cc	96kW	(130ps)

	11-01504-000 CH 71,700 B- 22,500 BØ 60,000 TL 124,500	AP	91-09503-000 1 3,160  MoP 2 2,385  P 3 3,465  CrP		Ø 106,500	31-03504-000
	41,27x84,00					
	K=115,71 L=197,00 H+F=6,05+0,80 D=126,00	WF		O-Ring/Seal 55-50903-000 1 FPM 117,00x3,50 1 MVQ 117,07x3,53 1 NBR 99,00x2,30x3,80	51-05503-000 52-05503-000	71-07504-000 72-07504-000
	K=115,71 L=197,00 H+F=6,05+0,80 D=126,00	WF		O-Ring/Seal 55-50904-000 1 FPM 117,00x3,50 1 S 117,00x3,50 1 NBR 99,00x2,30	51-05508-000 52-05508-000	71-07558-000 72-07558-000

106,500

4.239TL-02	D	1979	1986	4 Cyl	3920cc	60kW	(82ps)
4239	D	1979	1986	4 Cyl	3920cc	67kW	(91ps)
6.359T	D			6 Cyl	5878cc	82-102kW	(112-139ps)

	11-01505-000 CH 66,420 B- 19,650 BØ 58,500 TL 112,000	AP	91-09503-000 1 3,160  MoP 2 2,385  P 3 3,465  CrP		Ø 106,500	31-03505-000
	41,27x84,00					
	K=115,71 L=197,00 H+F=6,05+0,80 D=126,00	WF		O-Ring/Seal 55-50903-000 1 FPM 117,00x3,50 1 MVQ 117,07x3,53 1 NBR 99,00x2,30x3,80	51-05503-000 52-05503-000	71-07505-000 72-07505-000
	K=115,71 L=197,00 H+F=6,05+0,80 D=126,00	WF		O-Ring/Seal 55-50904-000 1 FPM 117,00x3,50 1 S 117,00x3,50 1 NBR 99,00x2,30	51-05508-000 52-05508-000	71-07060-000 72-07060-000

		Type				
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106,500

4045TL001-003-004	D	4 Cyl	3920cc	73kW	(100ps)
6068 T / 6068TRW01-02	D	6 Cyl	6786cc	96kW	(130ps)

	11-02985-000 CH 71,690 B- 22,020 BØ 60,210 TL 120,000	AP	91-09503-000 1 3,160 MoP 2 2,385 P 3 3,465 CrP		Ø 106,500	31-04985-000
	41,27x84,50					
	K=115,70 L=219,40 H+F=6,05+0,70 D=125,80	WF			51-05510-000	71-08985-000

106,500


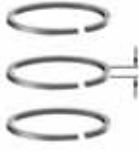
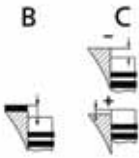

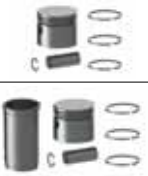
4045 TF275 Teire II	D	4 Cyl	4524cc	84kW	(113ps)
6068 T 414 CID (6068TP054)	D	6 Cyl	6786cc	116-168kW	(154-225ps)

	11-02986-000 CH 71,680 B- 25,500 BØ 56,930 TL 100,680	AP	91-09503-000 1 3,160 MoP 2 2,385 P 3 3,465 CrP	0.07-0.25	Ø 106,500	31-04986-000
	34,94x70,15					
	K=115,71 L=218,50 H+F=6,05+0,85 D=126,00	WF			51-05509-000	71-08504-000

107,950

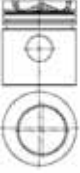




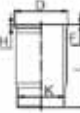
6404 D	D	6 Cyl	5878cc	272-295kW	(370-400ps)
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	11-01507-000 CH 69,900 B- 18,000 BØ 63,500 TL 124,400	AP	91-09507-000 1 3,170 CrP 2 2,385 CrP 3 6,350 CrP		Ø 107,950	31-03507-000
	38,10x85,20					
	K=117,50 L=231,50 H+F=6,56+0,80 D=131,53	WF			51-05505-000	71-07507-000

	Type				
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107,950

4270 D	D	4 Cyl	4400cc	KW	(ps)
6404	D	6 Cyl	5878cc	KW	(ps)

 11-01508-000 CH 69,900 B- 15,000 BØ 68,800 TL 124,250  38,10x85,20	AP	91-09507-000 1 3,170  CrP 2 2,385  CrP 3 6,350  CrP		Ø 107,950	31-03508-000
 K=117,50 L=231,50 H+F=6,56+0,80 D=131,53	WF			51-05505-000	71-07508-000

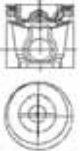




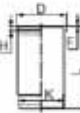
107,950


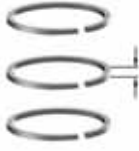
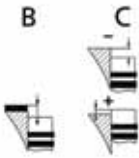








6404D	D	6 Cyl	5878cc		
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 11-01509-000 CH 70,040 B- 18,700 BØ 63,500 TL 124,750  38,10x85,50	AP	91-09509-000 1 3,175  CR 2 2,385  CR 3 4,747  CR		Ø 107,950	31-03509-000
 K=117,50 L=231,50 H+F=6,56+0,80 D=131,53	WF			51-05505-000	71-07509-000

115,900






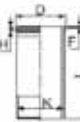
6081 Teire	D	1996	6 Cyl	8120cc	
6081HRW01-17-26-27-28-35-36-37-38-40	D	1996	6 Cyl	8120cc	

 11-02987-000 CH 66,500 B- 16,000 BØ 73,000 TL 111,500  47,61x91,45	DAP	91-09508-000 1 3,900  MoP 2 3,200  P 3 4,000  NT St		Ø 115,888	31-04987-000
 K=125,10 L=228,00 H+F=12,05+1,20 D=135,10	WF			51-05564-000	71-08505-000

		Type		 B	 C		
							







120,000

740.50-360 Euro1	D	8 Cyl	10850cc	kW	(ps)
740.51-320 Euro1	D	8 Cyl	10850cc	kW	(ps)

	11-02400-000 CH 71,000 VD1 2,700 B- 21,700 BØ 70,000 TL 117,800	AP	91-09240-000 1 3,500  CR 2 3,000  CR 3 4,000  CR		Ø 120,000	31-04400-000
	45,00x95,00					
	K=134,00 L=221,00 H+F=10,28+1,20 D=146,00	WF			51-05574-000	71-08400-000







120,000


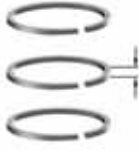




VMotor740	D	8 Cyl	10850cc		
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	11-02430-000 CH 75,700 VD1 2,700 B- 24,800 BØ 60,000 TL 123,000	AP	91-09430-000 1 3,000  CrP 2 3,000  CrP 3 5,000  CrP		Ø 120,000	31-04430-000
	45,00x95,00					
	K=134,00 L=224,00 H+F=10,30+1,15 D=145,95	WF			51-05507-000	71-08430-000

120,000





740.10	D	8 Cyl	10850cc	154kW	(210ps)
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	11-02431-000 CH 75,700 VD1 2,700 B- 26,400 BØ 60,000 TL 123,000	AP	91-09430-000 1 3,000  CrP 2 3,000  CrP 3 5,000  CrP		Ø 120,000	31-04431-000
	45,00x95,00					
	K=134,00 L=224,00 H+F=10,30+1,15 D=145,95	WF			51-05507-000	71-08431-000

	Type		B	C		
						





82,000

V1702	D	4 Cyl	cc	kW	(ps)
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	11-01007-000 CH 43,450 TL 80,000	CP	91-09580-000 1 2,500  CrP 2 1,980  P 3 5,000  CrP	Ø 82,000	31-03007-000
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83,000

V2003 V2003-DI	D	4 Cyl			
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	11-01005-000 CH 43,450 B- 15,950 BØ 38,000 TL 79,900	CP	91-09576-000 1 2,000  NT 2 1,980  CrP 3 4,000  CrP	Ø 83,000	31-03005-000
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83,000

V2003T	D	4 Cyl			
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	11-01015-000 CH 43,450 VD1 1,150 VD2 1,850 B- 2,000 TL 79,900	HA	91-09684-000 1 2,000  NT 2 1,980  CrP 3 5,000  CrP	Ø 83,000	31-03015-000
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87,000


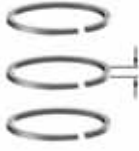
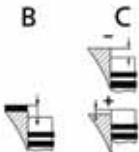

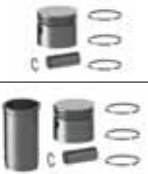



V2203-M-DI	D	4 Cyl			
V2203-M-DI-E2B	D	4 Cyl			
V2203-M-DI-E2B-BC-1	D	4 Cyl			
V2203-M-DI-E2B-BC-3	D	4 Cyl			
V2403-M-DI	D	4 Cyl			

	11-01004-000 CH 43,450 B- 16,700 BØ 40,000 TL 80,000	CP	91-09575-000 1 2,000  P 2 1,980  P 3 4,000  CR	Ø 87,000	31-03004-000
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87,000

V2203IDI	D	4 Cyl			
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	11-01006-000 CH 43,450 VD1 1,000 B- 1,500 TL 80,000	CP	91-09579-000 1 2,500  CrP 2 1,980  P 3 5,000  CrP	Ø 87,000 Ø 87,500	31-03006-000 31-03006-050
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


	Type		 		
					

87,000

ENDUSTRIYEL ENGINE

D

4 Cyl





	11-01008-000 CH 39,150 B- 16,250 BØ 45,300 TL 80,000	AP	91-09581-000 1 2,000  P 2 1,480  CrP 3 3,000  CR		Ø 87,000	31-03008-000
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87,000

ENDUSTRIYEL ENGINE

D

4 Cyl




	11-01009-000 CH 43,500 B- 16,500 BØ 42,000 TL 80,000	AP CP	91-09637-000 1 2,000  P 2 1,980  CrP 3 2,500  CR		Ø 87,000	31-03009-000
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87,000

V2203 / CFP-25

B

4 Cyl





 	11-01094-000 CH 43,400 VD1 1,400 VD2 1,600 TL 80,000	CP	1 2,000 2 2,000 3 5,000		Ø 87,000	31-03094-000
	25,00x64,00					

98,000

V3300T

D

4 Cyl





	11-01014-000 CH 46,600 B- 18,000 BØ 50,000 TL 87,600	AP	91-09683-000 1 2,000  NT 2 1,980  CrP 3 3,000  NT		Ø 98,000	31-03014-000
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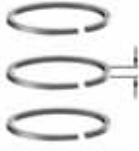
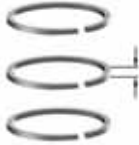




100,000

V3800 V3800T V3800-DI-T

D

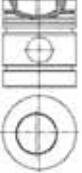






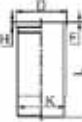
4 Cyl

	11-01013-000 CH 44,000 B- 18,200 BØ 57,000 TL 85,000	AP	91-09638-000 1 2,000  NT 2 1,980  CrP 3 3,000  CR		Ø 100,000	31-03013-000
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		Type		 		
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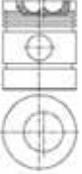






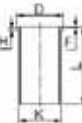
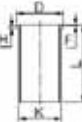
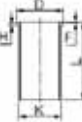

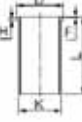
95,000


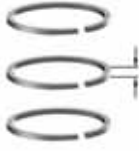
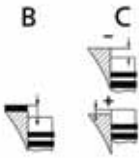


3.4T	D	4 Cyl
3.4TD	D	4 Cyl
3DL	D	3 Cyl

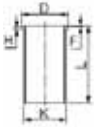
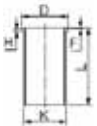
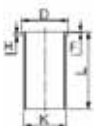
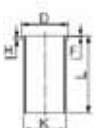

	<p>11-02410-000 CH 70,700 B- 23,500 BØ 54,000 TL 121,500</p>  34,93x79,30		<p>91-09410-000 1 3,947  CR 2 2,385  3 2,385  4 6,350  CR 5 6,350  P</p>		Ø 95,000	31-04410-000
	<p>K=106,35 L=222,00 H+F=11,17+0,90 D=114,20</p>	WF-PH			51-05230-000	

98,480

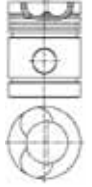






6354	D 1961	4 Cyl	5800cc
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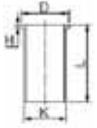
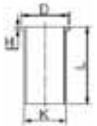
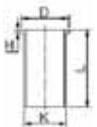
	<p>11-01840-000 CH 70,100 B- 25,700 BØ 54,000 TL 120,700</p>  34,93x84,10		<p>91-09863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP 5 6,350  P</p>		Ø 98,480	31-03840-000
Ihc/Case, Leyland, Massey-Ferguson ve Perkins ile Ortak Motor						
	<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			51-35844-000	
	<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			51-35844-000	71-07840-000
	<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00			51-35844-100	
	<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS			51-65840-000	
	<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25			51-65840-025	

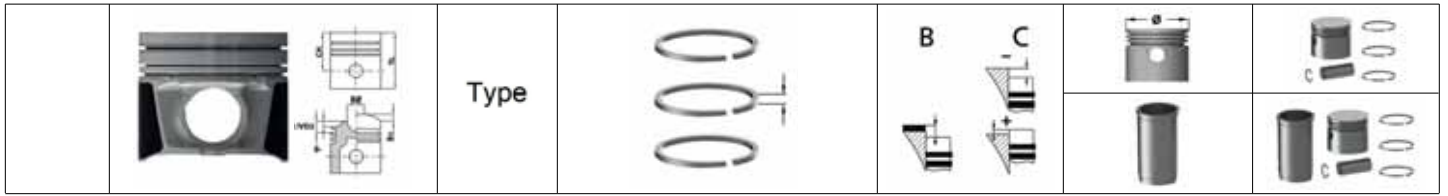
	Type				
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	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250
	K=103,28 L=229,00 H+F= +	DS			51-65845-000

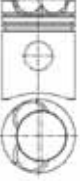





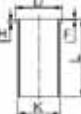
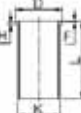
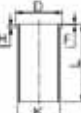
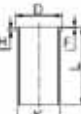
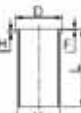
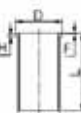
100,610
0.350 D 1952 6 Cyl 5760cc 76kW (104ps)

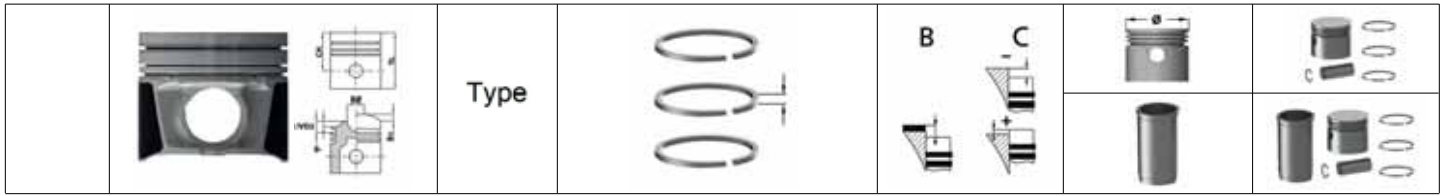
	11-01385-000 CH 81,900 VD1 2,400 B- 24,800 BØ 58,600 TL 132,700  33,03x87,90	AP	91-09385-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,335  P 5 6,335  P		Ø 100,610	31-03385-000
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	K=105,67 L=239,00 H=12,72 D=115,21	DF			51-35383-000	71-07385-000
	K=105,70 L=239,00 H=12,70 D=115,20	DS			51-65379-000	
	K=106,20 L=239,00 H=12,70 D=115,20	DS +0,50			51-65379-050	



107,210
 0400 / 401D D 4 Cyl 6540cc kW (ps)

 11-01560-000 CH 82,135 VD1 2,150 B- 19,250 BØ 71,400 TL 145,600  41,27x88,70	AP	91-09560-000 1 3,175  CR 2 2,385  P 3 4,763  P		Ø 107,210	31-03560-000
 K=111,35 L=239,50	DF			51-35560-000	71-07560-000
 K=111,28 L=240,00 H+F=4,50+1,00 D=112,75	DF			51-35562-000	71-07064-000
 K=111,78 L=240,00 H+F=5,00+1,00 D=113,30	DF +0,50			51-35562-050	
 K=112,55 L=240,00 H+F=6,00+1,00 D=114,05	DF +1,00			51-35562-100	
 K=111,36 L=240,00 H+F=4,50+0,80 D=113,05	DS			51-65561-000	
 K=111,80 L=240,00 H+F=4,50+0,80 D=113,50	DS +0,50			51-65561-050	
 K=112,35 L=240,00 H+F=4,50+0,80 D=114,00	DS +1,00			51-65561-100	









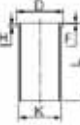
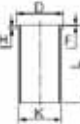
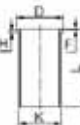
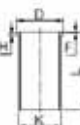
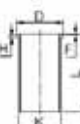
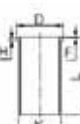
107,210


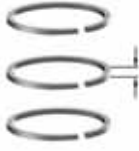







0.401

D 1961

6 Cyl








6540cc

	11-01561-000 CH 82,100 VD1 2,400 B- 19,500 BØ 71,000 TL 145,500	AP	91-09561-000 1 3,430  2 3,430  3 6,335  4 6,335 			Ø 107,210	31-03561-000
	K=111,35 L=239,50	DF				51-35560-000	71-07561-000
	K=111,28 L=240,00 H+F=4,50+1,00 D=112,75	DF				51-35562-000	71-07006-000
	K=111,78 L=240,00 H+F=5,00+1,00 D=113,30	DF +0,50				51-35562-050	
	K=112,55 L=240,00 H+F=6,00+1,00 D=114,05	DF +1,00				51-35562-100	
	K=111,36 L=240,00 H+F=4,50+0,80 D=113,05	DS				51-65561-000	
	K=111,80 L=240,00 H+F=4,50+0,80 D=113,50	DS +0,50				51-65561-050	
	K=112,35 L=240,00 H+F=4,50+0,80 D=114,00	DS +1,00				51-65561-100	

		Type		 		
						








88,900

SR1		D		1 Cyl	582cc	kW	(ps)
SR2		D		2 Cyl	1102cc	kW	(ps)
SR3		D		3 Cyl	1655cc	kW	(ps)
SR4		D	1961 1975	4 Cyl	cc	kW	(ps)

	11-01252-000 CH 65,150 B- 17,220 BØ 35,000 TL 103,180		91-09252-000 1 3,200  CR 2 2,381  P 3 2,381  P 4 3,968  CR 5 3,968  P		Ø 88,900 Ø 89,400 Ø 89,650 Ø 89,900 Ø 90,400	31-03252-000 31-03252-020 31-03252-030 31-03252-040 31-03252-060
	29,37x76,00					

95,250








ST1 / TS1		D		1 Cyl	630cc		
ST2 / TS2		D		2 Cyl	1270cc		
ST3 / TS3		D		3 Cyl	1900cc		


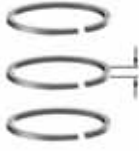
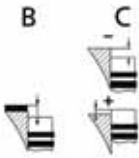




	11-01582-000 CH 65,150 B- 16,000 BØ 45,000 TL 103,180		91-09582-000 1 3,160  CR 2 2,385  P 3 2,385  P 4 4,747  CR 5 4,747  P		Ø 95,250 Ø 95,750 Ø 96,000 Ø 96,250	31-03582-000 31-03582-020 31-03582-030 31-03582-040
	33,34x79,20					

	K=104,70 L=185,80 H=148,83 D=114,30	AF				51-95567-000	71-07582-000
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101,650

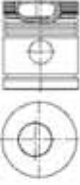






HA / HB		D		2 Cyl	2090cc		
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	11-01585-000 CH 73,070 B- 21,260 BØ 47,500 TL 127,000		91-09585-000 1 4,760  CR 2 3,175  P 3 3,175  P 4 4,747  CR 5 4,747  P		Ø 101,650 Ø 102,150 Ø 102,400 Ø 102,650 Ø 103,150	31-03585-000 31-03585-020 31-03585-030 31-03585-040 31-03585-060
	36,51x85,10					

	Type				
					

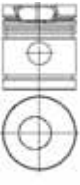






108,000

HR2	D	1967	2 Cyl	2090cc
HR3	D	1967	3 Cyl	3140cc

 <p>11-01253-000 CH 73,076 B- 21,720 BØ 51,000 TL 127,000</p>  39,69x88,72	<p>91-09253-000</p> <p>1 3,969  CrP 2 3,175  P 3 3,175  P 4 4,762  CR 5 4,762  P</p>	<p>Ø 108,000 Ø 108,500 Ø 108,750 Ø 109,000 Ø 109,500</p>	<p>31-03253-000 31-03253-020 31-03253-030 31-03253-040 31-03253-060</p>

108,000

HR2	D	1967	2 Cyl	2090cc	21kW	(30ps)
HR3	D	1967	3 Cyl	3140cc	32kW	(45ps)

 <p>11-01255-000 CH 73,076 B- 21,720 BØ 51,000 TL 127,000</p>  39,69x88,72	AP	<p>91-09253-000</p> <p>1 3,969  CrP 2 3,175  P 3 3,175  P 4 4,762  CR 5 4,762  P</p>	<p>Ø 108,000 Ø 108,500 Ø 109,000 Ø 109,500</p>	<p>31-03255-000 31-03255-020 31-03255-040 31-03255-060</p>

	Type				

72,000

Water Pump Engine	D	1997	1999	4 Cyl	1200cc	95kW	(129ps)
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	11-01241-000 CH 37,000 B- 4,100 TL 58,030	91-09241-000 1 2,000 CR 2 2,000 P 3 3,000 CR	Ø 72,000 Ø 72,500	31-03241-000 31-03241-050

75,000

Water Pump Engine	D			4 Cyl	cc	kW	(ps)
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	11-01243-000 CH 35,400 B- 4,200 TL 56,500	91-09243-000 1 2,000 CR 2 2,000 P 3 3,000 CR	Ø 75,000 Ø 75,500	31-03243-000 31-03243-050

85,000

LDA450	D			1 Cyl			
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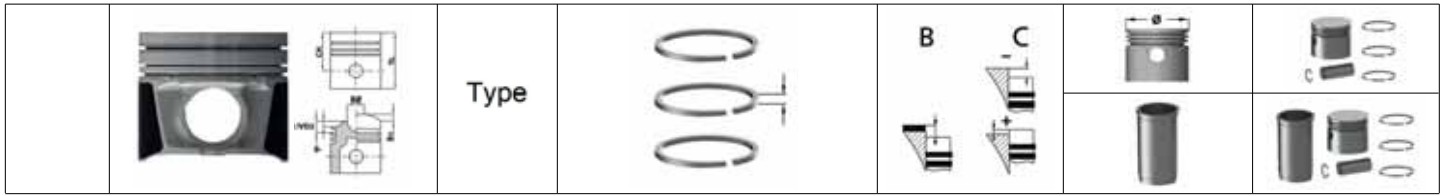
	11-01587-000 CH 52,000 B- 14,500 BØ 42,600 TL 90,000	91-09587-000 1 2,000 CrP 2 2,000 P 3 2,000 P 4 4,000 P	Ø 85,000 Ø 85,500 Ø 86,000	31-03587-000 31-03587-050 31-03587-100

85,000

LDA450	D			1 Cyl	510cc	8kW	(11ps)
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LDA451	D			1 Cyl	510cc	8kW	(11ps)
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	11-01589-000 CH 47,000 B- 16,600 BØ 43,000 TL 85,000	91-09587-000 1 2,000 CrP 2 2,000 P 3 2,000 P 4 4,000 P	Ø 85,000 Ø 85,500 Ø 86,000	31-03589-000 31-03589-050 31-03589-100



102,000
720.08 D 1973 1977 4 Cyl 3596cc 66kW (90ps)

	<p>11-01942-000 CH 75,580 B- 37,950 BØ 37,700 TL 120,600</p> <p> 36,00x86,00</p> <p>Man, Renault Trucks (RVI) ve Saviem ile Ortak Motor</p>	<p>AP</p>	<p>91-09942-000 1 3,000 MoP 2 2,500 P 3 5,000 CrP</p>		<p>Ø 102,000</p>	<p>31-03942-000</p>
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	<p>K=114,00 L=234,50 H+F=8,00+0,80 D=120,90</p>	<p>WF</p>			<p>51-05942-000</p>	<p>71-07942-000</p>
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	<p>K=114,00 L=218,00 H+F=8,00+0,70 D=120,70</p>	<p>WF-PH</p>			<p>51-05948-000</p>	<p>71-07076-000</p>
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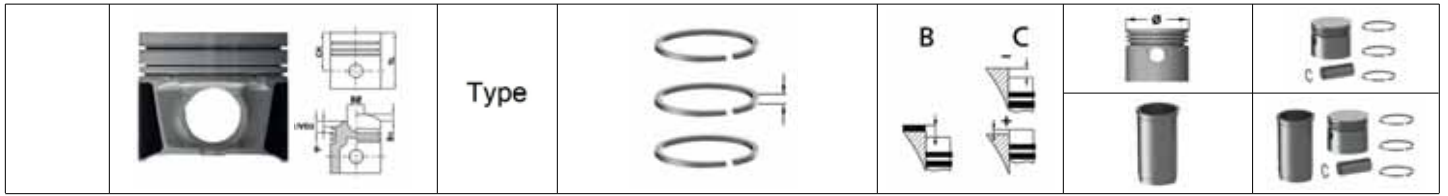
	<p>K=114,00 L=220,50 H+F=8,00+0,70 D=120,70</p>	<p>WF-PH</p>			<p>51-05949-000</p>	<p>71-07944-000</p>
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102,000
797 D 1971 1981 6 Cyl 5496cc 89-100kW (121-136ps)

	<p>11-01943-000 CH 77,820 B- 38,200 BØ 38,400 TL 123,820</p> <p> 36,00x86,00</p> <p>Man, Renault, Renault Trucks (RVI) ve Saviem ile Ortak Motor</p>	<p>AP</p>	<p>91-09942-000 1 3,000 MoP 2 2,500 P 3 5,000 CrP</p>		<p>Ø 102,000</p>	<p>31-03943-000</p>
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	<p>K=114,00 L=235,50 H+F=8,00+0,80 D=121,00</p>	<p>WF</p>			<p>51-05943-000</p>	<p>71-07943-000</p>
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	<p>K=114,00 L=234,00 H+F=8,00+0,80 D=122,50</p>	<p>WF</p>			<p>51-05944-000</p>	<p>71-07325-000</p>
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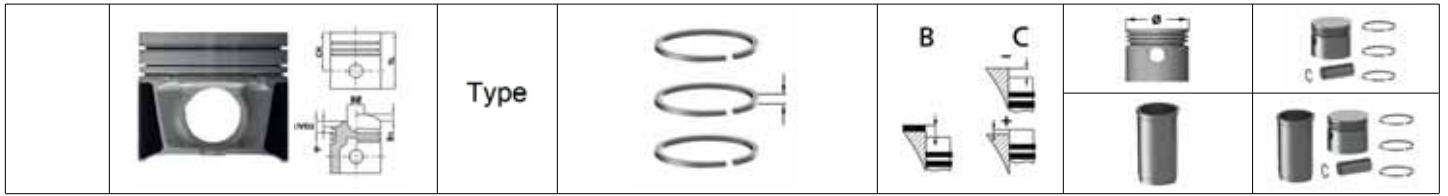


108,000

D 0846 HM 2	D	1969	1974	6 Cyl	7252cc	118kW	(160ps)
D 0846 HMN 2	D	1969	1977	6 Cyl	7252cc	118kW	(160ps)

<p>11-01591-000 CH 89,000 B- 40,000 BØ 43,300 TL 145,500</p> <p>42,00x90,00</p>	AP	<p>91-09591-000</p> <p>1 2,500 CrP</p> <p>2 2,500 P</p> <p>3 5,000 CrP</p>	+0,16/+0,46	Ø 108,000	31-03591-000

<p>K=112,98 L=254,00 H=5,05 D=117,85</p>	DF			51-35591-000	71-07591-000
<p>K=113,48 L=254,00 H=5,05 D=117,85</p>	DF +0,50			51-35591-050	
<p>K=113,98 L=254,00 H=5,05 D=117,85</p>	DF +1,00			51-35591-100	
<p>K=113,06 L=254,00 H=5,05 D=117,85</p>	DS			51-65580-000	
<p>K=113,50 L=254,00 H=5,05 D=117,85</p>	DS +0,50			51-65580-050	
<p>K=114,00 L=254,00 H=6,00 D=118,85</p>	DS +1,00			51-65580-100	

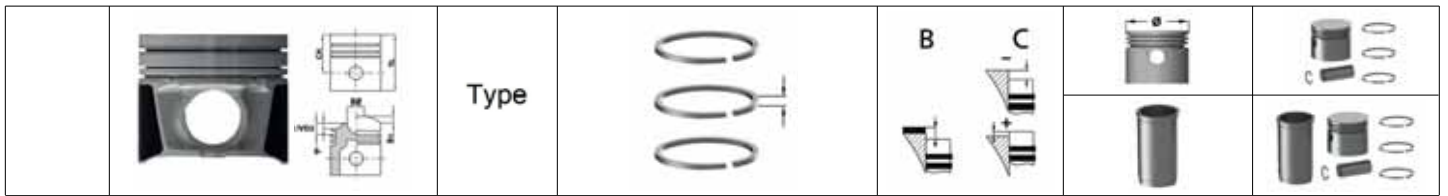


108,000

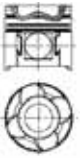









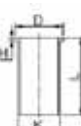
D0824 Euro1 LF01 / LF03-LF10 / LFL01 / LFL05 / LOH01-LOH03	D	1969	4 Cyl	4580cc	114kW	(155ps)
D0826 3 Euro 2 LUH08	D	1992	6 Cyl	6871cc	162kW	(220ps)
D0826 Euro 1 LF / LFL / LOH / LUH Series	D	1989	6 Cyl	6871cc	114-198kW	(155-270ps)
D0826 FG001 / FG002	D	1988 1994	6 Cyl	6871cc	169kW	(230ps)
D0826 LE10 / LOH12 / LUH213	D	1990	6 Cyl	6871cc	140-165kW	(190-224ps)
D0826 LF01-LF03 / LF05 / LFG02-LFG04 / LOH04-LOH05 / LUH04	D	1988	6 Cyl	6871cc	140-169kW	(190-230ps)
D0826 LF06	D	1988 1996	6 Cyl	6871cc	169kW	(230ps)
D0826FG001	D	1988 1994	6 Cyl	6871cc	169kW	(230ps)
D0826LF08 Euro1	D	1994 1996	6 Cyl	6871cc	169kW	(230ps)

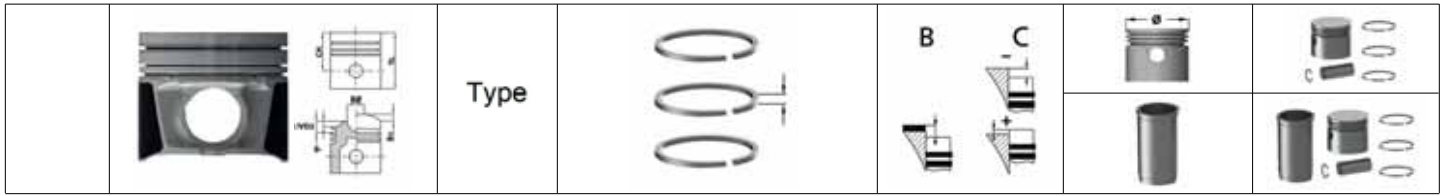
<p>11-01592-000 CH 73,000 VD1 1,700 B- 21,250 BØ 63,000 TL 113,000</p> <p>40,00x90,00</p>	AP	<p>91-09592-000</p> <p>1 3,000 CR</p> <p>2 2,500 CR</p> <p>3 4,000 CR</p>	+0,10/+0,40	<p>Ø 108,000</p> <p>Ø 108,500</p>	<p>31-03592-000</p> <p>31-03592-050</p>

<p>K=111,47 L=217,00 H=4,05 D=116,00</p>	DF			51-35592-000	71-07592-000
<p>K=111,72 L=217,00 H=4,05 D=116,00</p>	DF +0,25			51-35592-025	
<p>K=111,97 L=217,00 H=4,05 D=116,00</p>	DF +0,50			51-35592-050	
<p>K=112,47 L=217,00 H=5,00 D=117,00</p>	DF +1,00			51-35592-100	
<p>K=111,54 L=217,00 H=4,05 D=116,00</p>	DS			51-65596-000	
<p>K=112,04 L=217,00 H=4,05 D=116,00</p>	DS +0,50			51-65596-050	

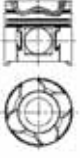









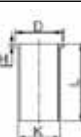


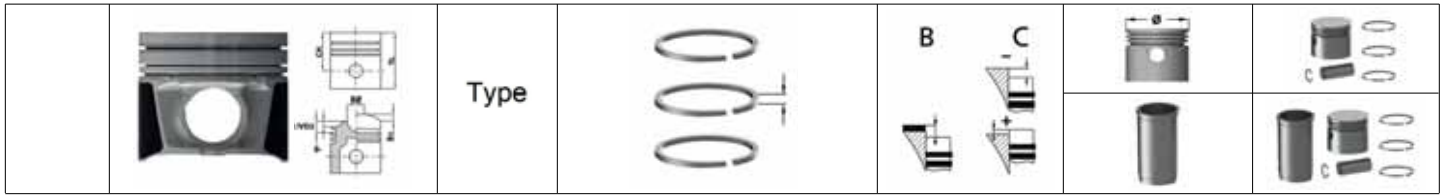
108,000	
D 0834 LFL 40-42 / LOH 50-51 Euro 3	D 2005 4 Cyl 4580cc 103-151kW (140-206ps)
D 0836 LOH 40-41 / LOH 50 Euro 3	D 2002 6 Cyl 6871cc 176-206kW (239-280ps)

 <p>11-02661-000 CH 63,900 VD1 1,700 B- 17,390 BØ 65,400 TL 103,000</p>  42,00x86,00	AP	<p>91-09761-000</p> <p>1 3,000  CK 2 2,500  P 3 3,000  CR</p>	<p>Ø 108,000 Ø 108,500</p>	<p>31-04661-000 31-04661-050</p>
 <p>K=111,47 L=217,00 H=4,05 D=116,00</p>	DF		51-35592-000	71-07607-000
 <p>K=111,72 L=217,00 H=4,05 D=116,00</p>	DF +0,25		51-35592-025	
 <p>K=111,97 L=217,00 H=4,05 D=116,00</p>	DF +0,50		51-35592-050	
 <p>K=112,47 L=217,00 H=5,00 D=117,00</p>	DF +1,00		51-35592-100	
 <p>K=111,54 L=217,00 H=4,05 D=116,00</p>	DS		51-65596-000	
 <p>K=112,04 L=217,00 H=4,05 D=116,00</p>	DS +0,50		51-65596-050	

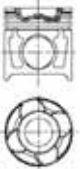







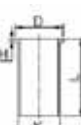




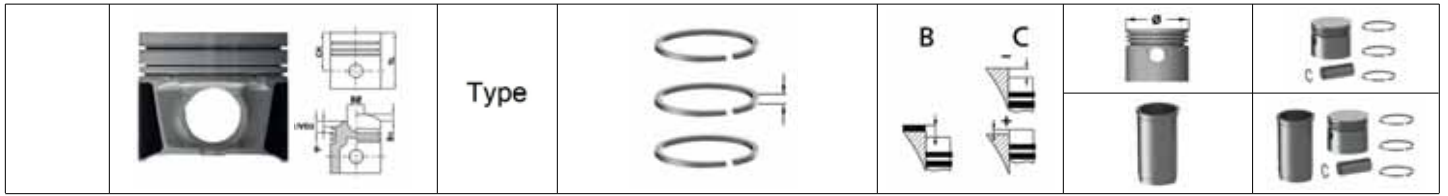
108,000	
D 0834 LFL 40-42 Euro 3	D 2005 4 Cyl 4580cc 103-151kW (140-205ps)
D 0836 LF 43-44 / LFL 40-41 / LFL 44 / LUH 40-41 / LUH 50 Euro 3	D 2002 6 Cyl 6871cc 176-240kW (240-326ps)
D 0836 LOH 40-41 / LOH 50 Euro 3	D 6 Cyl 6871cc 176-206kW (239-280ps)

 <p>11-02662-000 CH 63,900 VD1 1,700 B- 17,390 BØ 65,400 TL 103,000</p>  42,00x86,00	AP YS	<p>91-09761-000</p> 1 3,000  CK 2 2,500  P 3 3,000  CR		Ø 108,000 Ø 108,500	31-04662-000 31-04662-050
 <p>K=111,47 L=217,00 H=4,05 D=116,00</p>	DF			51-35592-000	71-07608-000
 <p>K=111,72 L=217,00 H=4,05 D=116,00</p>	DF +0,25			51-35592-025	
 <p>K=111,97 L=217,00 H=4,05 D=116,00</p>	DF +0,50			51-35592-050	
 <p>K=112,47 L=217,00 H=5,00 D=117,00</p>	DF +1,00			51-35592-100	
 <p>K=111,54 L=217,00 H=4,05 D=116,00</p>	DS			51-65596-000	
 <p>K=112,04 L=217,00 H=4,05 D=116,00</p>	DS +0,50			51-65596-050	

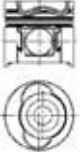







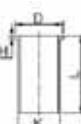
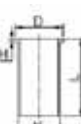



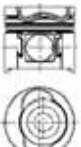




108,000						
D 0834 LFL 50-55 / 57 Euro 4	D	2006	4 Cyl	4580cc	110-151kW	(150-206ps)
D 0836 LFG 50 Euro 3	D		6 Cyl	6871cc	kW	(ps)
D 0836 LFL 50-55 / LOH 51-58 / LOH 62-63 Euro 4	D	2005	6 Cyl	6871cc	176-240kW	(240-326ps)
D 0836 LOH 60-61	D		6 Cyl	6871cc	184-213kW	(250-290ps)
D 0836 LOH 64-66 Euro 5	D		6 Cyl	6871cc	184-213kW	(250-290ps)


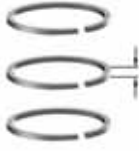
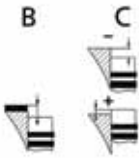

 <p>11-02663-000 CH 63,900 VD1 1,700 B- 17,390 BØ 65,000 TL 103,000</p>  44,00x88,00	AP YS	<p>91-09761-000</p> 1 3,000  CK 2 2,500  P 3 3,000  CR	Ø 108,000 Ø 108,500	31-04663-000 31-04663-050
 <p>K=111,47 L=217,00 H=4,05 D=116,00</p>	DF		51-35592-000	71-07609-000
 <p>K=111,72 L=217,00 H=4,05 D=116,00</p>	DF +0,25		51-35592-025	
 <p>K=111,97 L=217,00 H=4,05 D=116,00</p>	DF +0,50		51-35592-050	
 <p>K=112,47 L=217,00 H=5,00 D=117,00</p>	DF +1,00		51-35592-100	
 <p>K=111,54 L=217,00 H=4,05 D=116,00</p>	DS		51-65596-000	
 <p>K=112,04 L=217,00 H=4,05 D=116,00</p>	DS +0,50		51-65596-050	



108,000						
D 0834 LFL 01-04 / LFL 10-11 / LOH 01-03 Euro 3	D	1999	4 Cyl	4580cc	103-125kW	(140-170ps)
D 0836 LF 01-02 / LFL 01 / LFL 04 / LOH 01 Euro 2	D	1998	6 Cyl	6871cc	196-206kW	(266-280ps)
D 0836 LF 03-06 / LF 10 / LF 18 / LFL 02-03 / LFL 05-06 / LOH 02-03 / LUH 01-02 Euro 3	D	1999	6 Cyl	6871cc	162-206kW	(220-280ps)
D 0836 LF 40-42 Euro 3	D		6 Cyl	6871cc	173-228kW	(235-310ps)

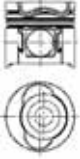




 11-02664-000 CH 63,900 VD1 1,700 B- 16,150 BØ 70,500 TL 103,000  42,00x86,00	AP	91-09761-000 1 3,000  CK 2 2,500  P 3 3,000  CR	+0,09/+0,39	Ø 108,000	31-04664-000
 K=111,47 L=217,00 H=4,05 D=116,00	DF			51-35592-000	71-07610-000
 K=111,72 L=217,00 H=4,05 D=116,00	DF +0,25			51-35592-025	
 K=111,97 L=217,00 H=4,05 D=116,00	DF +0,50			51-35592-050	
 K=112,47 L=217,00 H=5,00 D=117,00	DF +1,00			51-35592-100	
 K=111,54 L=217,00 H=4,05 D=116,00	DS			51-65596-000	
 K=112,04 L=217,00 H=4,05 D=116,00	DS +0,50			51-65596-050	

108,000							
Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston				Cyl	cc	kW	(ps)
 11-02664-001 CH 63,700 VD1 1,700 B- 16,150 BØ 70,500 TL 102,800  42,00x86,00	AP	91-09761-000 1 3,000  CK 2 2,500  P 3 3,000  CR	+0,09/+0,39	Ø 108,000	31-04664-001		

	Type			
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108,000

Strok Boyu 0,40mm Kisa Piston / Stroke Length 0,40mm Shorter Piston

 11-02664-002 CH 63,500 VD1 1,700 B- 16,150 BØ 70,500 TL 102,600  42,00x86,00	AP	91-09761-000 1 3,000  CK 2 2,500  P 3 3,000  CR	+0,09/+0,39	Ø 108,000	31-04664-002
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108,000

D 0834 LF 01-02-06 / LFL 68 / LFL 70 Euro5 / LFL71 Euro5	D
D 0836 LFL 66 / 67 / 68 / 69 / 70 / 71 Euro 5	D
D 0836 LOH 51-58 Euro 4	D
D 0836 LOH 60 / 62 Euro4	D
D 0836 LOH 66-68 / 70-73	D

 11-02666-000 CH 63,900 VD1 1,700 B- 18,470 BØ 65,000 TL 103,000  44,00x88,00	AP	91-09761-000 1 3,000  CK 2 2,500  P 3 3,000  CR		Ø 108,000	31-04666-000
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 K=111,47 L=217,00 H=4,05 D=116,00	DF			51-35592-000	71-07612-000
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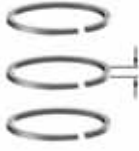
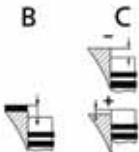

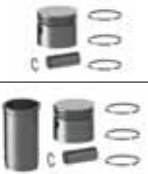
 K=111,72 L=217,00 H=4,05 D=116,00	DF +0,25			51-35592-025	
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 K=111,97 L=217,00 H=4,05 D=116,00	DF +0,50			51-35592-050	
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 K=112,47 L=217,00 H=5,00 D=117,00	DF +1,00			51-35592-100	
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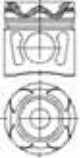




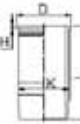
 K=111,54 L=217,00 H=4,05 D=116,00	DS			51-65596-000	
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 K=112,04 L=217,00 H=4,05 D=116,00	DS +0,50			51-65596-050	
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	Type				
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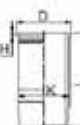
120,000

D2066 LF01-LF04 / LF06 / LF07 / LOH10-LOH12 Euro3	D	2004	6 Cyl	10520cc
D2066 LF11-LF20 / LF23 / LF24 / LF29-LF39 / LOH01-LOH06 Euro4	D	2004	6 Cyl	10520cc
D2066 LF21 / LF22 / LF25-LF28 / LF40-LF53 / LF57 / LF58 Euro5	D	2007	6 Cyl	10520cc

 11-01566-000 CH 76,800 VD1 2,000 B- 20,000 BØ 84,000 TL 123,300  52,00x96,00	AP YS	91-09573-000 1 3,500  CkP 2 3,000  CrP 3 4,000  CrP		Ø 120,000	31-03566-000
 K=139,50 L=260,00 H=8,07 D=150,00	WF-PH		O-Ring/Seal 55-50505-000 2 FPM 139,40x4,70	51-05605-000 52-05605-000	71-07566-000 72-07566-000






120,000

D2066 LF01-LF04 / LF06 / LF07 / LOH10 Euro3	D	2004	6 Cyl	10520cc	228-316kW (310-430ps)
D2066 LF11-LF14 / LF23 / LF24 / LF31-LF33 / LF35 / LF37 / LOH01-LOH04 / LUH11-LUH15 Euro4	D	2004	6 Cyl	10520cc	190-324kW (270-440ps)
D2066 LF21 / LF58 / LUH48 Euro5	D	2004	6 Cyl	10520cc	265-436kW (360-436ps)
D2066 LUH41 / LUH46 / LUH47 EEV	D	2007	6 Cyl	10520cc	206-235kW (280-320ps)

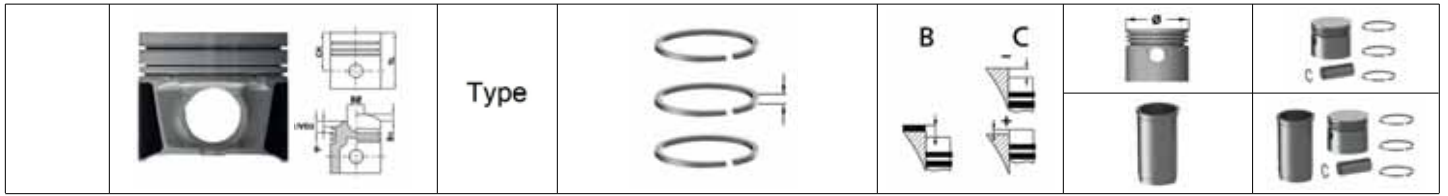
 11-01567-000 CH 76,800 VD1 2,000 B- 19,700 BØ 67,000 TL 123,300  52,00x96,00	AP YS	91-09573-000 1 3,500  CkP 2 3,000  CrP 3 4,000  CrP		Ø 120,000	31-03567-000
 K=139,50 L=260,00 H=8,07 D=150,00	WF-PH		O-Ring/Seal 55-50505-000 2 FPM 139,40x4,70	51-05605-000 52-05605-000	71-07567-000 72-07567-000

120,000

D2066 LF 25 Euro5	D	2007	6 Cyl	10518cc	324kW (440ps)
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 11-02667-000 CH 76,800 VD1 1,600 B- 19,700 BØ 70,000 TL 123,300  52,00x96,00	AP YS	91-09573-000 1 3,500  CkP 2 3,000  CrP 3 4,000  CrP		Ø 120,000	31-04667-000
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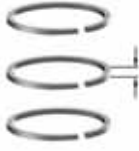
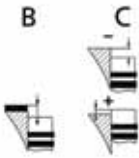





 K=139,50 L=260,00 H=8,07 D=150,00	WF-PH		O-Ring/Seal 55-50505-000 2 FPM 139,40x4,70	51-05605-000 52-05605-000	71-07606-000 72-07606-000
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121,000									
D2156 MT2			D	1966	1971	6 Cyl	10344cc	188kW	(256ps)
D2156 MTN1 / MTN5 / MTN6 / MTN8			D	1966	1978	6 Cyl	10344cc	184-188kW	(250-256ps)
D2156 MTNS			D	1974	1978	6 Cyl	10344cc	210kW	(285ps)
D2156 MTU			D	1966	1971	6 Cyl	10344cc	188kW	(256ps)
D2156 MTX			D	1966	1973	6 Cyl	10344cc	188kW	(256ps)

<p>11-01573-000 CH 94,000 VD1 2,400 B- 48,350 BØ 47,200 TL 162,000</p> <p>45,00x102,00</p>	AP	<p>91-09593-000</p> <p>1 3,500 CrP</p> <p>2 3,000 P</p> <p>3 3,000 P</p> <p>4 5,500 CrP</p>	+0,05/+0,35	Ø 121,000	31-03573-000
	HA				
Man ve Saviem ile Ortak Motor					

<p>K=125,98 L=287,00 H=8,00 D=131,80</p>	DF			51-35587-000	71-07573-000
<p>K=126,48 L=287,00 H=8,00 D=131,80</p>	DF +0,50			51-35587-050	
<p>K=126,98 L=287,00 H=8,00 D=131,80</p>	DF +1,00			51-35587-100	
<p>K=126,05 L=287,00 H=8,05 D=132,00</p>	DS			51-65593-000	
<p>K=126,55 L=287,00 H=8,05 D=132,00</p>	DS +0,50			51-65593-050	

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

121,000

D10TC Euro2

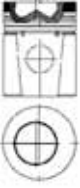








D 1997

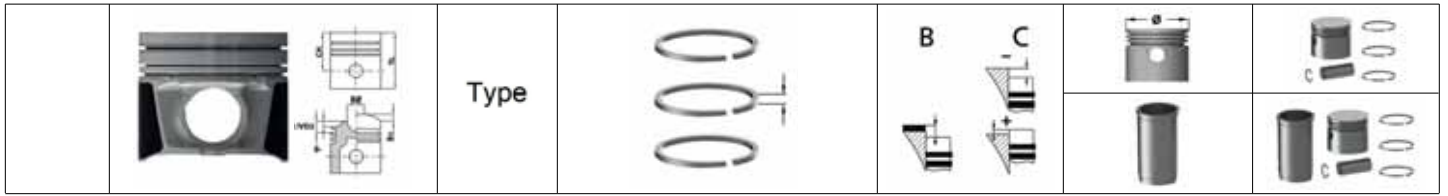
6 Cyl

10350cc

150kW

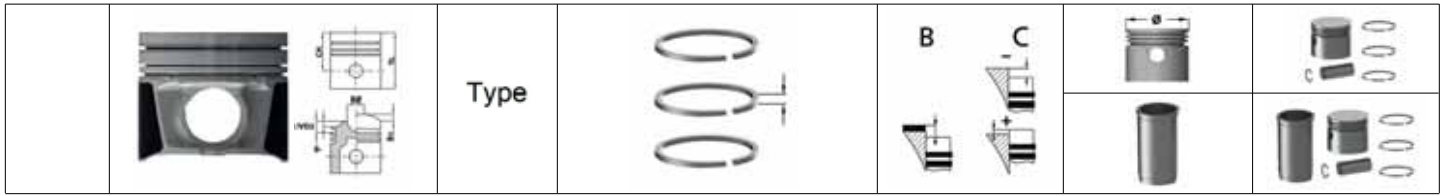
(204ps)

	<p>11-01580-000 CH 94,000 B- 24,900 BØ 69,000 TL 155,000</p>  <p>45,00x102,00</p>	<p>AP</p>	<p>91-09583-000 1 3,500  CR 2 2,000  CR 3 3,500  CR</p>		<p>Ø 121,000</p>	<p>31-03580-000</p>
	<p>K=125,98 L=287,00 H=8,06 D=131,80</p>	<p>DF</p>			<p>51-35588-000</p>	<p>71-07580-000</p>
	<p>K=126,08 L=287,00 H=8,06 D=131,80</p>	<p>DF +0,10</p>			<p>51-35588-010</p>	
	<p>K=126,48 L=287,00 H=8,06 D=131,80</p>	<p>DF +0,50</p>			<p>51-35588-050</p>	
	<p>K=126,99 L=287,00 H=8,26 D=131,80</p>	<p>DF +1,00</p>			<p>51-35588-100</p>	



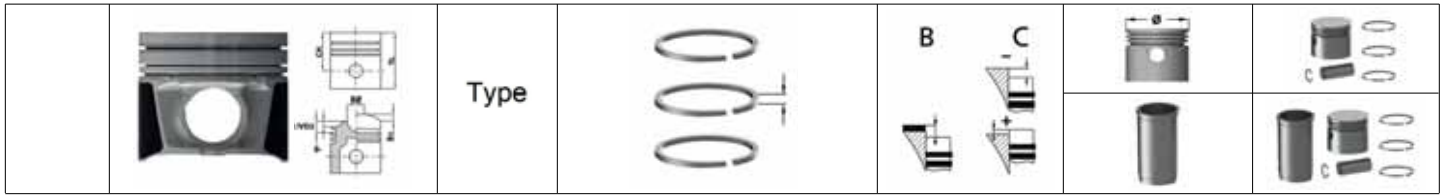
121,000
 D10UT150 Euro1 D 1995 6 Cyl 10350cc 150kW (204ps)

	<p>11-01583-000 CH 94,000 VD1 2,400 B- 28,000 BØ 73,400 TL 155,000</p> <p> 45,00x102,00</p>	<p>AP</p>	<p>91-09583-000 1 3,500 CR 2 2,000 CR 3 3,500 CR</p>		<p>Ø 121,000</p>	<p>31-03583-000</p>
	<p>K=125,98 L=287,00 H=8,00 D=131,80</p>	<p>DF</p>			<p>51-35587-000</p>	<p>71-07063-000</p>
	<p>K=126,48 L=287,00 H=8,00 D=131,80</p>	<p>DF +0,50</p>			<p>51-35587-050</p>	
	<p>K=126,98 L=287,00 H=8,00 D=131,80</p>	<p>DF +1,00</p>			<p>51-35587-100</p>	
	<p>K=125,98 L=287,00 H=8,06 D=131,80</p>	<p>DF</p>			<p>51-35588-000</p>	<p>71-07583-000</p>
	<p>K=126,08 L=287,00 H=8,06 D=131,80</p>	<p>DF +0,10</p>			<p>51-35588-010</p>	
	<p>K=126,48 L=287,00 H=8,06 D=131,80</p>	<p>DF +0,50</p>			<p>51-35588-050</p>	
	<p>K=126,99 L=287,00 H=8,26 D=131,80</p>	<p>DF +1,00</p>			<p>51-35588-100</p>	



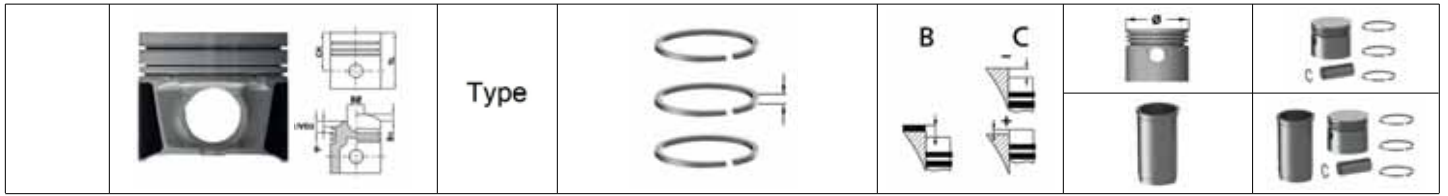
121,000							
D2156 6U		D	1969	6 Cyl	10344cc	141kW	(192ps)
D2156 HM2 / HM3 / HM9		D	1966	1975	6 Cyl	10344cc	141-169kW (192-230ps)
D2156 HMN3 / HMN8 / HMN9		D	1966	1975	6 Cyl	10344cc	141-159kW (192-216ps)
D2156 HNY / MGN / MNY		D	1966	1975	6 Cyl	10344cc	141-169kW (192-230ps)
D2156 MY		D	1971	1973	6 Cyl	10344cc	141-169kW (192-230ps)
D2156 MYN		D	1971	1973	6 Cyl	10344cc	141-169kW (192-230ps)

<p>11-01593-000 CH 94,000 B- 48,600 BØ 47,100 TL 162,000</p> <p> 45,00x102,00</p>	AP	<p>91-09593-000</p> <p>1 3,500 CrP</p> <p>2 3,000 P</p> <p>3 3,000 P</p> <p>4 5,500 CrP</p>			Ø 121,000	31-03593-000
Man ve Saviem ile Ortak Motor						
<p>K=125,98 L=287,00 H=8,00 D=131,80</p>	DF				51-35587-000	71-07593-000
<p>K=126,48 L=287,00 H=8,00 D=131,80</p>	DF +0,50				51-35587-050	
<p>K=126,98 L=287,00 H=8,00 D=131,80</p>	DF +1,00				51-35587-100	
<p>K=126,05 L=287,00 H=8,05 D=132,00</p>	DS				51-65593-000	
<p>K=126,55 L=287,00 H=8,05 D=132,00</p>	DS +0,50				51-65593-050	











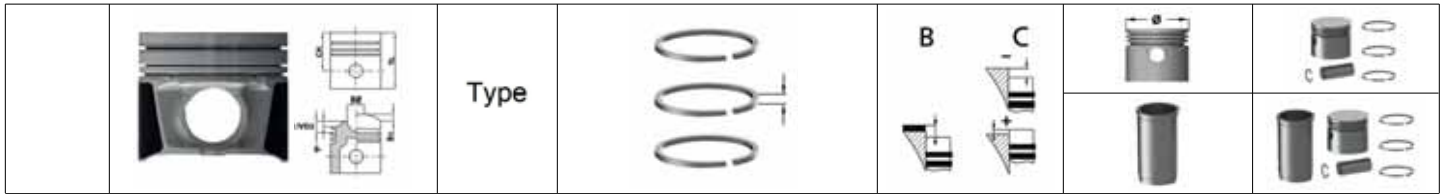
121,000							
D2156 6U			D	1969	6 Cyl	10344cc	141kW (192ps)
D2156 HM2 / HM3 / HM9			D	1966	1975	6 Cyl	10344cc 141-169kW (192-230ps)
D2156 HMN3 / HMN8 / HMN9			D	1966	1975	6 Cyl	10344cc 141-159kW (189-216ps)
D2156 HNY / MGN / MNY			D	1966	1975	6 Cyl	10344cc 141-169kW (192-230ps)
D2156 MY			D	1971	1973	6 Cyl	10344cc 141-169kW (192-230ps)
D2156 MYN			D	1971	1973	6 Cyl	10344cc 141-169kW (192-230ps)

<p>11-01600-000 CH 94,000 B- 48,600 BØ 47,000 TL 162,000</p> <p>45,00x102,00</p>	AP	<p>91-09593-000</p> <p>1 3,500 CrP</p> <p>2 3,000 P</p> <p>3 3,000 P</p> <p>4 5,500 CrP</p>	Ø 121,000	31-03600-000
	HA			
Man ve Saviem ile Ortak Motor				
<p>K=125,98 L=287,00 H=8,00 D=131,80</p>	DF		51-35587-000	71-07593-000
<p>K=126,48 L=287,00 H=8,00 D=131,80</p>	DF +0,50		51-35587-050	
<p>K=126,98 L=287,00 H=8,00 D=131,80</p>	DF +1,00		51-35587-100	
<p>K=126,05 L=287,00 H=8,05 D=132,00</p>	DS		51-65593-000	
<p>K=126,55 L=287,00 H=8,05 D=132,00</p>	DS +0,50		51-65593-050	



123,000									
D2356 HM6DK			D	1968	1974	6 Cyl	10690cc	173kW	(235ps)
D2356 HM6U / HM9 / HMHU-063			D	1968	1974	6 Cyl	10690cc	169kW	(230ps)
D2356 HMN2 / HMN5 / HMN9			D	1967	1974	6 Cyl	10690cc	169-173kW	(230-235ps)
D2356 M9			D	1968	1974	6 Cyl	10690cc	169kW	(230ps)

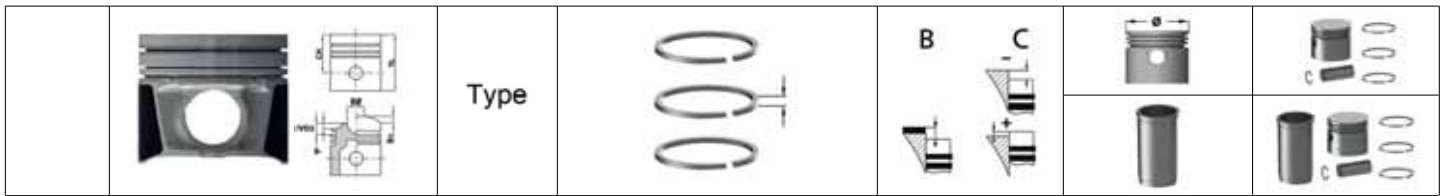
 <p>11-01572-000 CH 94,000 B- 50,500 BØ 48,500 TL 162,000</p>  45,00x102,00	<p>AP</p> <p>HA</p>	<p>91-09594-000</p> <p>1 3,500  CrP</p> <p>2 3,000  P</p> <p>3 3,000  P</p> <p>4 5,500  CrP</p>	+0,05/+0,35	Ø 123,000	31-03572-000
	<p>Man ve Saviem ile Ortak Motor</p>				
 <p>K=125,98 L=287,00 H=8,00 D=132,00</p>	DF			51-35594-000	71-07572-000
 <p>K=126,48 L=287,00 H=8,00 D=132,00</p>	DF +0,50			51-35594-050	



125,000

D2565 HM	D	1976	1985	5 Cyl	9510cc	92-141kW	(125-192ps)
D2565 M / MF / MFR / MH / MR / MUE / MUH / MUL	D	1975	1990	5 Cyl	9510cc	124-141kW	(168-192ps)
D2566 HM / MFO / MFR / MH / MHO / MUE / MXF	D	1976		6 Cyl	11407cc	177kW	(241ps)
D2566 M	D	1976	1993	6 Cyl	11407cc	125-177kW	(170-240ps)
D2566 ME	D	1976	1993	6 Cyl	11407cc	136-177kW	(185-240ps)
D2566 MF	D	1983	1989	6 Cyl	11407cc	162-177kW	(220-240ps)
D2566 MUH	D	1975	1986	6 Cyl	11407cc	129-177kW	(175-240ps)
D2566 MUL	D	1979	1980	6 Cyl	11407cc	130kW	(177ps)
D2566 MUM	D	1976	1988	6 Cyl	11407cc	147-177kW	(200-240ps)


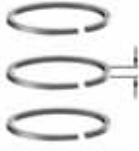






<p>11-01595-000 CH 89,870 B- 44,000 BØ 49,600 TL 141,870</p> <p>46,00x105,00</p>	AP	<p>91-09595-000</p> <p>1 3,000 CR 2 3,000 P 3 5,000 CR</p>		Ø 125,000	31-03595-000
<p>K=139,95 L=270,00 H+F=10,05+0,80 D=151,95</p>	WF-PH			51-05595-000	71-07595-000
<p>K=139,95 L=270,00 H+F=10,25+0,80 D=151,95</p>	WF-PH +0,20		O-Ring/Seal 55-50502-000 2 FPM 138,00x2,10 2 FPM 140,00x4,00	51-05595-020 52-05595-020	
<p>K=139,95 L=270,00 H+F=10,55+0,80 D=151,95</p>	WF-PH +0,50		O-Ring/Seal 55-50502-000 2 FPM 138,00x2,10 2 FPM 140,00x4,00	51-05595-050 52-05595-050	
<p>K=139,95 L=270,00 H+F=10,05+0,80 D=151,95</p>	WF-CR		O-Ring/Seal 55-50502-000 2 FPM 138,00x2,10 2 FPM 140,00x4,00	51-05603-000 52-05603-000	71-07603-000 72-07603-000



125,000

D2565 MK / MKUL / MT	D	1976	5 Cyl	9510cc	169kW	(230ps)
D2566 KUL / MTUM	D	1969	6 Cyl	11407cc	162-235kW	(220-320ps)
D2566 MFT	D	1976 1985	6 Cyl	11407cc	210-250kW	(286-340ps)
D2566 MK / MKF / MKUL / MTHO / MTUM	D	1977 1991	6 Cyl	11407cc	206-235kW	(280-320ps)
D2566 MKE	D	1976	6 Cyl	11407cc	235kW	(320ps)
D2566 MKUH	D	1980 1982	6 Cyl	11407cc	177-235kW	(240-320ps)
D2566 MLE	D	1976	6 Cyl	11407cc	210-250kW	(286-340ps)
D2566 MLUH	D	1985 1985	6 Cyl	11407cc	192kW	(261ps)
D2566 MLUM	D	1992 1993	6 Cyl	11407cc	222-229kW	(305-311ps)
D2566 MT / MTF / MTFG / MTH / MTU / MTUE	D	1976	6 Cyl	11407cc	206kW	(280ps)
D2566 MTE	D	1983 1991	6 Cyl	11407cc	147-240kW	(200-327ps)






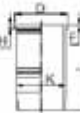
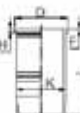
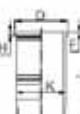
<p>11-01596-000 CH 89,800 VD1 1,700 B- 43,000 BØ 52,000 TL 141,800</p> <p>46,00x105,00</p>	AP YS	<p>91-09596-000</p> <p>1 3,500 CR 2 3,000 P 3 5,000 CR</p>	Ø 125,000	31-03596-000
<p>K=139,95 L=270,00 H+F=10,05+0,80 D=151,95</p>	WF-PH		51-05595-000	71-07596-000
<p>K=139,95 L=270,00 H+F=10,25+0,80 D=151,95</p>	WF-PH +0,20	O-Ring/Seal 55-50502-000 2 FPM 138,00x2,10 2 FPM 140,00x4,00	51-05595-020 52-05595-020	
<p>K=139,95 L=270,00 H+F=10,55+0,80 D=151,95</p>	WF-PH +0,50	O-Ring/Seal 55-50502-000 2 FPM 138,00x2,10 2 FPM 140,00x4,00	51-05595-050 52-05595-050	

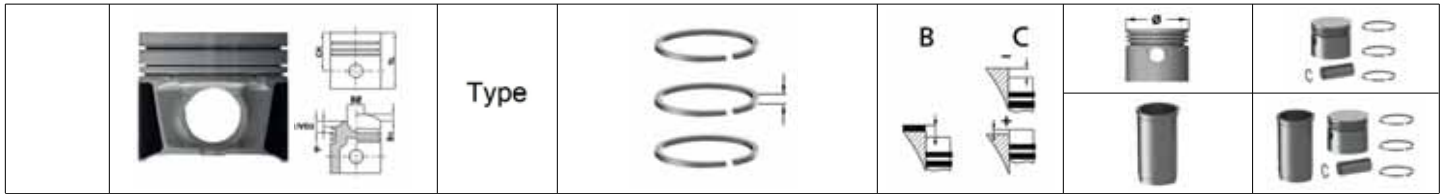
	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

125,000

D2565 HM / M / MF / MFR / MH / MR / MUE / MUH / MUL D 1975 1986 5 Cyl 9510cc 92-141kW (125-192ps)

D2566 HM / M / ME / MF / MFO / MFR / MH / MHO / MUE / MUH / MUL / MUM / MXF D 1975 6 Cyl 11407cc 125-177kW (170-241ps)

	<p>11-01601-000 CH 89,870 B- 44,000 BØ 49,600 TL 141,870</p>  46,00x105,00	<p>AP</p> <p>HA</p>	<p>91-09595-000</p> <p>1 3,000  CR</p> <p>2 3,000  P</p> <p>3 5,000  CR</p>	<p>0/+0,32</p>	<p>Ø 125,000</p>	<p>31-03601-000</p>
	<p>K=139,95 L=270,00 H+F=10,05+0,80 D=151,95</p>	<p>WF-PH</p>			<p>51-05595-000</p>	<p>71-07601-000</p>
	<p>K=139,95 L=270,00 H+F=10,25+0,80 D=151,95</p>	<p>WF-PH</p> <p>+0,20</p>		<p>O-Ring/Seal</p> <p>55-50502-000 2 FPM 138,00x2,10 2 FPM 140,00x4,00</p>	<p>51-05595-020 52-05595-020</p>	
	<p>K=139,95 L=270,00 H+F=10,55+0,80 D=151,95</p>	<p>WF-PH</p> <p>+0,50</p>		<p>O-Ring/Seal</p> <p>55-50502-000 2 FPM 138,00x2,10 2 FPM 140,00x4,00</p>	<p>51-05595-050 52-05595-050</p>	


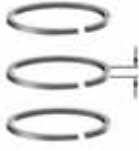
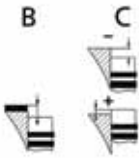

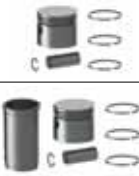


125,000						
D2565 MK / MKUL / MT	D	1976	5 Cyl	9510cc	169kW	(230ps)
D2566 KUL / MKUH / MKUL / MLE / MLUH / MLUM	D	1976	6 Cyl	11407cc	162-250kW	(220-340ps)
D2566 MFT / MKE / MT / MTE / MTF / MTFG / MTH / MTHO / MTU / MTUE / MTUM	D	1976	6 Cyl	11407cc	147-250kW	(200-340ps)
D2566 MK / MKF / MTUH	D	1977	1988	6 Cyl	11407cc	206-235kW (280-320ps)

<p>11-01602-000 CH 89,800 VD1 1,700 B- 43,000 BØ 52,000 TL 141,800</p> <p>46,00x105,00</p>	AP	<p>91-09596-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>	0/+0,32	<p>Ø 125,000</p>	<p>31-03602-000</p>
	YS				
	HA				
<p>K=139,95 L=270,00 H+F=10,05+0,80 D=151,95</p>	WF-PH			<p>51-05595-000</p>	<p>71-07605-000</p>
<p>K=139,95 L=270,00 H+F=10,25+0,80 D=151,95</p>	WF-PH +0,20		<p>O-Ring/Seal</p> <p>55-50502-000</p> <p>2 FPM 138,00x2,10 2 FPM 140,00x4,00</p>	<p>51-05595-020</p> <p>52-05595-020</p>	
<p>K=139,95 L=270,00 H+F=10,55+0,80 D=151,95</p>	WF-PH +0,50		<p>O-Ring/Seal</p> <p>55-50502-000</p> <p>2 FPM 138,00x2,10 2 FPM 140,00x4,00</p>	<p>51-05595-050</p> <p>52-05595-050</p>	







125,000						
D 2530 ME / MF / MFR / MK / MKF / MR / MXF / MXFR	D	1972	1986	10 Cyl	15945cc	156-235kW (212-320ps)
D 2538 M / ME / MF	D	1972	1977	8 Cyl	12763cc	188kW (256ps)

<p>11-01732-000 CH 92,300 B- 44,900 BØ 47,300 TL 137,300</p> <p>46,00x97,00</p>	AP	<p>91-09595-000</p> <p>1 3,000 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>	0/+0,40	<p>Ø 125,000</p>	<p>31-03732-000</p>
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50502-000</p> <p>2 FPM 138,00x2,10 2 FPM 140,00x4,00</p>	<p>51-05601-000</p> <p>52-05601-000</p>	<p>71-07732-000</p> <p>72-07732-000</p>
<p>K=144,45 L=253,00 H+F=10,05+1,00 D=153,70</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50508-000</p> <p>2 FPM 138,00x2,10 2 FPM 144,00x4,00</p>	<p>51-05602-000</p> <p>52-05602-000</p>	<p>71-07007-000</p> <p>72-07007-000</p>

	Type				
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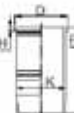
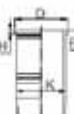

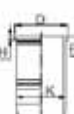
126,000

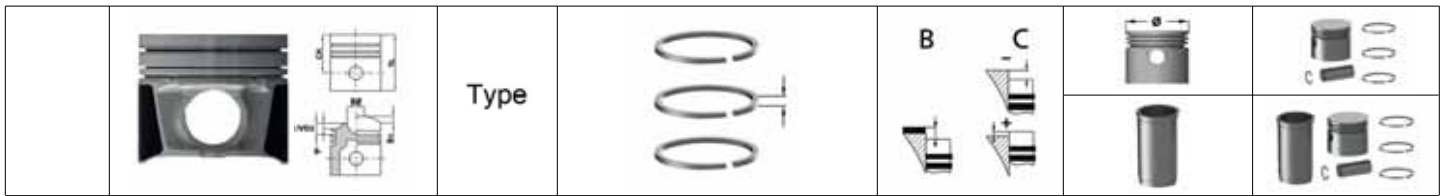
D 2676 LF 01-05 / LOH 01-04 Euro 4	D 1995	6 Cyl	12419cc	338-353kW	(460-480ps)
D 2676 LF 06-08 / LF 10-22 / LF 25-28 / LF 31-33 Euro 5	D 1969	6 Cyl	12419cc	353kW	(480ps)

	11-02665-000 CH 76,300 VD1 2,000 B- 19,950 BØ 95,000 TL 121,800	AP YS PDB	91-09762-000 1 4,000  CdC 2 3,000  CrP 3 4,000  CR		Ø 126,000	31-04665-000
	52,00x103,00					
	K=139,50 L=257,50 H=8,07 D=150,00	WF		O-Ring/Seal 55-50505-000 2 FPM 139,40x4,70	51-05699-000 52-05699-000	71-07611-000 72-07611-000

128,000






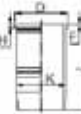


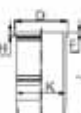
D2876 LF05 Euro3	D 1999	2003	6 Cyl	12816cc	375kW	(510ps)
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	11-01568-000 CH 79,250 VD1 1,900 B- 21,740 BØ 85,900 TL 134,250	AP YS	91-09578-000 1 4,000  CK 2 3,000  CR 3 4,000  CK		Ø 128,000	31-03568-000
	50,00x107,00					
	K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07568-000 72-07568-000
	K=144,45 L=270,00 H+F=10,27+1,00 D=153,80	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
	K=144,45 L=270,00 H+F=10,57+1,00 D=153,80	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
	K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07751-000 72-07751-000









128,000

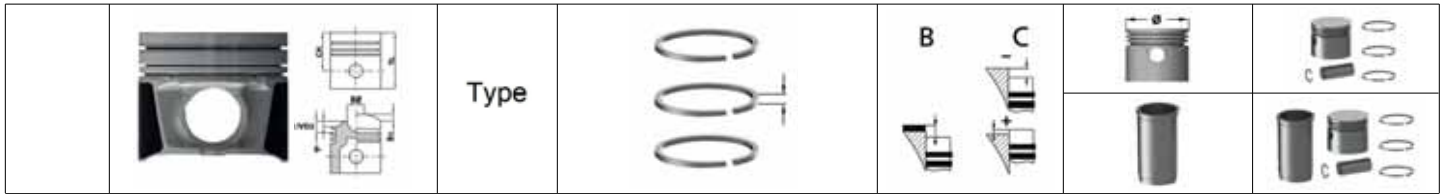
D2866 LF31 / LF32 / LF40 / LF43 Euro2 D 1997 6 Cyl 11967cc 265-301kW (360-410ps)

 11-01569-000 CH 89,750 VD1 1,900 B- 22,800 BØ 80,000 TL 141,750  46,00x105,00	AP 91-09578-000 1 4,000  CK 2 3,000  CR 3 4,000  CK			Ø 128,000 51-05598-000 52-05598-000	31-03569-000 71-07562-000 72-07562-000
	K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF-PH	O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07562-000 72-07562-000
	K=144,45 L=270,00 H+F=10,27+1,00 D=153,80	WF-PH +0,20	O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
	K=144,45 L=270,00 H+F=10,57+1,00 D=153,80	WF-PH +0,50	O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
	K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF	O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07752-000 72-07752-000






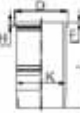
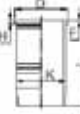
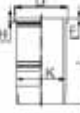
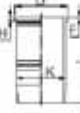
128,000

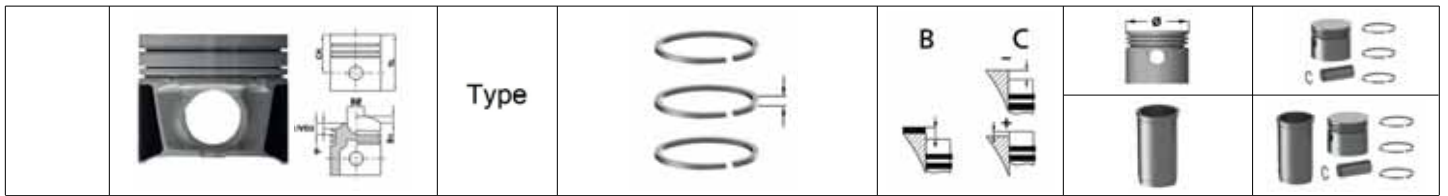
D2876 LF12 / LF13 / LF25 / LOH20 Euro3 D 2000 6 Cyl 12816cc 301-390kW (410-530ps)

 11-01570-000 CH 79,250 VD1 1,900 B- 23,750 BØ 76,160 TL 134,250  52,00x103,00	AP YS 91-09578-000 1 4,000  CK 2 3,000  CR 3 4,000  CK			Ø 128,000 51-05604-000 52-05604-000	31-03570-000 71-07569-000 72-07569-000
	K=144,50 L=268,00 H=8,07 D=153,80	WF	O-Ring/Seal 55-50506-000 1 FPM 138,00x144,75x4,60 2 FPM 144,00x4,00	51-05604-000 52-05604-000	71-07569-000 72-07569-000



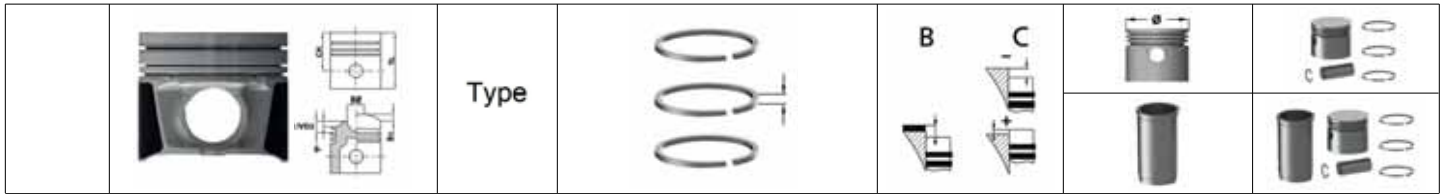
128,000
 D2866 LUH01 Euro3 D 1996 6 Cyl 11967cc 228kW (310ps)

	<p>11-01574-000 CH 89,200 B- 28,000 BØ 100,500 TL 141,270</p> <p> 46,00x105,00</p>	<p>AP</p>	<p>91-09574-000 1 3,500  CR 2 3,000  P 3 4,000  CR</p>		<p>Ø 128,000</p>	<p>31-03574-000</p>
	<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	<p>WF-PH</p>		<p>O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00</p>	<p>51-05598-000 52-05598-000</p>	<p>71-07574-000 72-07574-000</p>
	<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	<p>WF-PH +0,20</p>		<p>O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00</p>	<p>51-05598-020 52-05598-020</p>	
	<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	<p>WF-PH +0,50</p>		<p>O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00</p>	<p>51-05598-050 52-05598-050</p>	
	<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	<p>WF</p>		<p>O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00</p>	<p>51-05738-000 52-05738-000</p>	<p>71-07753-000 72-07753-000</p>



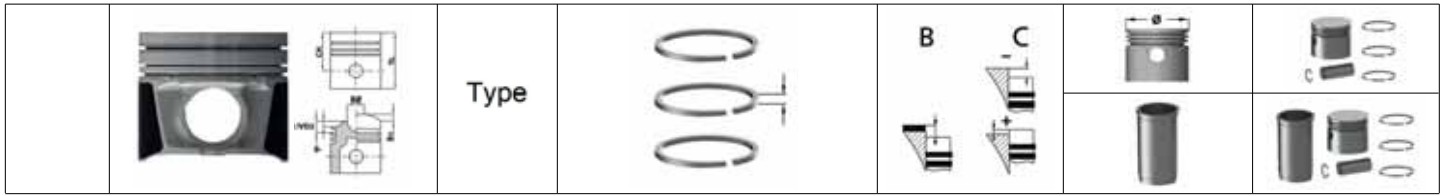
128,000						
D2876 LF02 Euro2	D	1994	6 Cyl	12816cc	320-338kW	(435-460ps)
D2876 LOH01 Euro2	D	1995	6 Cyl	12816cc	338kW	(460ps)
D2876 LUH01 / LUH02 / LUH03 Euro2	D		6 Cyl	12816cc	294-338kW	(400-460ps)

<p>11-01577-000 CH 79,250 VD1 2,100 B- 23,100 BØ 81,200 TL 134,250</p> <p>50,00x107,00</p>	AP	<p>91-09578-000</p> <p>1 4,000 CK 2 3,000 CR 3 4,000 CK</p>	+0,01/+0,33	Ø 128,000	31-03577-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07577-000 72-07577-000
<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-CR		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05608-000 52-05608-000	71-07576-000 72-07576-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07754-000 72-07754-000

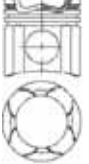





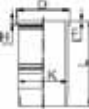
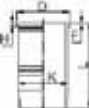
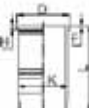
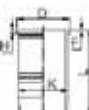


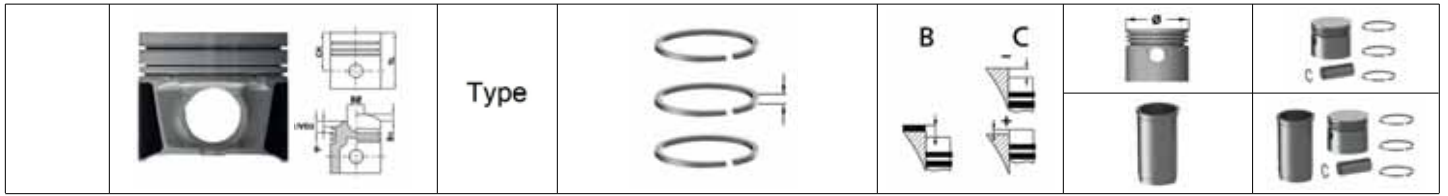
128,000		D2866 LF23-LF28 / LF37 / LOH27-LOH30 / LOH32-LOH35 / LUH23-LUH25 Euro3		D	1994	6 Cyl	11967cc	191-301kW	(260-410ps)
D2866 LF37 Euro2				D	1999	6 Cyl	11967cc	265kW	(360ps)

<p>11-01578-000 CH 89,750 VD1 1,900 B- 22,000 BØ 80,000 TL 141,750</p> <p>46,00x105,00</p>	AP	<p>91-09578-000</p> <p>1 4,000 CK</p> <p>2 3,000 CR</p> <p>3 4,000 CK</p>	+0,01/+0,33	Ø 128,000	31-03578-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07578-000 72-07578-000
<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-CR		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05608-000 52-05608-000	71-07575-000 72-07575-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07755-000 72-07755-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50506-000 1 FPM 138,00x144,75x4,60 2 FPM 144,00x4,00	51-05740-000 52-05740-000	71-07565-000 72-07565-000



128,000	
D2876 LF03 / LF04 / LF09 / LF10 / LF14 / LF17 / LOH02-LOH05 Euro3	D 1998 6 Cyl 12816cc 301-390kW (409-530ps)
D2876 LF06 Euro2	D 1998 2001 6 Cyl 12816cc 321-338kW (436-460ps)

 11-01579-000 CH 79,250 VD1 1,900 B- 21,740 BØ 85,050 TL 134,250  50,00x107,00	AP	91-09578-000 1 4,000  CK 2 3,000  CR 3 4,000  CK	Ø 128,000	31-03579-000
 K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000 71-07579-000 72-07579-000
 K=144,45 L=270,00 H+F=10,27+1,00 D=153,80	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020
 K=144,45 L=270,00 H+F=10,57+1,00 D=153,80	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050
 K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF-CR		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05608-000 52-05608-000 71-07570-000 72-07570-000
 K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000 71-07756-000 72-07756-000

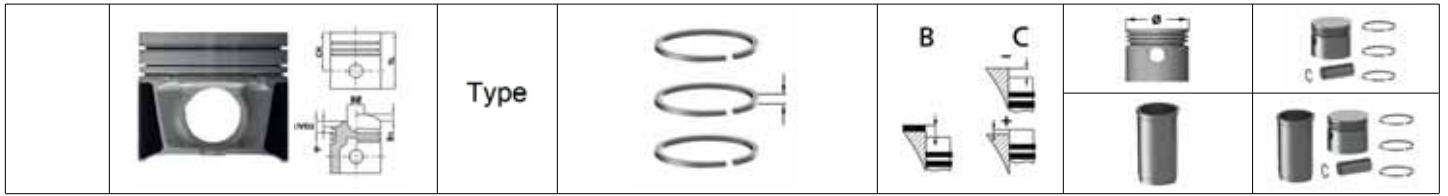


128,000						
D2865 LF01 Euro0	D	1989	5 Cyl	9972cc	198kW	(270ps)
D2865 LF09 / LF20 / LF21 / LOH07 - LOH10 / LUH 07 Euro2	D	1991	5 Cyl	9972cc	191-250kW	(260-340ps)
D2865 LF22 / LF23 / LOH05 - LOH06 Euro 1	D	1991	5 Cyl	9972cc	191-235kW	(260-320ps)
D2865 LFR01 - LFR03	D	1989	5 Cyl	9972cc	kW	(ps)
D2866 LF14 / LF16 - LF17 / LOH23 / LOH25 / LOH26 / LOH 31 / LUH21 / LUH22 / LUH26 Euro2	D	1993	6 Cyl	11967cc	191-294kW	(260-400ps)

<p>11-01597-000 CH 89,750 VD1 2,100 B- 21,600 BØ 81,200 TL 141,750</p> <p>46,00x105,00</p>	AP	<p>91-09598-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>	+0,01/+0,33	Ø 128,000	31-03597-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07597-000 72-07597-000
<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-CR		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05608-000 52-05608-000	71-07604-000 72-07604-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07757-000 72-07757-000

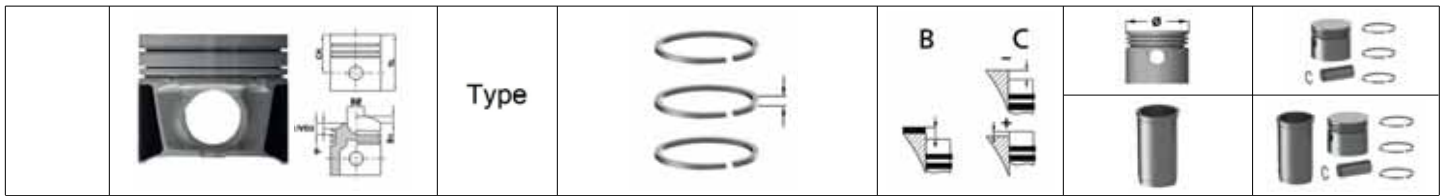
128,000							
Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston				Cyl	cc	kW	(ps)

<p>11-01597-002 CH 89,550 VD1 2,100 B- 21,600 BØ 81,200 TL 141,550</p> <p>46,00x105,00</p>	AP CH -0,20 mm	<p>91-09598-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>		Ø 128,000	31-03597-002
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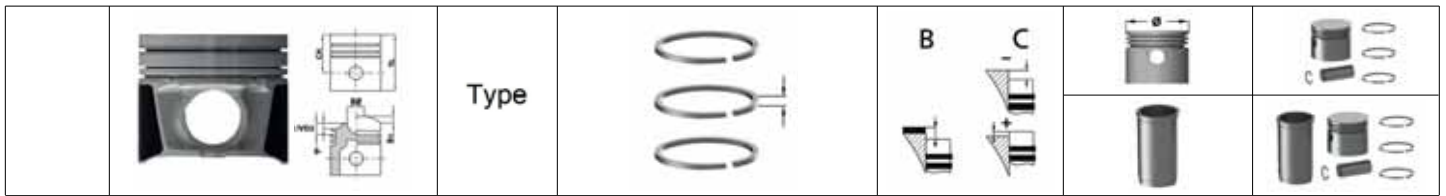
128,000	
D2865 LF13 Euro2	D 1995
D2865 LFR05 / LFR06 / LFR10 / LFR14 / LFR15	D 1989
D2866 FZ	D 1987
D2866 KF / KF01 / KFZ / KOH / KU / KUH / KUL / LF / LFZ / LH01/LU/LUH/LUL/LXF/TUH	D 1983
D2866 LF33 Euro3	D 1999
D2866 LULK	D 1985
D2866 T	D 1987 1993
D2866 TOCH / TOH / TUH	D 1984
D2866 TU	D 1987 1993

<p>11-01598-000 CH 89,800 VD1 2,300 B- 32,200 BØ 70,000 TL 141,800</p> <p> 46,00x105,00</p>	AP	<p>91-09598-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>	0/+0,20	Ø 128,000	31-03598-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07598-000 72-07598-000
<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-CR		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05608-000 52-05608-000	71-07599-000 72-07599-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07758-000 72-07758-000



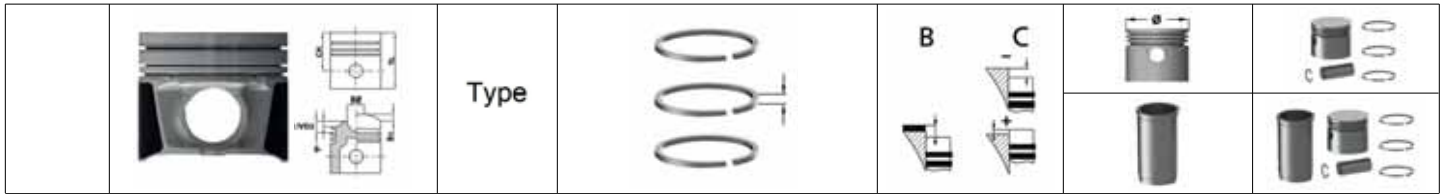
128,000						
D2866 E20		D	1989	6 Cyl	11967cc	138-240kW (188-326ps)
D2866 F		D	1988 1989	6 Cyl	11967cc	185kW (252ps)
D2866 FOH		D	1985	6 Cyl	11967cc	265kW (360ps)
D2866 FR		D	1997	6 Cyl	11967cc	177kW (240ps)
D2866 OCH		D	1969	6 Cyl	11967cc	180kW (245ps)
D2866 OH		D	1986	6 Cyl	11967cc	177kW (241ps)
D2866 U		D	1990 1992	6 Cyl	11967cc	160-180kW (218-245ps)
D2866 UE		D	1984 1987	6 Cyl	11967cc	160kW (218ps)
D2866 UH		D	1980 1988	6 Cyl	11967cc	180kW (245ps)
D2866 UH / 205		D	1969	6 Cyl	11967cc	150kW (204ps)
D2866 UH01		D	1969	6 Cyl	11967cc	180kW (245ps)
D2866 UM		D	1983 1987	6 Cyl	11967cc	152kW (207ps)

<p>11-01746-000 CH 89,870 B- 31,070 BØ 67,000 TL 141,870</p> <p>46,00x105,00</p>	AP	<p>91-09598-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>	0/+0,20	Ø 128,000	31-03746-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07746-000 72-07746-000
<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-CR		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05608-000 52-05608-000	71-07749-000 72-07749-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07759-000 72-07759-000



128,000	
D2865 LF / LF02-LF04 / LU01-LU03	D 1988 5 Cyl 9972cc 198-235kW (269-320ps)
D2865 LF05 / LF06 / LF10 / LF14 / LOH01 / LOH02 / LU04 / LU06 / LUH02 / LUH03 / LUH05 / LUH06 / LUH08 / LXF / LXFR	D 1990 5 Cyl 9972cc 191-250kW (260-340ps)
D2865 LF15 / LOH	D 1983 5 Cyl 9972cc 198-344kW (269-468ps)
D2866 KF09 / LH02 / LX / LXE30	D 1983 5 Cyl 9972cc 198-324kW (269-440ps)
D2866 LF02-LF04 / LF06 / LF07 / LOH / LOH02 / LU01 / LXOH / LXU / LXUH	D 1983 5 Cyl 9972cc 213-309kW (290-420ps)
D2866 LF05 / LF09 / LF10 / LF15 / LOH03 / LOH06 / LOH07 / LOH09 / LOH20-LOH22 / LOH24 / LU03-LU05 / LU09 Euro1	D 1990 5 Cyl 9972cc 230-310kW (313-420ps)
D2866 LF21 / LF22 / LFG03 / LXFG Euro1	D 1994 5 Cyl 9972cc 198-324kW (269-440ps)
D2866 LFG	D 1991 5 Cyl 9972cc 221-243kW (300-330ps)
D2866 LFG04 Euro1	D 1994 5 Cyl 9972cc 309kW (420ps)

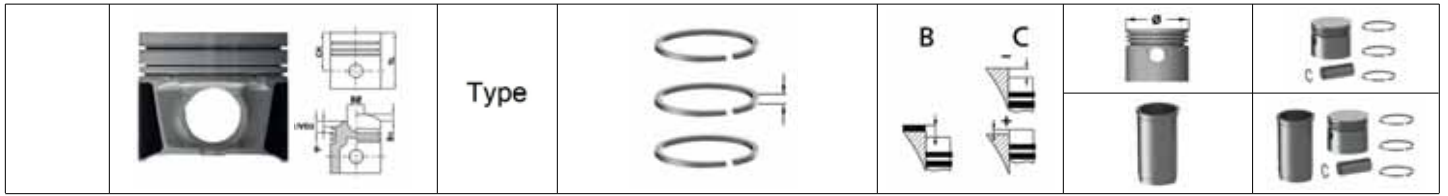
<p>11-01748-000 CH 89,750 VD1 2,050 B- 24,400 BØ 75,600 TL 141,750</p> <p>46,00x105,00</p>	AP	<p>91-09598-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>	+0,01/+0,038	Ø 128,000	31-03748-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07748-000 72-07748-000
<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-CR		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05608-000 52-05608-000	71-07750-000 72-07750-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07760-000 72-07760-000



128,000

D2865 LF24 Euro2	D	1994		5 Cyl	9972cc	213kW	(290ps)
D2865 LUH09 Euro2	D	1996	1998	5 Cyl	9972cc	191kW	(260ps)
D2865 LUH20 Euro2	D	1969		5 Cyl	9972cc	191kW	(260ps)
D2866 LUH20 Euro2	D	1996		6 Cyl	11967cc	228kW	(310ps)

<p>11-02660-000 CH 89,750 VD1 2,100 B- 20,200 BØ 81,200 TL 141,750</p> <p>46,00x105,00</p>	AP	<p>91-09598-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 5,000 CR</p>		Ø 128,000	31-04660-000
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-000 52-05598-000	71-07571-000 72-07571-000
<p>K=144,45 L=270,00 H+F=10,27+1,00 D=153,80</p>	WF-PH +0,20		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-020 52-05598-020	
<p>K=144,45 L=270,00 H+F=10,57+1,00 D=153,80</p>	WF-PH +0,50		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05598-050 52-05598-050	
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05738-000 52-05738-000	71-07761-000 72-07761-000

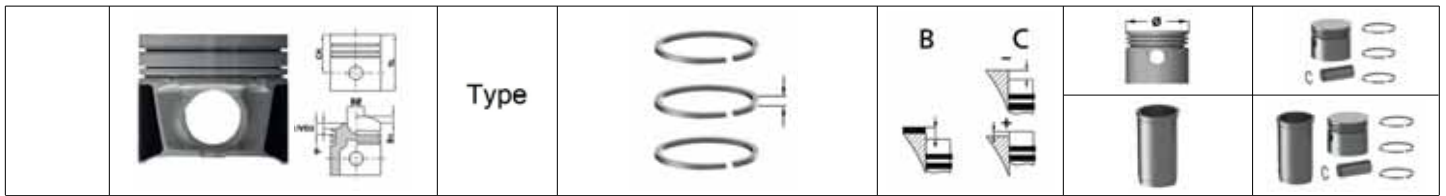


91,480

A 3.152	D	3 Cyl	2503cc	27-35kW	(37-48ps)
A 4.203	D	4 Cyl	3335cc	43kW	(58ps)
A 6.305	D 1960	6 Cyl	5003cc	55kW	(75ps)


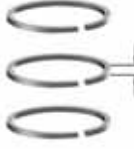
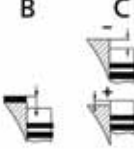






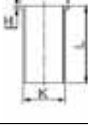

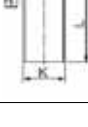
<p>11-01831-000 CH 57,200 TL 107,700</p> <p>31,75x75,30</p>	<p>91-09832-000</p> <p>1 2,385 CrP 2 2,385 P 3 3,160 P 4 6,335 P 5 6,335 CrP</p>	-0,13/0	Ø 91,480	31-03831-000

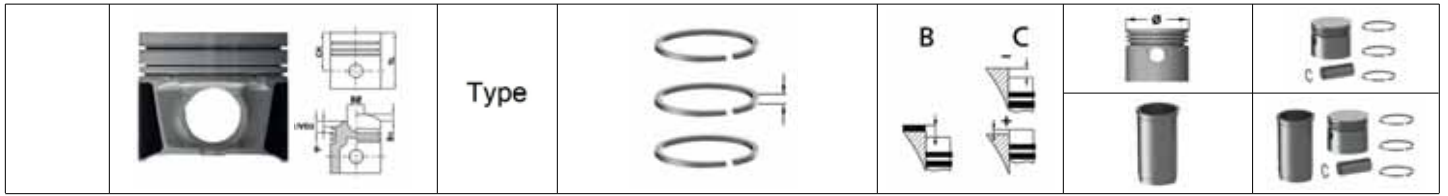
<p>K=93,67 L=216,00 H=3,81 D=96,70</p>	DF			51-35835-000	71-07831-000
<p>K=93,90 L=216,00 H=3,81 D=96,70</p>	DF +0,25			51-35835-025	
<p>K=94,16 L=216,00 H=3,81 D=96,70</p>	DF +0,50			51-35835-050	
<p>K=93,75 L=216,00 H=3,81 D=96,75</p>	DS			51-65834-000	
<p>K=94,30 L=216,00 H=3,81 D=96,75</p>	DS +0,50			51-65834-050	
<p>K=94,75 L=216,00 H=3,81 D=96,75</p>	DS +1,00			51-65834-100	
<p>K=95,25 L=216,00 H=3,81 D=98,25</p>	DS +1,50			51-65834-150	
<p>K=95,75 L=216,00 H=3,81 D=98,75</p>	DS +2,00			51-65834-200	



91,480	
AD3.152	D 4 Cyl 2500cc 28-42kW (38-57ps)
AD4.203	D 4 Cyl 2500cc 40-43kW (55-59ps)

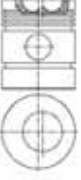






<p>11-01832-000 CH 61,910 B- 18,400 BØ 55,850 TL 109,540</p> <p>31,75x75,30</p>	<p>91-09832-000</p> <p>1 2,385 CrP 2 2,385 P 3 3,160 P 4 6,335 P 5 6,335 CrP</p>	-0,03/+0,10	Ø 91,480	31-03832-000
<p>K=93,67 L=216,00 H=3,81 D=96,70</p>	DF		51-35835-000	71-07832-000
<p>K=93,90 L=216,00 H=3,81 D=96,70</p>	DF +0,25		51-35835-025	
<p>K=94,16 L=216,00 H=3,81 D=96,70</p>	DF +0,50		51-35835-050	
<p>K=93,80 L=216,00 H=5,00 D=97,00</p>	DS		51-65831-000	
<p>K=94,30 L=216,00 H=5,00 D=97,00</p>	DS +0,50		51-65831-050	
<p>K=94,80 L=216,00 H=5,00 D=97,65</p>	DS +1,00		51-65831-100	
<p>K=95,05 L=216,00 H=6,00 D=98,00</p>	DS +1,25		51-65831-125	
<p>K=95,30 L=216,00 H=6,00 D=98,25</p>	DS +1,50		51-65831-150	
<p>K=95,80 L=216,00 H=6,00 D=98,75</p>	DS +2,00		51-65831-200	

		Type				
	K=96,30 L=216,00 H=6,00 D=99,25	DS +2,50			51-65831-250	
	K=96,80 L=216,00 H=6,00 D=99,75	DS +3,00			51-65831-300	
	K=93,75 L=216,00 H=3,81 D=96,75	DS			51-65834-000	
	K=94,30 L=216,00 H=3,81 D=96,75	DS +0,50			51-65834-050	
	K=94,75 L=216,00 H=3,81 D=96,75	DS +1,00			51-65834-100	
	K=95,25 L=216,00 H=3,81 D=98,25	DS +1,50			51-65834-150	
	K=95,75 L=216,00 H=3,81 D=98,75	DS +2,00			51-65834-200	




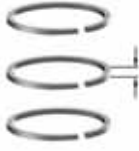
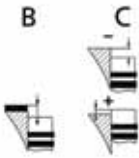


98,480

A6.354.1	D	1969	1990	6 Cyl	5800cc	71-82kW	(97-112ps)
6354	D			6 Cyl	5800cc	69-82kW	(94-112ps)

 <p>11-01840-000 CH 70,100 B- 25,700 BØ 54,000 TL 120,700</p>  <p>34,93x84,10</p>	<p>91-09863-000</p> <p>1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP 5 6,350  P</p>	<p>Ø 98,480</p>	<p>31-03840-000</p>
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Ihc/Case, Leyland, Massey-Ferguson ve Perkins ile Ortak Motor







 <p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF				51-35844-000	
 <p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF				51-35844-000	71-07840-000
 <p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00				51-35844-100	
 <p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS				51-65840-000	
 <p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25				51-65840-025	
 <p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50				51-65840-050	
 <p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00				51-65840-100	
 <p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50				51-65840-150	

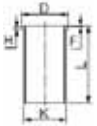
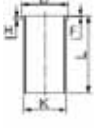
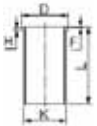

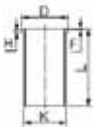
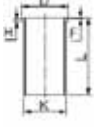
	Type				
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	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250
	K=103,28 L=229,00 H+F= +	DS			51-65845-000

98,480

4212	D	1969	4 Cyl	3864cc	44-47kW	(60-64ps)
A4.212	D	1964	4 Cyl	3864cc	44kW	(60ps)

	11-01842-000 CH 76,500 B- 19,200 BØ 54,000 TL 127,300		91-49863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP		Ø 98,480	31-03842-000
	34,93x84,10					
Ihc/Case, Massey-Ferguson ve Perkins ile Ortak Motor						

	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07842-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	

		Type					
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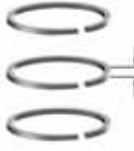
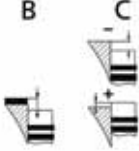






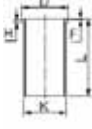
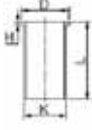
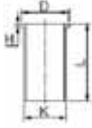

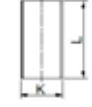
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50				51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50				51-65840-250	

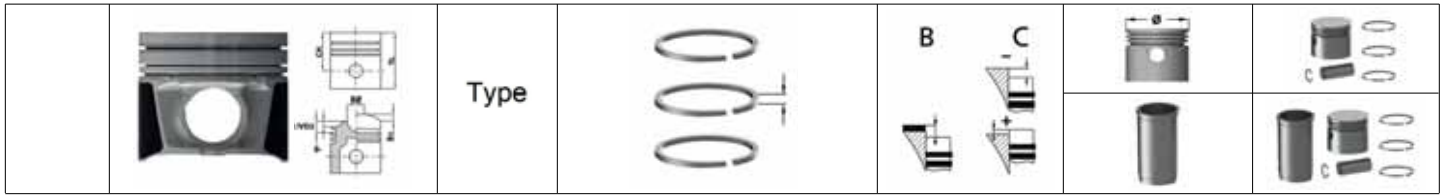
98,480

4236	D	4 Cyl	3864cc	48-60kW	(59-80ps)
A4.236	D	4 Cyl	3864cc	37-65kW	(50-89ps)
AD4.236	D 1965	4 Cyl	3864cc	48-60kW	(59-80ps)

	11-01848-000 CH 70,050 B- 20,150 BØ 61,000 TL 120,850	AP CP	91-09867-000 1 2,385 CrP 2 2,385 P 3 4,747 CR	+0,28/+0,48	Ø 98,480	31-03848-000
	34,93x84,10	Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RV) ve Volvo ile Ortak Motor				

	K=104,21 L=227,00 H=3,83 D=107,38	DF				51-35842-000	71-07858-000
	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF				51-35844-000	71-07848-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00				51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS				51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25				51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50				51-65840-050	

		Type			 	 
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	



98,480

4236	D	4 Cyl	3864cc	48-60kW	(59-80ps)
A4.236	D	4 Cyl	3864cc	37-65kW	(50-89ps)
AD4.236	D 1965	4 Cyl	3864cc	48-60kW	(59-80ps)

<p>11-01863-000 CH 70,250 B- 20,280 BØ 60,500 TL 120,900</p> <p> 34,93x84,10</p> <p>Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RVI) ve Volvo ile Ortak Motor</p>	<p>91-09863-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 6,350 CrP 5 6,350 P</p>	<p>Ø 98,480</p> <p>31-03863-000</p>
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<p>K=104,21 L=227,00 H=3,83 D=107,38</p>	DF			51-35842-000	71-07864-000
<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			51-35844-000	71-07863-000
<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00			51-35844-100	
<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS			51-65840-000	
<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25			51-65840-025	
<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50			51-65840-050	
<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00			51-65840-100	
<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50			51-65840-150	

		Type					
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	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50				51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS				51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50				51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00				51-65841-100	
	K=103,28 L=229,00 H+F= +	DS				51-65845-000	


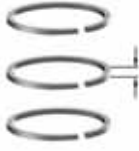
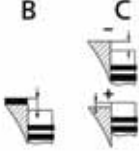




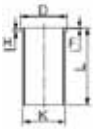
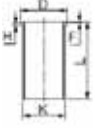
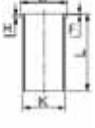
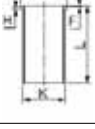
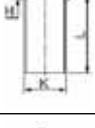
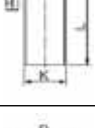
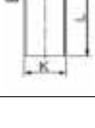
98,480

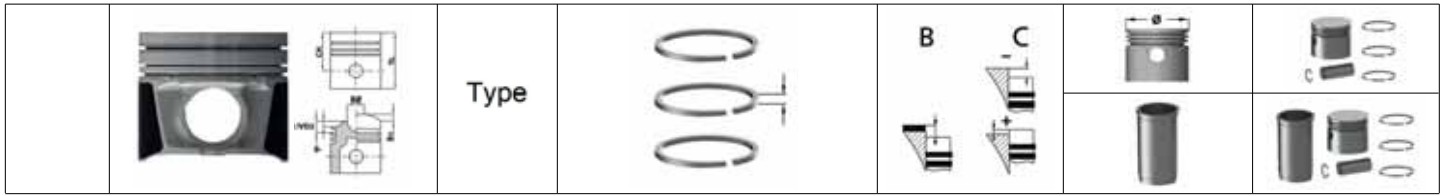
T4.236 D 4 Cyl 3864cc 49kW (66ps)

	11-01868-000 CH 70,250 B- 19,950 BØ 61,000 TL 108,250	AP CP	91-09868-000 1 3,160 CrP 2 2,385 P 3 4,747 CrP			Ø 98,480	31-03868-000
	38,10x82,50						

Massey-Ferguson, Perkins ve Renault Trucks (RVI) ile Ortak Motor

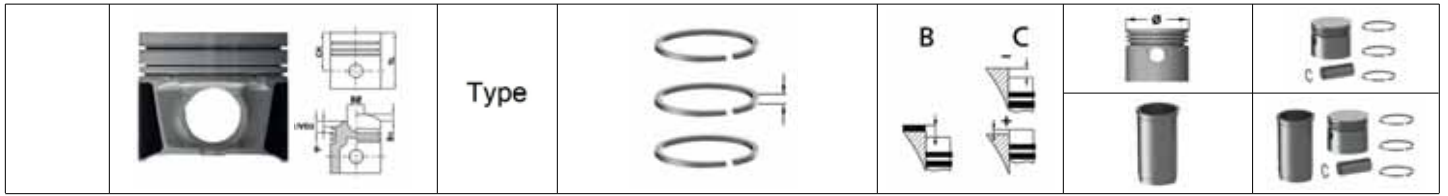
	K=104,21 L=227,00 H=3,83 D=107,38	DF				51-35842-000	71-07868-000
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS				51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25				51-65840-025	

		Type			 	 
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	



100,000
 1106C-E60TA Euro2 D 2003 6 Cyl 5984cc 88-130kW (120-175ps)


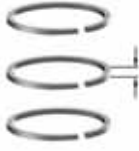
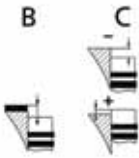


	<p>11-02466-000 CH 70,266 B- 21,750 BØ 52,800 TL 108,230</p> <p> 39,70x78,00</p>	<p>AP</p>	<p>91-09466-000 1 3,500 MoP 2 2,500 3 3,500 CR</p>		<p>Ø 100,000</p>	<p>31-04466-000</p>
	<p>K=104,21 L=226,45 H=3,85 D=107,45</p>	<p>DF</p>			<p>51-35848-000</p>	<p>71-08466-000</p>
	<p>K=104,26 L=227,50 H+F=3,81+1,00 D=107,35</p>	<p>DF</p>			<p>51-35849-000</p>	<p>71-08468-000</p>
	<p>K=104,26 L=227,50 H+F=3,81+1,00 D=107,35</p>	<p>DS</p>			<p>51-65839-000</p>	
	<p>K=104,76 L=227,50 H+F=3,81+1,00 D=107,35</p>	<p>DS +0,50</p>			<p>51-65839-050</p>	
	<p>K=104,25 L=226,45 H=3,85 D=107,45</p>	<p>DS</p>			<p>51-65847-000</p>	
	<p>K=104,50 L=226,45 H=3,85 D=107,45</p>	<p>DS +0,25</p>			<p>51-65847-025</p>	



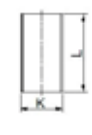


101,054
 4248 D 1969 4 Cyl 4064cc 53-66kW (72-90ps)

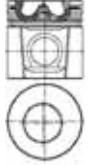




 11-01852-000 CH 70,100 B- 21,000 BØ 61,500 TL 120,900 34,93x84,10	Type CP	91-09852-000 1 2,385 CR 2 2,385 CR 3 2,385 CR 4 6,335 CR	B C	 Ø 101,054	 31-03852-000
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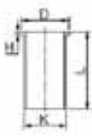
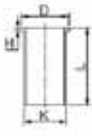
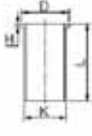
Massey-Ferguson ve Perkins ile Ortak Motor					
 K=104,21 L=227,00 H=3,83 D=107,38	DF			51-35846-000	71-07131-000
 K=104,20 L=227,20 H+F=3,80+0,85 D=107,40	DF			51-35852-000	71-07852-000
 K=104,26 L=227,00 H=3,83 D=107,38	DS			51-65843-000	
 K=104,76 L=227,00 H=3,83 D=107,38	DS +0,50			51-65843-050	
 K=105,26 L=227,00 H=5,00 D=107,38	DS +1,00			51-65843-100	
 K=104,33 L=227,20 H+F=3,85+0,90 D=107,45	DS			51-65851-000	
 K=104,55 L=227,20 H+F=3,85+0,90 D=107,45	DS +0,25			51-65851-025	
 K=104,80 L=227,20 H+F=3,85+0,90 D=107,45	DS +0,50			51-65851-050	
 K=105,05 L=227,20 H+F=3,85+0,90 D=107,45	DS +0,75			51-65851-075	

	Type				
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	K=105,30 L=227,20 H+F=3,85+0,90 D=108,45	DS +1,00			51-65851-100
	K=105,80 L=227,20 H+F=5,00+0,90 D=108,95	DS +1,50			51-65851-150
	K=103,33 L=224,00	DS			51-65853-000

105,000						
1103C-33 Euro2	D	2005	4 Cyl	3300cc	39-43kW	(53-58ps)
1103C-33T Euro2	D	2004	4 Cyl	3300cc	47-55kW	(64-75ps)
1104C-44T Euro2	D	2002	4 Cyl	4400cc	60-85kW	(82-116ps)
1104C-44TA Euro2	D	2003	4 Cyl	4400cc	85-99kW	(115-135ps)
1104C-E44TA Euro2	D	2003	4 Cyl	4400cc	82-106kW	(110-142ps)

	11-02465-000 CH 70,100 B- 22,000 BØ 55,100 TL 108,000	AP	91-09465-000 1 3,500  MoP 2 2,500  P 3 3,500  CrP		Ø 105,000 Ø 105,500 Ø 106,000	31-04465-000 31-04465-050 31-04465-100
 39,70x78,00		Massey-Ferguson ve Perkins ile Ortak Motor				

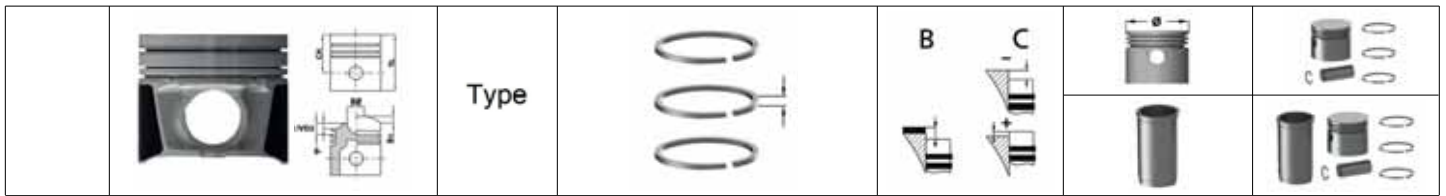
	K=108,00 L=227,00 H=5,10 D=109,40	DF			51-35833-000	71-08465-000
	K=108,06 L=227,00 H=5,10 D=109,40	DS			51-65836-000	
	K=108,56 L=227,00 H=5,10 D=109,90	DS +0,50			51-65836-050	

		Type				

105,000

1103C-33 Euro2	D	2005	4 Cyl	3300cc	39-43kW	(53-58ps)
1104C-44 Euro2	D	2002	4 Cyl	4400cc	50-64kW	(67-84ps)

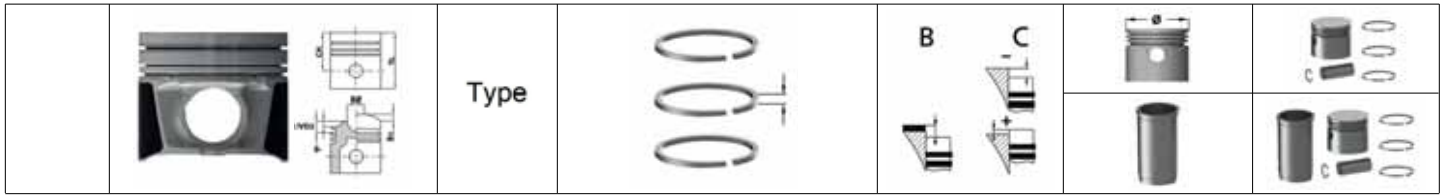
<p>11-02467-000 CH 70,100 B- 22,400 BØ 51,250 TL 108,000</p> <p>39,70x70,00</p>	<p>91-09467-000</p> <p>1 2,500 CR</p> <p>2 2,500 P</p> <p>3 3,500 CrP</p>				<p>Ø 105,000</p> <p>Ø 105,500</p> <p>Ø 106,000</p>	<p>31-04467-000</p> <p>31-04467-050</p> <p>31-04467-100</p>
					Massey-Ferguson ve Perkins ile Ortak Motor	
<p>K=108,00 L=227,00 H=5,10 D=109,40</p>		DF			51-35833-000	71-08467-000
<p>K=108,06 L=227,00 H=5,10 D=109,40</p>		DS			51-65836-000	
<p>K=108,56 L=227,00 H=5,10 D=109,90</p>		DS +0,50			51-65836-050	



97,000

OM 314A	D	4 Cyl	3780cc	63kW	(85ps)
OM 352A / OM 353A	D	6 Cyl	5675cc	115kW	(156ps)
OM 362LA.906 / 909 / 910	D	6 Cyl	5675cc	141kW	(192ps)


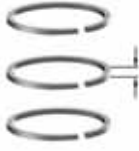
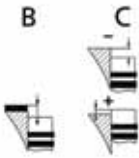

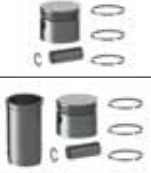
<p>11-01621-000 CH 65,200 *CH 64,900 B- 21,500 *B- 21,500 BØ 55,000 *BØ 55,000 TL 105,200 *TL 104,900</p> <p>* For Oversize Piston Dimensions</p> <p>36,00x82,50</p>	AP	<p>91-09622-000</p> <p>1 2,500 Mo 2 2,500 CR 3 4,000 CR</p>	-0,07/+0,30	Ø 97,000 Ø 97,500 Ø 98,000	31-03621-000 31-03621-050 31-03621-100
<p>K=100,40 L=222,00 H=5,20 D=103,50</p>	DS			51-65635-000	
<p>K=101,05 L=222,00 H=6,00 D=103,92</p>	DS +0,50			51-65635-050	
<p>K=101,50 L=222,00 H=6,00 D=104,42</p>	DS +1,00			51-65635-100	
<p>K=102,50 L=222,00 H=6,00 D=105,42</p>	DS +2,00			51-65635-200	
<p>K=101,00 L=222,00 H=5,50 D=103,50</p>	DS			51-65735-000	
<p>K=101,50 L=222,00 H=5,50 D=104,00</p>	DS +0,50			51-65735-050	



97,000							
OM 341.913 / 933 / 937 / 939 / 943 / 947 / 950 / 996	D	1973	6 Cyl	5675cc	96-118kW	(130-160ps)	
OM 344.913 / 931	D	1973	6 Cyl	5675cc	115kW	(156ps)	
OM 352.900 (OM 352A)	D	1982 1987	6 Cyl	5675cc	99-124kW	(135-168ps)	
OM 352.900 / 913 / 916 / 918 / 937 / 946 / 950 / 968 / 988 / 994	D		6 Cyl	5675cc	99-124kW	(135-168ps)	
OM 353.909 / 914 / 921 / 937 / 950 / 954 / 958 / 970 / 972 / 974 / 978 / 991 / 997	D		6 Cyl	5675cc	92-127kW	(125-172ps)	








<p>11-01622-000 CH 65,200 *CH 64,800 VD1 2,200 *VD1 2,200 B- 20,000 *B- 20,000 BØ 55,000 *BØ 55,000 TL 105,200 *TL 104,800</p> <p>* For Oversize Piston Dimensions</p> <p>36,00x82,50</p>	AP	<p>91-09622-000</p> <p>1 2,500 Mo 2 2,500 CR 3 4,000 CR</p>	-0,07/+0,30	Ø 97,000 Ø 97,500 Ø 98,000	<p>31-03622-000 31-03622-050 31-03622-100</p>

<p>K=100,40 L=222,00 H=5,20 D=103,50</p>	DS				51-65635-000
<p>K=101,05 L=222,00 H=6,00 D=103,92</p>	DS +0,50				51-65635-050
<p>K=101,50 L=222,00 H=6,00 D=104,42</p>	DS +1,00				51-65635-100
<p>K=102,50 L=222,00 H=6,00 D=105,42</p>	DS +2,00				51-65635-200
<p>K=101,00 L=222,00 H=5,50 D=103,50</p>	DS				51-65735-000
<p>K=101,50 L=222,00 H=5,50 D=104,00</p>	DS +0,50				51-65735-050

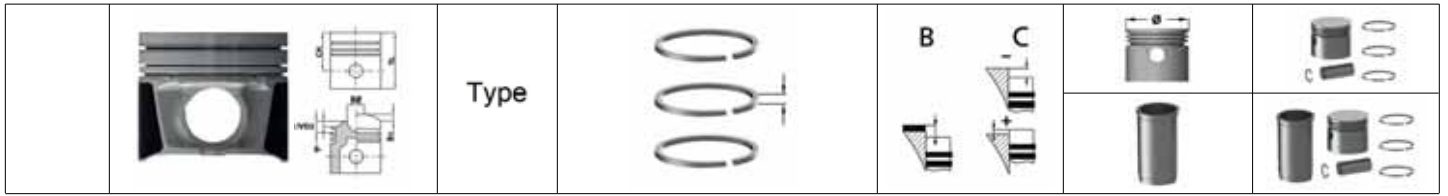
	Type				
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97,000

OM 314.963	D	1964	1981	4 Cyl	3800cc	63kW	(85ps)
OM 352.906 / OM 353.949	D	1964	1982	6 Cyl	5700cc	51-100kW	(70-130ps)

	11-01638-000 CH 65,200 B- 20,000 BØ 55,000 TL 115,700	AP	91-09912-000 1 3,000  CR 2 3,000  P 3 3,000  P 4 5,500  CrP 5 5,500  P	(-0,07/+0,35)	Ø 97,000 Ø 97,500 Ø 98,000	31-03638-000 31-03638-050 31-03638-100
	36,00x82,50	Mercedes-Benz ve Toyota ile Ortak Motor				

	K=100,40 L=222,00 H=5,20 D=103,50	DS			51-65635-000	
	K=101,05 L=222,00 H=6,00 D=103,92	DS +0,50			51-65635-050	
	K=101,50 L=222,00 H=6,00 D=104,42	DS +1,00			51-65635-100	
	K=102,50 L=222,00 H=6,00 D=105,42	DS +2,00			51-65635-200	
	K=101,00 L=222,00 H=5,50 D=103,50	DS			51-65735-000	
	K=101,50 L=222,00 H=5,50 D=104,00	DS +0,50			51-65735-050	



97,000							
OM 341.913 / 933 / 937 / 939 / 943 / 947 / 950 / 996	D	1973	6 Cyl	5675cc	96-118kW	(130-160ps)	
OM 344.913	D	1973	6 Cyl	5675cc	115kW	(156ps)	
OM 344.931	D	1973	6 Cyl	5675cc	115kW	(156ps)	
OM 352.900 / -006 / -008 / -010 / -013 / -015 / -400 / -410-430 / 913 / 916 / 918 / 937 / 946 / 949-950 / 968 / 988 / 994	D	1968	6 Cyl	5675cc	96-124kW	(130-168ps)	
OM 353.909-914 / 921 / 937 / 950-954 / 958 / 970-972 / 974-978 / 991 / 997	D	1970	6 Cyl	5675cc	92-127kW	(125-172ps)	

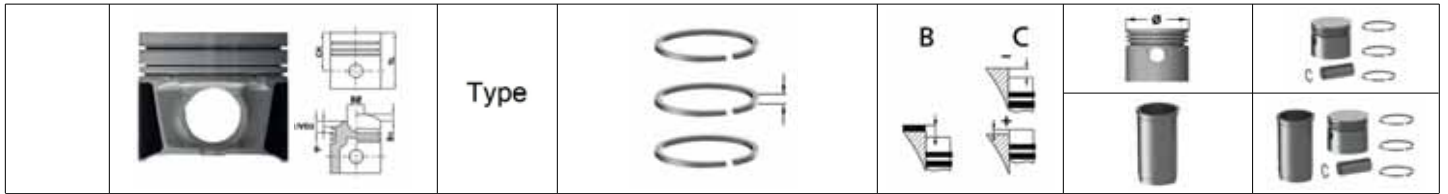
<p>11-02912-000 CH 65,200 VD1 2,400 B- 20,000 BØ 55,000 TL 115,700</p> <p>36,00x82,50</p>	AP	<p>91-09912-000</p> <p>1 3,000 CR 2 3,000 P 3 3,000 P 4 5,500 CrP 5 5,500 P</p>	-0,07/+0,30	Ø 97,000 Ø 97,500 Ø 98,000	31-04912-000 31-04912-050 31-04912-100
	Ford ve Mercedes-Benz ile Ortak Motor				

<p>K=101,00 L=222,00 H=5,50 D=103,50</p>	DS			51-65735-000	
<p>K=101,50 L=222,00 H=5,50 D=104,00</p>	DS +0,50			51-65735-050	

97,500							
OM 364A	D		4 Cyl	3972cc	100kW	(135ps)	
OM 366A	D		6 Cyl	6000cc	95-125kW	(120-170ps)	
OM 366LA Euro2	D	1964	6 Cyl	6000cc	135kW	(184ps)	

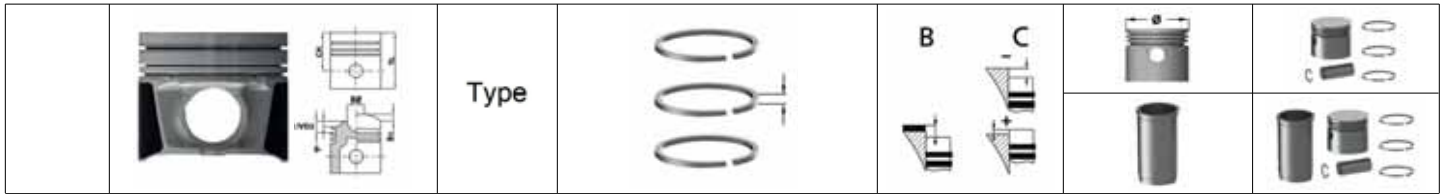
<p>11-01631-000 CH 63,000 B- 22,250 BØ 52,700 TL 108,000</p> <p>36,00x82,50</p>	AP	<p>91-09640-000</p> <p>1 2,500 Mo 2 2,500 CR 3 4,000 CR</p>		Ø 97,500 Ø 98,000	31-03631-000 31-03631-050

<p>K=100,47 L=222,00 H=5,20 D=103,37</p>	DS			51-65140-000	
<p>K=100,97 L=222,00 H=5,45 D=103,87</p>	DS +0,50			51-65140-050	
<p>K=101,47 L=222,00 H=5,95 D=104,37</p>	DS +1,00			51-65140-100	



97,500	
OM 364A	D 1964 4 Cyl 3972cc 100kW (135ps)
OM 366A / LA	D 1964 1998 6 Cyl 5958cc 90-129kW (125-175ps)


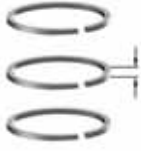
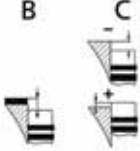

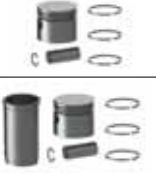
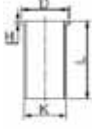


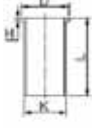
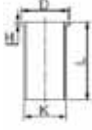
	<p>11-01640-000 CH 62,800 *CH 62,500 B- 22,350 *B- 22,350 BØ 55,800 *BØ 55,800 TL 107,800 *TL 107,500</p> <p>* For Oversize Piston Dimensions</p> <p> 36,00x82,50</p>	<p>AP</p>	<p>91-09640-000 1 2,500 Mo 2 2,500 CR 3 4,000 CR</p>		<p>Ø 97,500 Ø 98,000 Ø 98,000</p>	<p>31-03640-000 31-03640-050 31-03640-100</p>
	<p>K=100,40 L=222,00 H=5,10 D=103,50</p>	<p>DS</p>			<p>51-65638-000</p>	
	<p>K=101,00 L=222,00 H=5,10 D=104,00</p>	<p>DS +0,50</p>			<p>51-65638-050</p>	
	<p>K=100,49 L=224,00</p>	<p>DS</p>			<p>51-65639-000</p>	
	<p>K=100,49 L=222,00 H=4,50 D=103,50</p>	<p>DS</p>			<p>51-65640-000</p>	
	<p>K=100,75 L=222,00 H=5,20 D=103,75</p>	<p>DS +0,25</p>			<p>51-65640-025</p>	
	<p>K=101,05 L=222,00 H=6,00 D=104,00</p>	<p>DS +0,50</p>			<p>51-65640-050</p>	
	<p>K=101,50 L=222,00 H=6,00 D=104,50</p>	<p>DS +1,00</p>			<p>51-65640-100</p>	
	<p>K=102,05 L=222,00 H=6,00 D=105,00</p>	<p>DS +1,50</p>			<p>51-65640-150</p>	

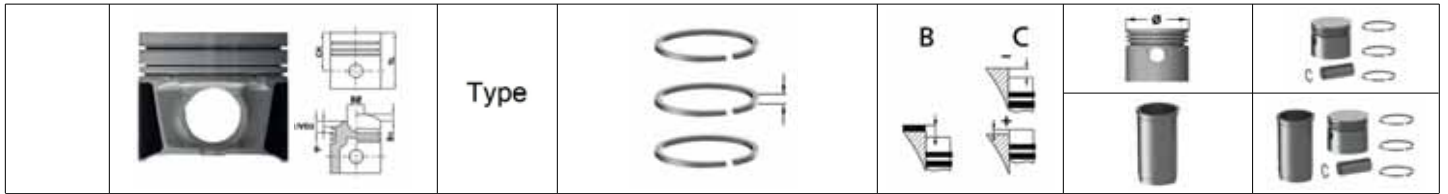


97,500

OM 304.900-001 / -014 / -401 / -410	D	1985	4 Cyl	3972cc	61-85kW	(83-115ps)
OM 306.900-016 / -017 / -018 / -413 / -414 / -415 / -416 / -417	D	1984	6 Cyl	5958cc	92-125kW	(125-170ps)
OM 356A.940	D	1989	1993	6 Cyl	5958cc	116-129kW (158-175ps)
OM 356LA.984-985	D	1985	1994	6 Cyl	5958cc	155kW (211ps)
OM 364A.901-400 / 950-952 / 954 / 980	D	1984	2001	4 Cyl	3972cc	66-100kW (90-136ps)
OM 364LA.901-500 / 981 / 984	D	1987		4 Cyl	3972cc	100kW (136ps)
OM 366A.901-400 / 944-949 / 951-955 / 957-958 / 960 / 962-963 / 965-971 / 973-979	D	1984	2001	6 Cyl	5958cc	92-129kW (125-175ps)
OM 366LA.901-500-540-541 / 980-981 / 983-984 / 988 / 990 / 992-997	D	1984		6 Cyl	5958cc	136-177kW (185-240ps)
OM 370.950-951	D	1985		4 Cyl	3972cc	85kW (115ps)
OM 372A.950-951 / 953 / 956 / 958	D			6 Cyl	5958cc	100-125kW (136-170ps)
OM 376A.945-947 / 950-951 / 953-958 / 961-962 / 964	D	1988		6 Cyl	5958cc	66-131kW (90-177ps)
OM 376LA.911(500-516) / 941-963	D	1988		6 Cyl	5958cc	125-170kW (170-230ps)
OM 380.942	D	1985		4 Cyl	3972cc	85kW (115ps)
OM 382.913 / 919 / 971	D	1988		6 Cyl	5958cc	125-150kW (170-204ps)
OM 384.907	D	1985		4 Cyl	3972cc	85kW (115ps)
OM 386A.951-952	D	1988		6 Cyl	5958cc	125kW (170ps)
OM 386LA.980-981 / 983	D	1985		6 Cyl	5958cc	150kW (204ps)
OM 390A.900(-006 / -007 / -405 / -407)	D	1973		6 Cyl	5958cc	100-127kW (136-173ps)
OM 390LA.900(-505 / -506 / -508)	D	1984		6 Cyl	5958cc	138-150kW (185-204ps)

<p>11-01642-000 CH 62,800 B- 22,350 BØ 56,000 TL 107,800</p> <p> 36,00x82,50</p>	AP	<p>91-09640-000</p> <p>1 2,500 Mo 2 2,500 CR 3 4,000 CR</p>	-0,07/+0,30	<p>Ø 97,500</p> <p>Ø 98,000</p>	<p>31-03642-000</p> <p>31-03642-050</p>
<p>K=100,40 L=222,00 H=5,10 D=103,50</p>	DS			51-65638-000	
<p>K=101,00 L=222,00 H=5,10 D=104,00</p>	DS +0,50			51-65638-050	
<p>K=100,49 L=224,00</p>	DS			51-65639-000	

		Type				
	K=100,49 L=222,00 H=4,50 D=103,50	DS			51-65640-000	
	K=100,75 L=222,00 H=5,20 D=103,75	DS +0,25			51-65640-025	
	K=101,05 L=222,00 H=6,00 D=104,00	DS +0,50			51-65640-050	
	K=101,50 L=222,00 H=6,00 D=104,50	DS +1,00			51-65640-100	
	K=102,05 L=222,00 H=6,00 D=105,00	DS +1,50			51-65640-150	



97,500

OM 356.913 Euro1	D	6 Cyl	5958cc	100kW	(136ps)
OM 364.900 / -000	D 1984	4 Cyl	3972cc	kW	(ps)
OM 364.900-040 / 906-909 / 911-913	D	4 Cyl	3972cc	49-66kW	(67-90ps)
OM 366.900 / -000 / 905-910 / 912-914 / 917-919 / 930-933 / 935-937 / 940	D	6 Cyl	5958cc	kW	(ps)
OM 366.938 Euro1	D	6 Cyl	5958cc	92-102kW	(125-139ps)
OM 370.905	D	4 Cyl	3972cc	66kW	(90ps)
OM 370.952	D	4 Cyl	3972cc	80kW	(110ps)
OM 372.906-907 / 930	D	6 Cyl	5958cc	100kW	(136ps)
OM 376.905-909 / 910-005 / -006 / -007 / -008 / -010 / -011 / -012 / -013 / -014 / -015 / -019 / 930	D	6 Cyl	5958cc	69-100kW	(94-136ps)
OM 376.980-982 / 987-989 / 998-999(USA)	D	6 Cyl	5958cc	127-142kW	(170-190ps)
OM 382.912	D	6 Cyl	5958cc	100kW	(136ps)
OM 384.906	D	4 Cyl	3972cc	66kW	(90ps)
OM 390.900-509(AMS)	D	6 Cyl	5958cc	156kW	(210ps)

<p>11-02714-000 CH 62,800 *CH 62,500 B- 24,200 *B- 24,200 BØ 48,000 *BØ 48,000 TL 107,800 *TL 107,500</p> <p>* For Oversize Piston Dimensions</p> <p> 36,00x82,50</p>	AP	<p>91-09640-000</p> <p>1 2,500 Mo 2 2,500 CR 3 4,000 CR</p>	-0,07/+0,30	<p>Ø 97,500</p> <p>Ø 98,000</p>	<p>31-04714-000</p> <p>31-04714-050</p>
<p>K=100,40 L=222,00 H=5,10 D=103,50</p>	DS			51-65638-000	
<p>K=101,00 L=222,00 H=5,10 D=104,00</p>	DS +0,50			51-65638-050	
<p>K=100,49 L=224,00</p>	DS			51-65639-000	
<p>K=100,49 L=222,00 H=4,50 D=103,50</p>	DS			51-65640-000	
<p>K=100,75 L=222,00 H=5,20 D=103,75</p>	DS +0,25			51-65640-025	

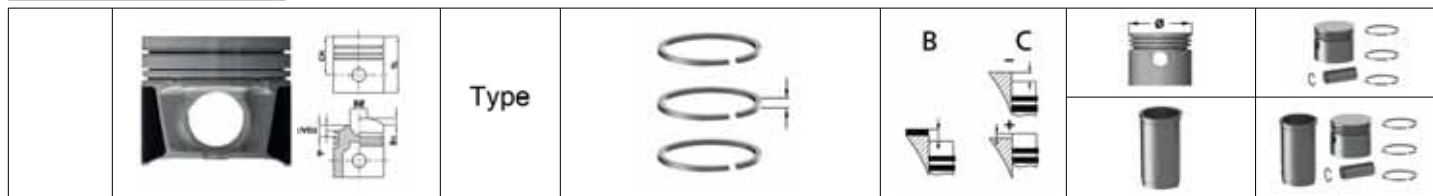


Diagram	Dimensions	Type	Part Number
	K=101,05 L=222,00 H=6,00 D=104,00	DS +0,50	51-65640-050
	K=101,50 L=222,00 H=6,00 D=104,50	DS +1,00	51-65640-100
	K=102,05 L=222,00 H=6,00 D=105,00	DS +1,50	51-65640-150

97,500

OM 356.901-912 / 914-916 Euro1	D	6 Cyl	5958cc	95kW	(129ps)
OM 364.900-004 / 918-921 Euro1	D	4 Cyl	3972cc	kW	(ps)
OM 366.900-004 / 911TUR / 915 Euro1	D	6 Cyl	5958cc	kW	(ps)

Diagram	Dimensions	Type	Part Number
	11-02734-000 CH 62,800 *CH 62,500 B- 24,000 *B- 24,000 BØ 43,400 *BØ 43,400 TL 107,800 *TL 107,500 * For Oversize Piston Dimensions 36,00x82,50	AP	91-09734-000 1 2,500 CR 2 2,500 CR 3 4,000 CR

31-04734-000
31-04734-050
31-04734-100

	K=100,40 L=222,00 H=5,10 D=103,50	DS	51-65638-000
	K=101,00 L=222,00 H=5,10 D=104,00	DS +0,50	51-65638-050

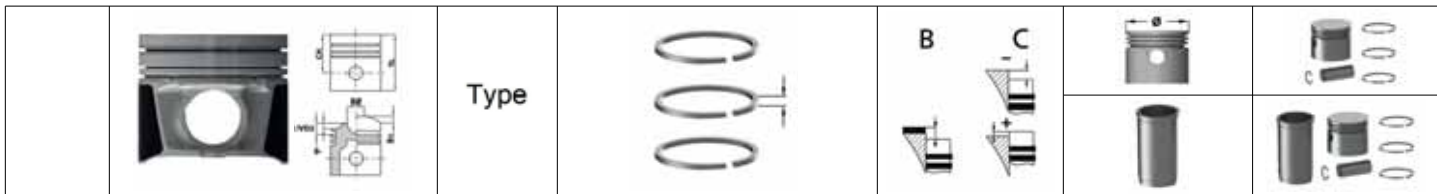
102,000

OM 906 LA Euro 5	D	6 Cyl	6370cc	210kW	(286ps)
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Diagram	Dimensions	Type	Part Number
	11-02678-000 CH 64,400 B- 13,900 BØ 73,200 TL 102,400 42,00x80,00	AP YS HA	91-09713-000 1 3,500 CdC 2 2,500 CR 3 4,000 CdC

Ø 102,000 31-04678-000

	K=106,12 L=220,00 H=6,15 D=109,50	DS	51-65655-000
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102,000

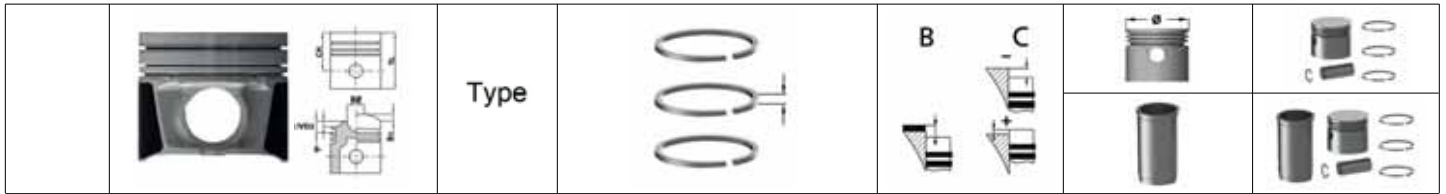
OM 904 LA Euro4	D	2008	4 Cyl	4250cc	115-130kW	(156-177ps)
OM 906 LA Euro4	D	2008	6 Cyl	6370cc	175-210kW	(238-286ps)

<p>11-02679-000 CH 64,400 B- 13,900 BØ 73,200 TL 102,400</p> <p>42,00x80,00</p>	AP	<p>91-09713-000</p> <p>1 3,500 CdC</p> <p>2 2,500 CR</p> <p>3 4,000 CdC</p>		Ø 102,000	31-04679-000
	HA				

102,000

OM 902.937 / 938 Euro3	D		4 Cyl	4250cc	180kW	(245ps)
OM 904.904 / 905 Euro2	D		4 Cyl	4250cc	75kW	(102ps)
OM 904.906 Euro2	D		4 Cyl	4250cc	100kW	(136ps)
OM 904.907-912 Euro2	D		4 Cyl	4250cc	125kW	(170ps)
OM 904.914-951 Euro2	D		4 Cyl	4250cc	90-142kW	(122-190ps)
OM 904.952 Euro2	D	2002	4 Cyl	4250cc	130kW	(177ps)
OM 904.953-957 / 959 / 961-962 / 964-968 Euro2	D		4 Cyl	4250cc	110kW	(150ps)
OM 904.972 / 974 / 977-978 / 980-981 Euro2	D		4 Cyl	4250cc	110-130kW	(150-177ps)
OM 906.910-941 / 944-968USA / MEX / 970-971 / 974-983USA / MEX / 985 / 988 Euro2	D		6 Cyl	6374cc	142-224kW	(190-300ps)
OM 907.910 / 920 / 930 / 940-941 / 960 / 970 / 980 / 990 Euro2	D		4 Cyl	4250cc	75-125kW	(102-170ps)
OM 909.900-901 / 910-911 / 920-921 / 960 / 970-971 Euro2	D		6 Cyl	6374cc	170-205kW	(231-279ps)

<p>11-02740-000 CH 64,400 B- 13,800 BØ 73,300 TL 102,500</p> <p>42,00x80,00</p>	AP	<p>91-09740-000</p> <p>1 3,000 CkP</p> <p>2 2,500 CrP</p> <p>3 4,000 CrP</p>	+0,28/+0,50	Ø 102,000 Ø 102,500	31-04740-000 31-04740-050
<p>K=106,12 L=220,00 H=6,15 D=109,50</p>	DS			51-65655-000	71-07017-000
<p>K=106,62 L=220,00 H=6,65 D=110,00</p>	DS +0,50			51-65655-050	
<p>K=107,12 L=220,00 H=7,15 D=110,50</p>	DS +1,00			51-65655-100	



102,000							
OM 902.937 / 938 Euro3		D	4 Cyl	4250cc	180kW	(245ps)	
OM 904.904 / 905 Euro2		D	4 Cyl	4250cc	75kW	(102ps)	
OM 904.906 Euro2		D	4 Cyl	4250cc	100kW	(136ps)	
OM 904.907-912 Euro2		D	4 Cyl	4250cc	125kW	(170ps)	
OM 904.914-951 Euro2		D	4 Cyl	4250cc	90-142kW	(122-190ps)	
OM 904.952 Euro2		D 2002	4 Cyl	4250cc	130kW	(177ps)	
OM 904.953-957 / 959 / 961-962 / 964-968 Euro2		D	4 Cyl	4250cc	110kW	(150ps)	
OM 904.972 / 974 / 977-978 / 980-981 Euro2		D	4 Cyl	4250cc	110-130kW	(150-177ps)	
OM 906.910-941 / 944-968USA / MEX / 970-971 / 974-983USA / MEX / 985 / 988 Euro2		D	6 Cyl	6374cc	142-224kW	(190-300ps)	
OM 907.910 / 920 / 930 / 940-941 / 960 / 970 / 980 / 990 Euro2		D	4 Cyl	4250cc	75-125kW	(102-170ps)	
OM 909.900-901 / 910-911 / 920-921 / 960 / 970-971 Euro2		D	6 Cyl	6374cc	170-205kW	(231-279ps)	

<p>11-02742-000 CH 64,400 B- 13,900 BØ 73,230 TL 102,400</p> <p>40,00x78,00</p>	AP	<p>91-09740-000</p> <p>1 3,000 CkP 2 2,500 CrP 3 4,000 CrP</p>		Ø 102,000	31-04742-000
<p>K=106,12 L=220,00 H=6,15 D=109,50</p>	DS			51-65655-000	
<p>K=106,62 L=220,00 H=6,65 D=110,00</p>	DS +0,50			51-65655-050	
<p>K=107,12 L=220,00 H=7,15 D=110,50</p>	DS +1,00			51-65655-100	

	Type				
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102,000

OM 904LA Euro2 BRAZIL	D	1998	4 Cyl	4250cc	90-130kW	(122-177ps)
OM 906LA Euro2 BRAZIL	D	1998	6 Cyl	6374cc	167-209kW	(210-284ps)

	11-02749-000 CH 64,400 B- 13,900 BØ 73,230 TL 101,200	AP	91-09740-000 1 3,000 CrP 2 2,500 CrP 3 4,000 CrP		Ø 102,000	31-04749-000
	40,00x78,00					

	K=106,12 L=220,00 H=6,15 D=109,50	DS			51-65655-000	
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102,000

OM 904LA Euro2 BRAZIL	D	1998	4 Cyl	4250cc	90-130kW	(122-177ps)
OM 906LA Euro2 BRAZIL	D	1998	6 Cyl	6374cc	167-209kW	(210-284ps)

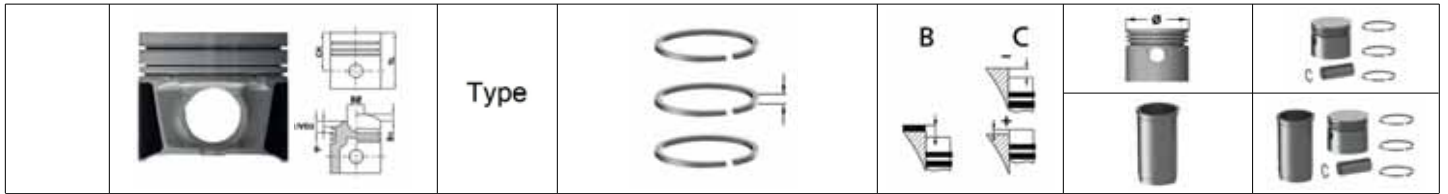
	11-02750-000 CH 64,400 B- 13,900 BØ 73,230 TL 101,200	AP	91-09740-000 1 3,000 CrP 2 2,500 CrP 3 4,000 CrP		Ø 102,000	31-04750-000
	42,00x80,00					

	K=106,12 L=220,00 H=6,15 D=109,50	DS			51-65655-000	
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102,000







OM 902 / 904 Euro2-3	D		4 Cyl	4250cc	90-130kW	(122-177ps)
OM 906 Euro2-3	D		6 Cyl	6374cc	142-206kW	(190-281ps)

	11-02759-000 CH 64,400 B- 13,130 BØ 72,920 TL 101,200	AP	91-09740-000 1 3,000 CrP 2 2,500 CrP 3 4,000 CrP		Ø 102,000	31-04759-000
	42,00x80,00					









106,000

M 902.900	D	1998	6 Cyl	7201cc	205kW	(279ps)
M 902.901	D	1996	6 Cyl	7201cc	170-205kW	(231-279ps)
M 902.902	D		6 Cyl	7201cc	170-205kW	(231-279ps)
M 902.903	D	1998	6 Cyl	7201cc	205kW	(279ps)
M 906.900 Euro 3	D	2000	6 Cyl	7201cc	205kW	(279ps)
M 906.901 Euro 2	D		6 Cyl	7201cc	205kW	(279ps)
M 906.903 Euro 2	D		6 Cyl	6374cc	205kW	(279ps)


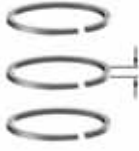
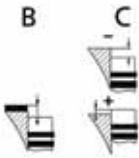

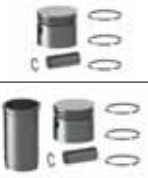



  	<p>11-02586-000 CH 64,400 B- 22,500 BØ 80,300 TL 101,200</p> <p>42,00x80,00</p>	<p>AP</p>	<p>91-09631-000 1 3,000  CK 2 2,500  CR 3 4,000  CR</p>		<p>Ø 106,000 Ø 106,500 Ø 107,000</p>	<p>31-04586-000 31-04586-050 31-04586-100</p>

106,000

OM 924.917 / 925 / 929 / 933 Euro3	D		4 Cyl	4800cc	142kW	(190ps)
OM 926.916 Euro3	D		6 Cyl	7201cc	240kW	(326ps)
OM 926.920 Euro3	D		6 Cyl	7201cc	209-224kW	(280-300ps)
OM 926.927 Euro3	D		6 Cyl	7201cc	187kW	(250ps)
OM 926.928 Euro3	D		6 Cyl	7201cc	187-209kW	(250-280ps)
OM 926.942 Euro3	D		6 Cyl	7201cc	224kW	(300ps)
OM 926.950 Euro3	D		6 Cyl	7201cc	194kW	(260ps)
OM 926.961 / 963 Euro4 / 5	D	2007	6 Cyl	7201cc	kW	(ps)







  	<p>11-02754-000 CH 61,400 B- 12,500 BØ 80,000 TL 98,400</p> <p>42,00x80,00</p>	<p>AP YS</p>	<p>91-09754-000 1 3,000  CK 2 2,500  CR 3 4,000  CR</p>		<p>Ø 106,000</p>	<p>31-04754-000</p>

	<p>K=110,00 L=220,00</p>	<p>DS</p>			<p>51-65736-000</p>	
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	Type				
					







106,000


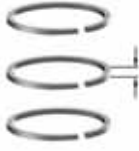
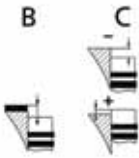


OM 924.911	D	2001	4 Cyl	4800cc	160kW	(218ps)
OM 926.911 Euro3	D		6 Cyl	7201cc	240kW	(326ps)
OM 926.912	D	2000	6 Cyl	7201cc	240kW	(326ps)

	11-02755-000 CH 61,400 B- 13,400 BØ 78,500 TL 98,400	AP YS	91-09754-000 1 3,000  CK 2 2,500  CR 3 4,000  CR		Ø 106,000	31-04755-000
	42,00x80,00					
	K=110,00 L=220,00	DS			51-65736-000	

106,000

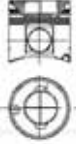




OM 924.913 / 915-916 / 919-920 / 924 / 928 / 932 Euro3	D		4 Cyl	4800cc	145-160kW	(187-218ps)
OM 926.913-915 / 917 / 921 / 924 / 926 / 929-930 / 932-933 / 935 / 938 / 940-94' Euro3	D		6 Cyl	7201cc	187-240kW	(250-236ps)
OM 926.968 Euro4 / 5	D		6 Cyl	7201cc	225kW	(306ps)

	11-02756-000 CH 61,400 B- 14,190 BØ 76,000 TL 98,400	AP YS HA	91-09754-000 1 3,000  CK 2 2,500  CR 3 4,000  CR		Ø 106,000	31-04756-000
	42,00x80,00					
	K=110,00 L=220,00	DS			51-65736-000	

	Type				
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106,000

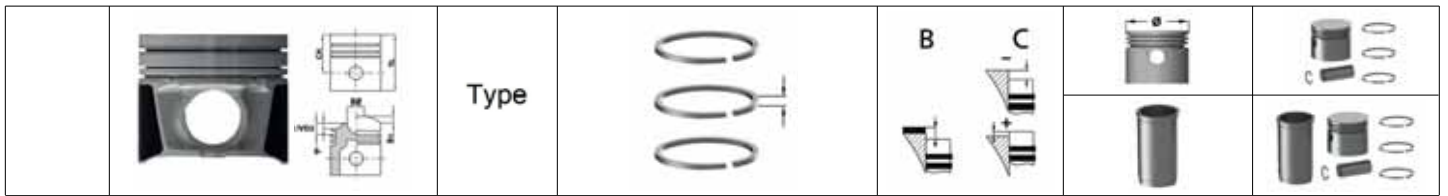
OM 924.927 Euro 5	D	4 Cyl	4800cc	160kW	(218ps)
OM 924.930 Euro 5	D 2006	4 Cyl	4800cc	160kW	(218ps)
OM 924.931 Euro 5	D 2006	4 Cyl	4800cc	160kW	(218ps)
OM 926.945 Euro 5	D	6 Cyl	7201cc	240kW	(326ps)
OM 926.946 Euro 5	D	6 Cyl	7201cc	210-240kW	(286-326ps)
OM 926.947 Euro 5	D	6 Cyl	7201cc	240kW	(326ps)
OM 926.948 Euro 5	D	6 Cyl	7201cc	240kW	(326ps)
OM 926.949 Euro 4	D	6 Cyl	7201cc	210kW	(286ps)

 11-02762-000 CH 61,400 B- 15,670 BØ 72,300 TL 99,400  44,00x85,00	AP YS	91-09696-000 1 3,500  CK	Ø 106,000 Ø 106,300 Ø 106,600	31-04762-000 31-04762-030 31-04762-060
		2 2,500  CR 3 4,000  CK		

106,000

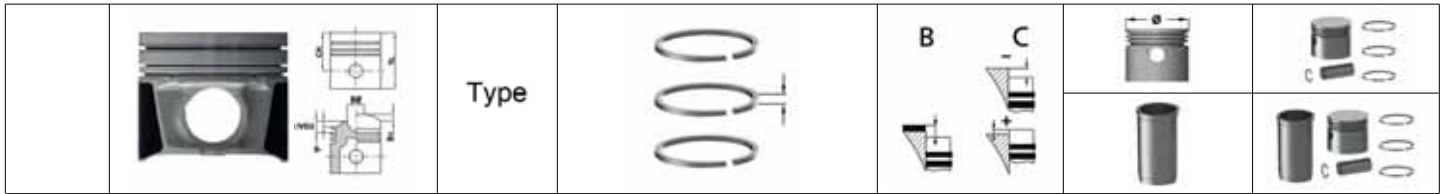
OM 924.927-931-945-946-947-948 Euro 5 / 926.960 Euro 4/5	D	6 Cyl	7201cc	kW	(ps)
OM 924.930 Euro 5	D 2006	4 Cyl	4800cc	160kW	(218ps)
OM 926.945 / 947 Euro 5	D	6 Cyl	7201cc	240kW	(326ps)

 11-02763-000 CH 61,400 B- 15,670 BØ 72,300 TL 99,400  44,00x85,00	AP YS	91-09696-000 1 3,500  CK	Ø 106,000 Ø 106,300 Ø 106,600	31-04763-000 31-04763-030 31-04763-060
		2 2,500  CR 3 4,000  CK		




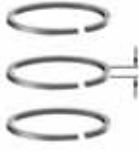
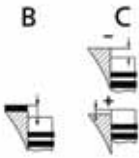

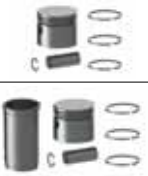
115,000		OM 360.910-912 / 914-915 / 916-918 / 930-931 / 933-944 / 946-952 / 954-956 / 959-978 / 979-981 / 983	D	1968	6 Cyl	8725cc	81-141kW	(110-192ps)
		OM 360.982 / 984-986	D	1978	6 Cyl	8725cc	141-154kW	(192-210ps)

<p>11-01641-000 CH 85,300 VD1 0,700 VD2 0,700 B- 22,000 BØ 65,000 TL 133,300</p> <p> 42,00x98,00</p>	AP	<p>91-09641-000</p> <p>1 3,500 CR 2 3,000 CrP 3 5,500 CR</p>	+0,08/+0,41	<p>Ø 115,000</p> <p>Ø 115,500</p> <p>Ø 116,000</p>	<p>31-03641-000</p> <p>31-03641-050</p> <p>31-03641-100</p>
<p>K=120,06 L=253,50 H=6,00 D=124,90</p>	DS			51-65641-000	
<p>K=120,50 L=253,50 H=7,00 D=125,40</p>	DS +0,50			51-65641-050	
<p>K=121,06 L=253,50 H=7,00 D=125,90</p>	DS +1,00			51-65641-100	
<p>K=122,06 L=253,50 H=7,00 D=126,90</p>	DS +2,00			51-65641-200	
<p>K=120,06 L=253,50 H=5,50 D=124,90</p>	DS			51-65642-000	
<p>K=120,07 L=253,50 H=5,75 D=125,00</p>	DS			51-65742-000	









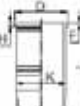
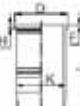
125,000						
OM 401.901 / 924	D	1973	6 Cyl	10456cc	144kW	(196ps)
OM 402.901 / -000	D		8 Cyl	13941cc	kW	(ps)
OM 403.911 / -000 / 933 / 935	D	1972	10 Cyl	15960cc	261kW	(355ps)
OM 404.901 / -000 / 918	D	1973	1989	12 Cyl	20911cc	236kW (320ps)

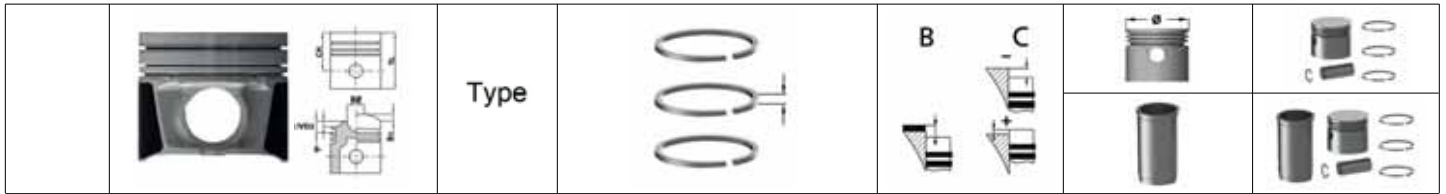
<p>11-01628-000 CH 81,250 B- 24,500 BØ 69,000 TL 126,250</p> <p>46,00x97,00</p>	AP	<p>91-09643-000</p> <p>1 3,000 Mo 2 3,000 Mo 3 6,000 CR</p>	+0,07/+0,43	Ø 125,000	31-03628-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05616-000 52-05616-000	71-07039-000 72-07039-000
<p>K=139,95 L=253,00 H+F=9,92+1,00 D=151,95</p>	WF-PH			51-05617-000	71-07037-000
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF-PH		O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80	51-05643-000 52-05643-000	71-07628-000 72-07628-000
<p>K=144,45 L=253,00 H+F=10,05+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05644-000 52-05644-000	71-07038-000 72-07038-000
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF-CR			51-05680-000	71-07125-000
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF		O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80	51-05734-000 52-05734-000	71-07633-000 72-07633-000

	Type				
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125,000

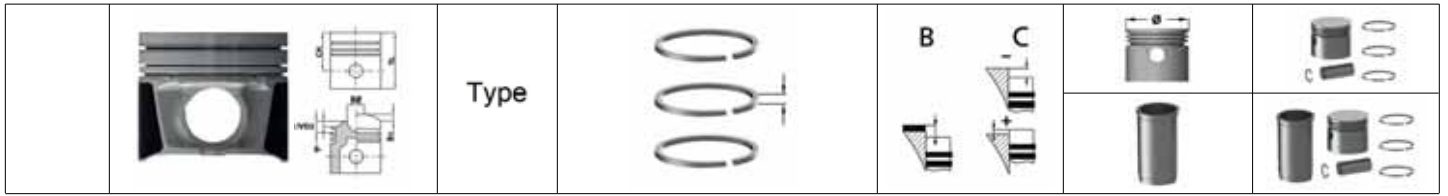
OM 407.901 / 913 / 915 / 916 / 917 / 919 / 920 / 930 / 932	D	1980	6 Cyl	11412cc	147-177kW	(200-240ps)
OM 409.901-000 / 906 / 908	D	1985	5 Cyl	9204cc	135kW	(183ps)
OM 495.900 / 900-002 / 900-003 / 900-009 / 900-010	D		5 Cyl	9204cc	135kW	(183ps)
OM 496.900-001 / 002 / 003 / 023 / 026 / 027 / 030 / 031 / 034 / 035 / 201	D		6 Cyl	11412cc	147-162kW	(200-220ps)

	<p>11-01629-000 CH 84,850 B- 23,000 BØ 75,000 TL 139,850</p>  46,00x97,00	AP	<p>91-09643-000 1 3,000  Mo 2 3,000  Mo 3 6,000  CR</p>		Ø 125,000	31-03629-000
	<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF-PH		<p>O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80</p>	<p>51-05643-000 52-05643-000</p>	<p>71-07630-000 72-07630-000</p>
	<p>K=139,95 L=265,00 H+F=10,07+1,00 D=151,95</p>	WF		<p>O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80</p>	<p>51-05646-000 52-05646-000</p>	<p>71-07629-000 72-07629-000</p>
	<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF		<p>O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80</p>	<p>51-05734-000 52-05734-000</p>	<p>71-07634-000 72-07634-000</p>



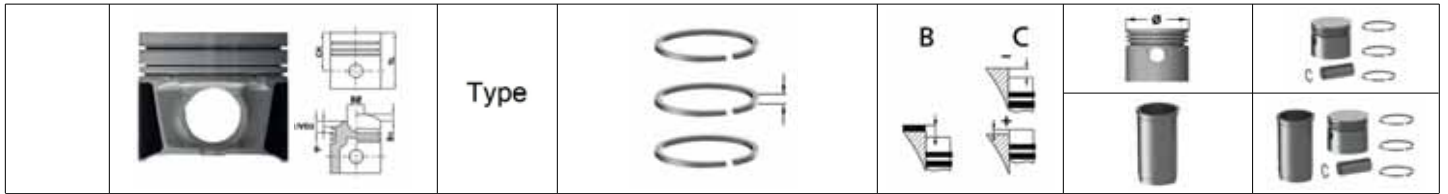
125,000									
OM 401.905-909 / 912-918 / 921-923 / 925-928	D	1972	1987	6 Cyl	9572cc	129-141kW	(175-192ps)		
OM 402.900	D			8 Cyl	12760cc	147-180kW	(188-245ps)		
OM 402.905 / 915-919 / 930-932 / 934	D	1970	1985	10 Cyl	15960cc	236kW	(320ps)		
OM 402.910 / 911 / 913 / 914 / 917 / 921 / 923 / 927 / 928	D			8 Cyl	12760cc	177kW	(240ps)		
OM 402.924-926	D	1972	1985	8 Cyl	12760cc	188kW	(256ps)		

<p>11-01643-000 CH 87,250 B- 23,500 BØ 65,000 TL 137,250</p> <p>46,00x97,00</p>	AP	<p>91-09643-000</p> <p>1 3,000 Mo 2 3,000 Mo 3 6,000 CR</p>	+0,07/+0,43	Ø 125,000	31-03643-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05616-000 52-05616-000	71-07002-000 72-07002-000
<p>K=139,95 L=253,00 H+F=9,92+1,00 D=151,95</p>	WF-PH			51-05617-000	71-07040-000
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF-PH		O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80	51-05643-000 52-05643-000	71-07643-000 72-07643-000
<p>K=144,45 L=253,00 H+F=10,05+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05644-000 52-05644-000	71-07041-000 72-07041-000
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF-CR			51-05680-000	71-07100-000
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	WF		O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80	51-05734-000 52-05734-000	71-07635-000 72-07635-000



125,000										
OM 407.900 / -000			D	1982	1989	6 Cyl	11040cc	kW	(ps)	
OM 407.900 / 907 / 909-911			D	1973	1989	6 Cyl	11040cc	155kW	(210ps)	
OM 407.905 / 908			D	1973	1986	6 Cyl	11040cc	132kW	(180ps)	
OM 407.954 (AFS)			D	1973	1983	6 Cyl	11040cc	235kW	(320ps)	
OM 407.954 (AFS)			D			6 Cyl	11040cc	235kW	(320ps)	

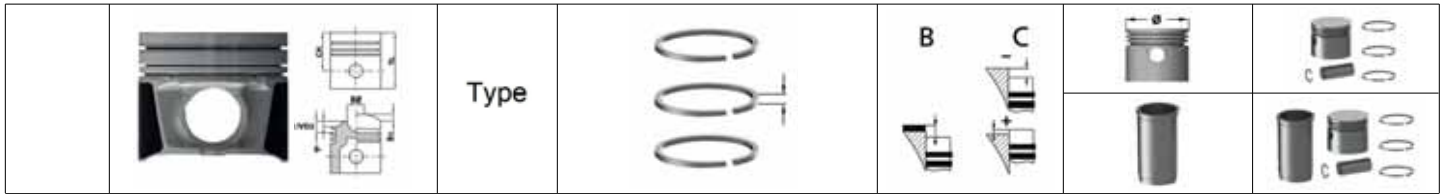
	11-01644-000 CH 87,250 B- 25,400 BØ 70,000 TL 137,250	AP	91-09643-000 1 3,000 Mo 2 3,000 Mo 3 6,000 CR	Ø 125,000	31-03644-000
	46,00x97,00				
	K=139,95 L=265,00 H+F=10,07+1,00 D=151,95	WF	O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80	51-05646-000 52-05646-000	71-07644-000 72-07644-000



125,000






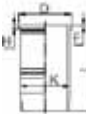

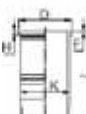
OM 401.901-504 Euro1	D	1992	6 Cyl	9572cc
OM 401.970 Euro1	D	1991	6 Cyl	9572cc
OM 401.972 / 979 / 981 / 986 / 987 / 993	D		6 Cyl	9572cc
OM 401.973 / 974 / 977 / 978 / 980 / 985 / 989 / 991	D		6 Cyl	9572cc
OM 401.975 / 976 / 984 / 990 / 994	D		6 Cyl	9572cc
OM 402.901 / -504 Euro1	D		8 Cyl	12760cc
OM 402.970-973 / 975 / 977 / 978 / 980-990 / 995 / 996	D		8 Cyl	12760cc
OM 402.974 Euro1	D		8 Cyl	12760cc
OM 402.976 Euro1	D		8 Cyl	12760cc

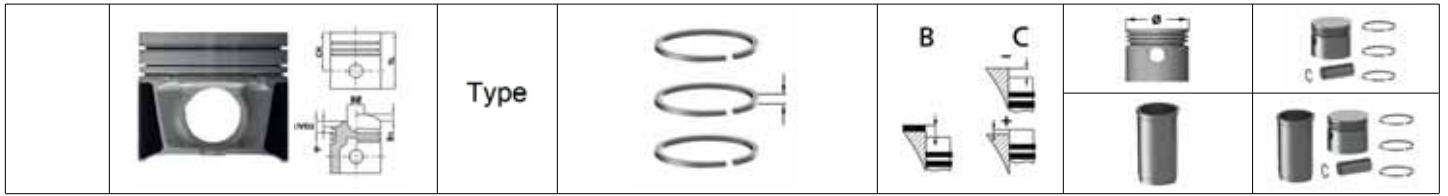
<p>11-01645-000 CH 87,350 B- 25,000 BØ 68,300 TL 133,350</p> <p>46,00x102,00</p>	<p>AP</p> <p>HA</p>	<p>91-09645-000</p> <p>1 3,000 Mo 2 3,000 CR 3 4,000 CrP</p>	<p>+0,07/+0,43</p>	<p>Ø 125,000</p>	<p>31-03645-000</p>
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	<p>WF-PH</p>		<p>O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05616-000 52-05616-000</p>	<p>71-07645-000 72-07645-000</p>
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	<p>WF-PH</p>		<p>O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80</p>	<p>51-05643-000 52-05643-000</p>	<p>71-07130-000 72-07130-000</p>
<p>K=139,95 L=253,00 H+F=10,07+0,90 D=151,95</p>	<p>WF</p>		<p>O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80</p>	<p>51-05734-000 52-05734-000</p>	<p>71-07636-000 72-07636-000</p>



125,000

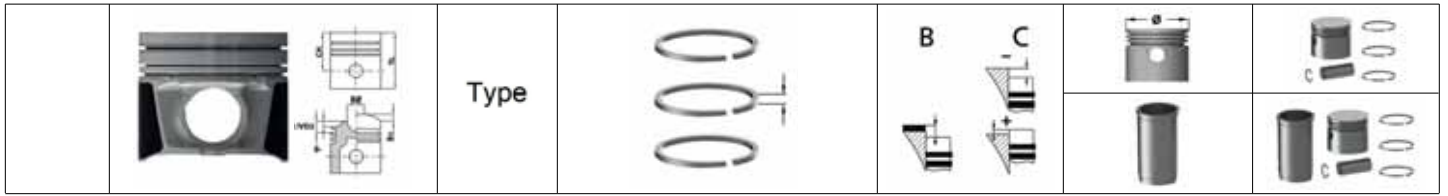
OM 401.901-504 Euro1	D	1992	6 Cyl	9572cc
OM 401.970 Euro1	D	1991	6 Cyl	9572cc
OM 401.972 / 979 / 981 / 986 / 987 / 993	D		6 Cyl	9572cc
OM 401.973 / 974 / 977 / 978 / 980 / 985 / 989 / 991	D		6 Cyl	9572cc
OM 401.975 / 976 / 984 / 990 / 994	D		6 Cyl	9572cc
OM 402.901 / -504 Euro1	D		8 Cyl	12760cc
OM 402.970-973 / 975 / 977 / 978 / 980-990 / 995 / 996	D		8 Cyl	12760cc
OM 402.974 Euro1	D		8 Cyl	12760cc
OM 402.976 Euro1	D		8 Cyl	12760cc

 11-02725-000 CH 87,350 B- 25,000 BØ 68,300 TL 133,350  46,00x102,00	AP	91-09645-000 1 3,000  Mo 2 3,000  CR 3 4,000  CrP		Ø 125,000	31-04725-000
 K=144,45 L=253,00 H+F=9,92+1,00 D=153,70	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05616-000 52-05616-000	71-08725-000 72-08725-000
 K=139,95 L=253,00 H+F=10,07+0,90 D=151,95	WF-PH		O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80	51-05643-000 52-05643-000	71-08726-000 72-08726-000
 K=139,95 L=253,00 H+F=10,07+0,90 D=151,95	WF		O-Ring/Seal 55-50501-000 2 FPM 138,00x1,90 2 FPM 140,00x3,80	51-05734-000 52-05734-000	71-07637-000 72-07637-000



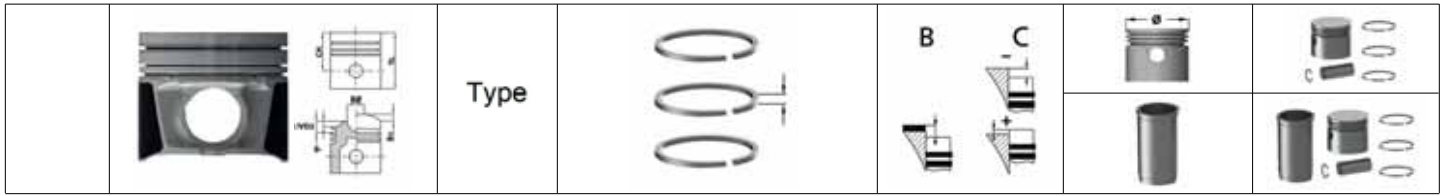
128,000			
OM 460.900 Euro3	D	6 Cyl	12816cc
OM 460.901 Euro3	D	6 Cyl	12816cc
OM 460.902 / 903 Euro3	D	6 Cyl	12816cc
OM 460.904 / 905 Euro3	D	6 Cyl	12816cc
OM 460.906 / 909 / 910 / 912 / 915 / 916 / 918 / 922Euro3	D	6 Cyl	12816cc
OM 460.907 Euro3	D	6 Cyl	12816cc
OM 460.908 Euro3	D	6 Cyl	12816cc
OM 460.911 / 913 / 914 / 917 / 919 / 921 / 923 / 925 / 929 / 931 Euro3	D	6 Cyl	12816cc

<p>11-01632-000 CH 79,550 B- 17,750 BØ 93,100 TL 126,550</p> <p>52,00x103,00</p>	AP YS HA PDB	<p>91-09719-000</p> 1 3,000 CkP St 2 3,000 CrP 3 4,000 CkP	Ø 128,000 31-03632-000	
<p>K=144,50 L=266,00 H+F=10,12+1,10 D=155,50</p>	WF-CR		O-Ring/Seal 55-50503-000 1 SM 146,00x155,00x0,15 2 FPM 144,00x154,00x7,00	51-05615-000 52-05615-000 71-08767-000 72-08767-000
<p>K=144,50 L=266,00 H+F=10,12+1,10 D=155,50</p>	WF		O-Ring/Seal 55-50503-000 1 SM 146,00x155,00x0,15 2 FPM 144,00x154,00x7,00	51-05628-000 52-05628-000 71-07652-000 72-07652-000








128,000	
OM 421.900-000 / 901-410 / 901-500 / 901-510	D 1979 6 Cyl 10965cc kW (ps)
OM 421.905-910 / 923 / 967	D 1979 6 Cyl 10965cc 159kW (216ps)
OM 421.951	D 1985 1989 6 Cyl 10965cc 184kW (250ps)
OM 422.900 / -000 / -400 / -500	D 8 Cyl 14618cc kW (ps)
OM 422.905-923	D 8 Cyl 14618cc 184-206kW (250-280ps)
OM 422.951 / 952 / 954 / 956	D 1979 8 Cyl 14618cc 243kW (330ps)
OM 422.953 / 955	D 1980 8 Cyl 14618cc 276kW (375ps)
OM 423.900 / -000 / -400 / -500	D 10 Cyl 18273cc kW (ps)
OM 423.905-909	D 1981 10 Cyl 18273cc 261kW (355ps)
OM 423901-510 / 901	D 10 Cyl 18273cc 346kW (470ps)
OM 424.900 / -000 / -400 / -500	D 1980 12 Cyl 21930cc kW (ps)
OM 481.902 / 904(TUR)	D 6 Cyl 10965cc 159kW (216ps)
OM 481.912 / 930(TUR)	D 1980 6 Cyl 10965cc 206kW (280ps)
OM 481.940 / 941(TUR)	D 6 Cyl 10965cc 269kW (366ps)
OM 482.940 / 941(TUR)	D 1991 8 Cyl 14618cc 269kW (366ps)
OM 493.900-001(AFS)	D 10 Cyl 18273cc 261kW (355ps)






<p>11-01650-000 CH 81,350 B- 24,100 BØ 70,000 TL 126,350</p> <p> 46,00x99,00</p>	AP	<p>91-09704-000</p> <p>1 3,000 Mo 2 3,000 MoP 3 4,000 CR</p>	-0,07/+0,43	Ø 128,000	31-03650-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05618-000 52-05618-000	71-07031-000 72-07031-000
<p>K=144,45 L=253,00 H+F=10,42+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05619-000 52-05619-000	71-07042-000 72-07042-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05650-000 52-05650-000	71-07650-000 72-07650-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05652-000 52-05652-000	71-07032-000 72-07032-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05733-000 52-05733-000	71-08771-000 72-08771-000

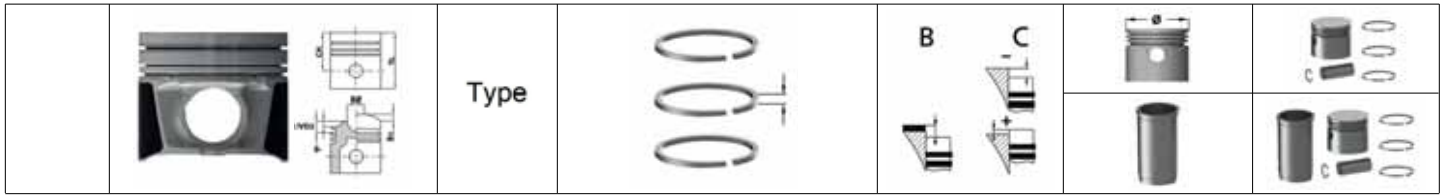


128,000
 OM 457 Euro 4/Euro 5
 .948/950-954/957/959/961/964-969/973-974/976-977/980-981







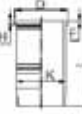
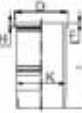

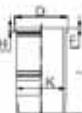
 <p>11-02681-000 CH 85,000 B- 17,700 BØ 87,000 TL 135,000</p>  52,00x103,00	AP YS PDB	<p>91-09719-000</p> 1 3,000  CkP St 2 3,000  CrP 3 4,000  CkP	+0,85/+0,71	Ø 128,000	31-04681-000
	K=144,50 L=266,00 H+F=10,12+1,10 D=155,50 X=6,50 (RING)	WF	O-Ring/Seal 55-50504-000 1 SM 146,00x155,00x0,15 2 VI 144,50x154,00x7,00 1 VI 132,50 x137,00x3,90	51-05743-000 52-05743-000	71-07028-000 72-07028-000

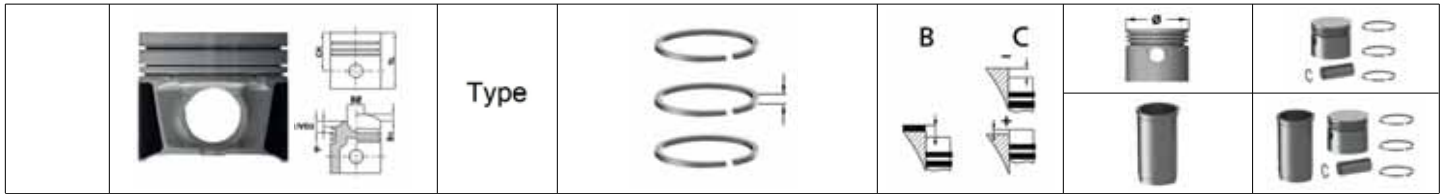
128,000
 Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston

 <p>11-02681-001 CH 84,800 B- 17,700 BØ 87,000 TL 134,800</p>  52,00x103,00	AP YS PDB	<p>91-09719-000</p> 1 3,000  CkP St 2 3,000  CrP 3 4,000  CkP		Ø 128,000	31-04681-001
	CH -0,20 mm				



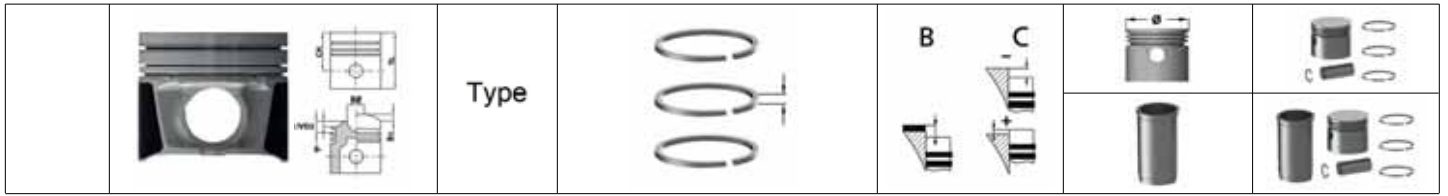
128,000	
OM 441.901 / 960-962 / 981-983 / 985	D
OM 442.941-946 / 950-953 / 957 / 959-960 / 962-966 / 968 / 971 / 972 / 974-976 / 980 / 982 / 983 / 989 / 991-994	
OM 443.901 / 901-500 / 940 / 980	D
OM 444.901 (OM 444LA)	D

 11-02704-000 CH 81,350 B- 27,500 BØ 66,200 TL 126,350  46,00x105,00	AP	91-09650-000 1 3,000  Mo 2 3,000  CR 3 4,000  CR		Ø 128,000 Ø 128,000	31-04704-000 31-04704-000
 K=144,45 L=253,00 H+F=9,92+1,00 D=153,70	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05618-000 52-05618-000	71-07023-000 72-07023-000
 K=144,45 L=253,00 H+F=10,42+1,00 D=153,70	WF		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05619-000 52-05619-000	71-07082-000 72-07082-000
 K=144,45 L=253,00 H+F=10,06+1,00 D=153,70	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05650-000 52-05650-000	71-08704-000 72-08704-000
 K=144,45 L=253,00 H+F=10,06+1,00 D=153,70	WF-CR		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05652-000 52-05652-000	71-07024-000 72-07024-000
 K=144,45 L=253,00 H+F=10,06+1,00 D=153,70	WF		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05733-000 52-05733-000	71-08773-000 72-08773-000



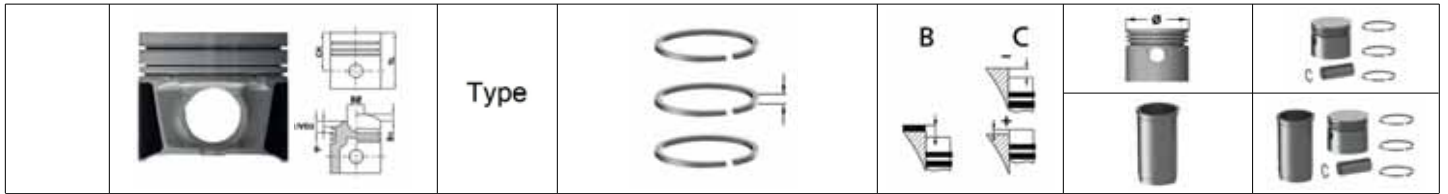
128,000	
OM 447.900 / 901 / 905-908 / 910-912	D 1985 6 Cyl 11970cc 150-184kW (204-250ps)
OM 466.900-005(AFS)	D 6 Cyl 11970cc 175kW (238ps)
OM 475.907 / 950 / 951 / 953 / 954 / 982	D 5 Cyl 9973cc 184-221kW (250-300ps)
OM 476.916 / 917 / 950 / 980-983	D 6 Cyl 11970cc 213-310kW (290-422ps)
OM 485.980(BRA)	D 5 Cyl 9973cc 221kW (300ps)

<p>11-02706-000 CH 90,000 B- 30,000 BØ 59,900 TL 140,000</p> <p>46,00x99,00</p>	<p>AP</p> <p>HA</p>	<p>91-09650-000</p> <p>1 3,000 Mo</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>		<p>Ø 128,000</p>	<p>31-04706-000</p>
<p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	<p>WF-PH</p>		<p>O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00</p>	<p>51-05651-000 52-05651-000</p>	<p>71-08706-000 72-08706-000</p>
<p>K=144,50 L=270,00 H+F=9,92+1,00 D=153,80</p>	<p>WF-PH</p>		<p>O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05657-000 52-05657-000</p>	<p>71-07022-000 72-07022-000</p>
<p>K=144,50 L=270,00 H+F=9,92+1,00 D=153,80</p>	<p>WF</p>		<p>O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05737-000 52-05737-000</p>	<p>71-07638-000 72-07638-000</p>



128,000						
OM 441.950 / 951 / 953 / 955	D	6 Cyl	10965cc	200-250kW	(272-340ps)	
OM 442.950-955 / 957 / 959-966 / 968 / 971 / 972 / 974-976 / 980 / 982 / 983 / 985 / 989 / 991-994	D	8 Cyl	14618cc	269-366kW	(354-492ps)	
OM 443.940 / 980	D	10 Cyl	18273cc	340-412kW	(462-560ps)	

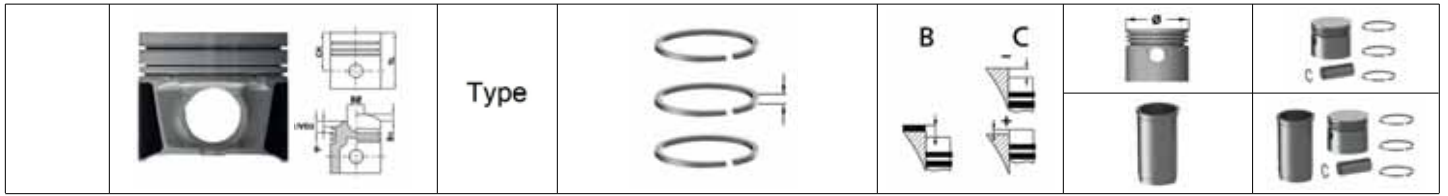
<p>11-02709-000 CH 81,450 B- 27,500 BØ 66,500 TL 126,450</p> <p>46,00x105,00</p>	AP YS HA	<p>91-09650-000</p> <p>1 3,000 Mo 2 3,000 CR 3 4,000 CR</p>	+0,17/+0,53	Ø 128,000	31-04709-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05618-000 52-05618-000	71-08709-000 72-08709-000
<p>K=144,45 L=253,00 H+F=10,42+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05619-000 52-05619-000	71-07095-000 72-07095-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05650-000 52-05650-000	71-07011-000 72-07011-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05652-000 52-05652-000	71-08745-000 72-08745-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05733-000 52-05733-000	71-08769-000 72-08769-000



128,000






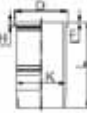


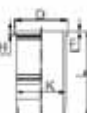
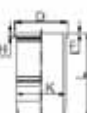
OM 441.950 / 953 / 955	D	1987	1992	6 Cyl	10965cc	200kW	(272ps)
OM 441.951 / 960-962 / 980-983 / 985-988	D			6 Cyl	10965cc	250kW	(340ps)
OM 442.969-502(USA)	D			8 Cyl	14618cc	261kW	(350ps)
OM 442.969-503(USA)	D			8 Cyl	14618cc	298kW	(400ps)
OM 442A.901 / 941-946 / 950 / 952 / 954-968 / 971 / 972 / 976	D			8 Cyl	14618cc	269kW	(366ps)
OM 442LA.951 / 953 / 980 / 982 / 983 / 985 / 989 / 992-994	D			8 Cyl	14618cc	320-362kW	(435-492ps)
OM 443A.901 / 940 / 980	D			10 Cyl	18273cc	kW	(ps)
OM 443LA.901 / 980	D			10 Cyl	18273cc	412kW	(560ps)
OM 444A.901 / 444LA.901	D			12 Cyl	21920cc	kW	(ps)
OM 462.900-410(AFS)	D			8 Cyl	14618cc	260kW	(354ps)
OM 462.900-510 / -511(AFS)	D			8 Cyl	14618cc	320-329kW	(435-447ps)

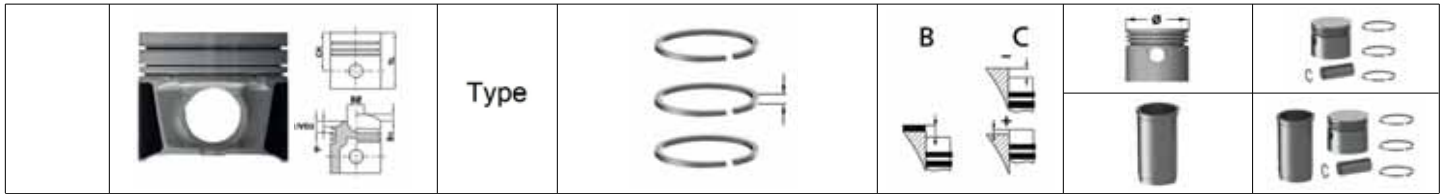
<p>11-02711-000 CH 81,350 B- 27,500 BØ 66,600 TL 126,350</p> <p>46,00x105,00</p>	<p>AP</p> <p>HA</p> <p>PDB</p>	<p>91-09650-000</p> <p>1 3,000 Mo</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>	-0,10/+0,32	Ø 128,000	31-04711-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05618-000 52-05618-000	71-08711-000 72-08711-000
<p>K=144,45 L=253,00 H+F=10,42+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05619-000 52-05619-000	71-07096-000 72-07096-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05650-000 52-05650-000	71-07012-000 72-07012-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05652-000 52-05652-000	71-08712-000 72-08712-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05733-000 52-05733-000	71-08770-000 72-08770-000



128,000

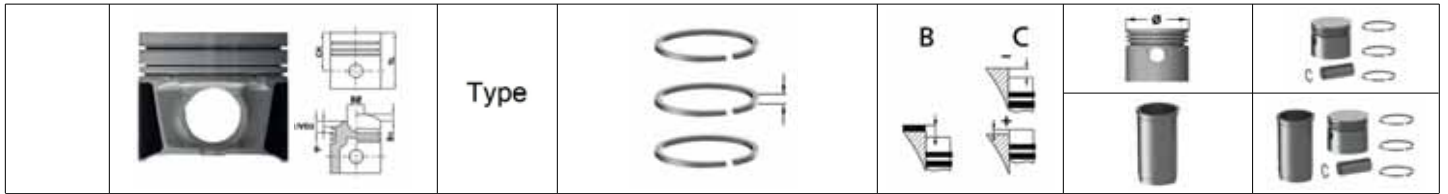
OM 440.940-942 / 945 Euro1	D	1991	1994	8 Cyl	14618cc	250kW	(340ps)
OM 440.978-986 / 991 Euro1	D	1990		8 Cyl	14618cc	320-370kW	(435-503ps)
OM 441.990 Euro1	D	1992	1995	6 Cyl	10965cc	250kW	(340ps)

 11-02713-000 CH 81,450 B- 24,500 BØ 66,600 TL 126,450  46,00x105,00	AP HA	91-09650-000 1 3,000  Mo 2 3,000  CR 3 4,000  CR		Ø 128,000	31-04713-000
 K=144,45 L=253,00 H+F=9,92+1,00 D=153,70	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05618-000 52-05618-000	71-08713-000 72-08713-000
 K=144,45 L=253,00 H+F=10,42+1,00 D=153,70	WF		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05619-000 52-05619-000	71-08716-000 72-08716-000
 K=144,45 L=253,00 H+F=10,06+1,00 D=153,70	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05650-000 52-05650-000	71-07126-000 72-07126-000
 K=144,45 L=253,00 H+F=10,06+1,00 D=153,70	WF-CR		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05652-000 52-05652-000	71-08714-000 72-08714-000
 K=144,45 L=253,00 H+F=10,06+1,00 D=153,70	WF		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05733-000 52-05733-000	71-08774-000 72-08774-000






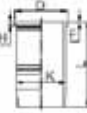
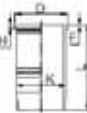



128,000							
OM 441.901 / 960-962 / 981-983 / 985	D	6 Cyl	10965cc	250kW	(340ps)		
OM 442.941-946 / 950-953 / 957 / 959-960 / 962-966 / 968 / 971 / 972 / 974-976 980 / 982 / 983 / 989 / 991-994	D	8 Cyl	14618cc	269-362kW	(354-492ps)		
OM 443.901 / 901-500 / 940 / 980	D	10 Cyl	18273cc	340-412kW	(462-560ps)		
OM 444.901 (OM 444LA)	D	12 Cyl	21920cc	kW	(ps)		








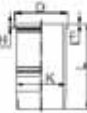
<p>11-02721-000 CH 81,350 B- 27,500 BØ 66,200 TL 126,350</p> <p>46,00x105,00</p>	<p>AP</p> <p>HA</p>	<p>91-09650-000</p> <p>1 3,000 Mo</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>		<p>Ø 128,000</p>	<p>31-04721-000</p>
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50509-000</p> <p>1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05618-000 52-05618-000</p>	<p>71-08721-000 72-08721-000</p>
<p>K=144,45 L=253,00 H+F=10,42+1,00 D=153,70</p>	WF		<p>O-Ring/Seal</p> <p>55-50509-000</p> <p>1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05619-000 52-05619-000</p>	<p>71-08724-000 72-08724-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50507-000</p> <p>2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05650-000 52-05650-000</p>	<p>71-08702-000 72-08702-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		<p>O-Ring/Seal</p> <p>55-50507-000</p> <p>2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05652-000 52-05652-000</p>	<p>71-08720-000 72-08720-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF		<p>O-Ring/Seal</p> <p>55-50507-000</p> <p>2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05733-000 52-05733-000</p>	<p>71-08772-000 72-08772-000</p>

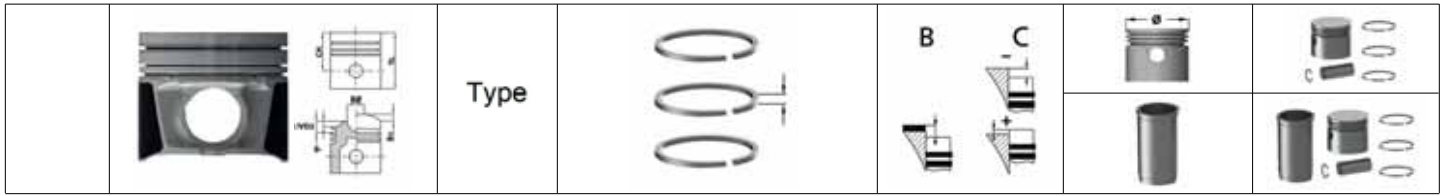


128,000							
OM 447.913 Euro1				D	1993	6 Cyl	11970cc 150-157kW (204-214ps)
OM 447.914 Euro1				D	1993	6 Cyl	11970cc 150-157kW (204-214ps)

 <p>11-02727-000 CH 90,000 B- 25,500 BØ 62,500 TL 140,000</p>  46,00x99,00	AP	<p>91-09650-000</p> <p>1 3,000  Mo</p> <p>2 3,000  CR</p> <p>3 4,000  CR</p>			Ø 128,000	31-04727-000
	HA					
 <p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH			O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05651-000 52-05651-000	71-08731-000 72-08731-000
 <p>K=144,50 L=270,00 H+F=9,92+1,00 D=153,80</p>	WF-PH			O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05657-000 52-05657-000	71-08727-000 72-08727-000
 <p>K=144,50 L=270,00 H+F=9,92+1,00 D=153,80</p>	WF			O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05737-000 52-05737-000	71-07639-000 72-07639-000

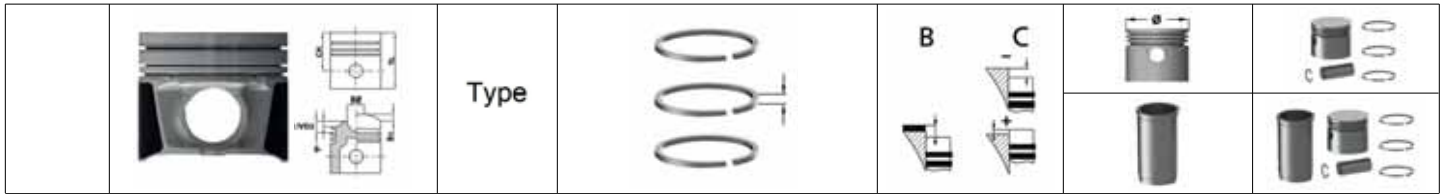
128,000							
OM 447.903-600 / 903-604 / 954-959 / 995				D	1991	6 Cyl	11970cc 184kW (250ps)
OM 447.960(TUR) Euro1				D	1997	6 Cyl	11970cc 184kW (250ps)
OM 447HLA.903-704 / 903-705 / 947TUR / 960TUR / 980-987				D	1991	6 Cyl	11970cc 184-220kW (250-300ps)

 <p>11-02728-000 CH 90,000 B- 24,000 BØ 75,000 TL 140,000</p>  46,00x105,00	AP	<p>91-09650-000</p> <p>1 3,000  Mo</p> <p>2 3,000  CR</p> <p>3 4,000  CR</p>			Ø 128,000	31-04728-000
	HA					
 <p>K=144,45 L=270,00 H+F=10,07+1,00 D=153,80</p>	WF-PH			O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05651-000 52-05651-000	71-08733-000 72-08733-000
 <p>K=144,50 L=270,00 H+F=9,92+1,00 D=153,80</p>	WF-PH			O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05657-000 52-05657-000	71-08728-000 72-08728-000
 <p>K=144,50 L=270,00 H+F=9,92+1,00 D=153,80</p>	WF			O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05737-000 52-05737-000	71-07640-000 72-07640-000




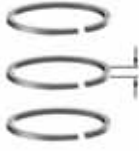
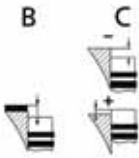





128,000						
OM 440.940-942 / 945 Euro1	D	8 Cyl	14618cc	250kW	(340ps)	
OM 440.978-986 / 991 Euro1	D	8 Cyl	14618cc	320kW	(435ps)	
OM 441.990 Euro1	D	6 Cyl	10965cc	250kW	(340ps)	

<p>11-02731-000 CH 81,450 B- 24,500 BØ 66,600 TL 126,450</p> <p> 46,00x105,00</p>	AP	<p>91-09650-000</p> <p>1 3,000 Mo</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>			Ø 128,000	31-04731-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH			O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05618-000 52-05618-000	71-08739-000 72-08739-000
<p>K=144,45 L=253,00 H+F=10,42+1,00 D=153,70</p>	WF			O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05619-000 52-05619-000	71-07141-000 72-07141-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH			O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05650-000 52-05650-000	71-08740-000 72-08740-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR			O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05652-000 52-05652-000	71-08743-000 72-08743-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF			O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05733-000 52-05733-000	71-08776-000 72-08776-000



128,000						
OM 441.901-400	D	6 Cyl	10965cc	kW	(ps)	
OM 441.901-500 / 901-505 / 901-507 / 901-520 / 901-530	D 1995	6 Cyl	10965cc	250kW	(340ps)	
OM 442.901-507 / 901-508 / 901-520 Euro2	D	8 Cyl	14618cc	kW	(ps)	
OM 445.920-927 / 929-931 / 933-941 Euro2	D 1994	6 Cyl	10965cc	180-250kW	(245-340ps)	
OM 446.920 / 922-936 / 938-943 / 945-946 / 948 Euro2	D 1994	8 Cyl	14618cc	280-390kW	(381-530ps)	






<p>11-02733-000 CH 81,450 B- 24,000 BØ 72,500 TL 126,450</p> <p> 46,00x105,00</p>	AP YS	<p>91-09650-000</p> <p>1 3,000 Mo 2 3,000 CR 3 4,000 CR</p>	-0,07/+0,43	Ø 128,000	31-04733-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05618-000 52-05618-000	71-08734-000 72-08734-000
<p>K=144,45 L=253,00 H+F=10,42+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05619-000 52-05619-000	71-08736-000 72-08736-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05650-000 52-05650-000	71-08735-000 72-08735-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05652-000 52-05652-000	71-08738-000 72-08738-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF		O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80	51-05733-000 52-05733-000	71-08775-000 72-08775-000

	Type		B  C 		
					

128,000

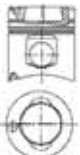




2711 in burçsuz ve hücresi düz olani / piston version 2711 without pin boss
bushing and plane cylindrical combustion chamber

Cyl cc

	11-02736-000 CH 81,350 B- 26,000 BØ 66,600 TL 126,350	AP HA	91-09650-000 1 3,000  Mo 2 3,000  CR 3 4,000  CR		Ø 128,000	31-04736-000
	46,00x105,00					

128,000






OM 447LA BRAZIL	D	1995			
OM 449A BRAZIL	D				
OM 475.950-954BRAZIL	D				
OM 475.982 / 992BRAZIL	D				
OM 476.980-981 / 983BRAZIL	D				

	11-02744-000 CH 89,950 B- 26,500 BØ 62,500 TL 140,000	AP HA	91-09650-000 1 3,000  Mo 2 3,000  CR 3 4,000  CR		Ø 128,000	31-04744-000
	46,00x105,00					


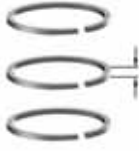
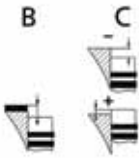

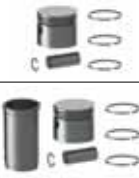
	K=144,50 L=270,00 H+F=9,92+1,00 D=153,80	WF-PH		O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90	51-05657-000 52-05657-000	71-08754-000 72-08754-000
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128,000

OM 449LA BRA	D	1995	6 Cyl	11970cc	264kW	(360ps)
OM 475.985-986 / 989 / 991 / 994 / 997-998(AFS / LAM) Euro1	D		5 Cyl	9973cc	184-224kW	(250-305ps)
OM 476.977(BRA) Euro2	D	1995	6 Cyl	11970cc	264kW	(360ps)
OM 476.979LA BRAZIL Euro2	D		6 Cyl	11970cc	264kW	(360ps)
OM 476.985(BRA) Euro1	D	1995	6 Cyl	11970cc	261kW	(355ps)
OM 489.960-961(TUR) Euro1	D	1995	5 Cyl	9973cc	155kW	(211ps)






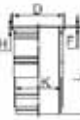
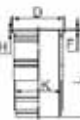
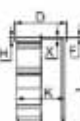
	11-02745-000 CH 89,950 B- 24,000 BØ 77,000 TL 140,000	AP HA	91-09650-000 1 3,000  Mo 2 3,000  CR 3 4,000  CR		Ø 128,000	31-04745-000
	46,00x105,00					

	K=144,45 L=270,00 H+F=10,07+1,00 D=153,80	WF-PH		O-Ring/Seal 55-50508-000 2 FPM 138,00x2,10 2 FPM 144,00x4,00	51-05651-000 52-05651-000	71-08751-000 72-08751-000
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	Type				
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128,000

OM 457 Euro2-3 / OM 457 LA Euro2-3 / OM 458 Euro2-3 D 1995 6 Cyl 11970cc 250kW (340ps)

	11-02747-000 CH 90,050 B- 15,850 BØ 93,000 TL 140,050	AP YS	91-09719-000 1 3,000  CkP St 2 3,000  CrP 3 4,000  CkP		Ø 128,000	31-04747-000
	 52,00x103,00	Old version 2719 000				
	K=144,50 L=266,00 H+F=10,12+1,10 D=155,50	WF-CR		O-Ring/Seal 55-50503-000 1 SM 146,00x155,00x0,15 2 FPM 144,00x154,00x7,00	51-05615-000 52-05615-000	71-08766-000 72-08766-000
	K=144,50 L=266,00 H+F=10,12+1,10 D=155,50	WF		O-Ring/Seal 55-50503-000 1 SM 146,00x155,00x0,15 2 FPM 144,00x154,00x7,00	51-05628-000 52-05628-000	71-08756-000 72-08756-000
	K=144,50 L=266,00 H+F=10,12+1,10 D=155,50 X=6,50 (RING)	WF		O-Ring/Seal 55-50504-000 1 SM 146,00x155,00x0,15 2 VI 144,50x154,00x7,00 1 VI 132,50 x137,00x3,90	51-05743-000 52-05743-000	71-08764-000 72-08764-000






128,000

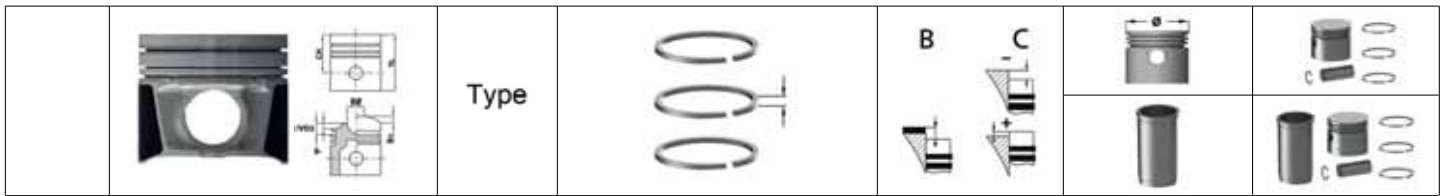
Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston D 1995 6 Cyl 11970cc 250kW (340ps)

	11-02747-001 CH 89,750 B- 15,850 BØ 93,000 TL 140,050	AP YS	91-09719-000 1 3,000  CkP St 2 3,000  CrP 3 4,000  CkP		Ø 128,000	31-04747-001
	 52,00x103,00	CH -0.30 mm				

128,000

OM 457 Euro2/3 D 1997 6 Cyl 11970cc 185-315kW (252-428ps)

	11-02748-000 CH 90,050 B- 18,000 BØ 89,500 TL 140,050	AP YS	91-09719-000 1 3,000  CkP St 2 3,000  CrP 3 4,000  CkP		Ø 128,000	31-04748-000
	 52,00x103,00					

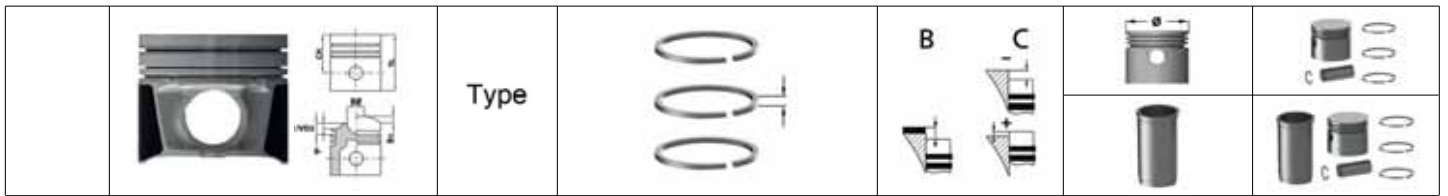


128,000						
OM 457.936 Euro2		D		6 Cyl	11970cc	300kW (408ps)
OM 457.939 Euro2		D 1998		6 Cyl	11970cc	260kW (354ps)
OM 457.942 Euro2		D 1997		6 Cyl	11970cc	185-260kW (252-354ps)
OM 457.944 Euro2		D 1999		6 Cyl	11970cc	260-310kW (354-421ps)
OM 457LA Euro2		D		6 Cyl	11970cc	250kW (340ps)

<p>11-02751-000 CH 90,050 B- 18,000 BØ 89,500 TL 140,050</p> <p>52,00x103,00</p>	<p>AP YS</p> <p>91-09719-000 1 3,000 CkP St 2 3,000 CrP 3 4,000 CkP</p>			<p>Ø 128,000</p> <p>31-04751-000</p>
<p>K=144,50 L=266,00 H+F=10,12+1,10 D=155,50</p>	WF-CR		<p>O-Ring/Seal 55-50503-000 1 SM 146,00x155,00x0,15 2 FPM 144,00x154,00x7,00</p>	<p>51-05615-000 52-05615-000</p> <p>71-08755-000 72-08755-000</p>
<p>K=144,50 L=266,00 H+F=10,12+1,10 D=155,50</p>	WF		<p>O-Ring/Seal 55-50503-000 1 SM 146,00x155,00x0,15 2 FPM 144,00x154,00x7,00</p>	<p>51-05628-000 52-05628-000</p> <p>71-08765-000 72-08765-000</p>

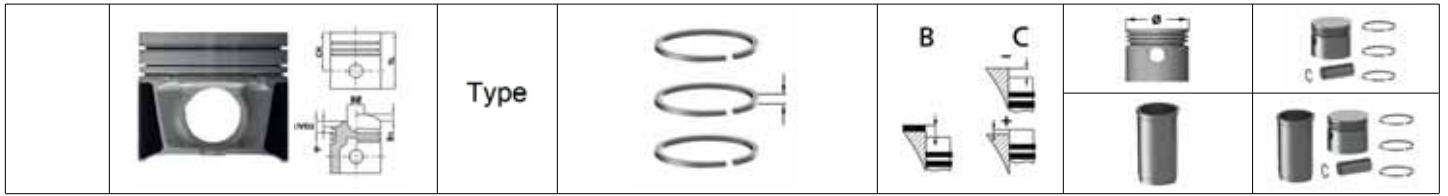
128,000						
OM 441LA Euro1980 / 986 / 989 / 993		D 1991	1996	6 Cyl	10960cc	249kW (340ps)
OM 442A900 / 941 / 946 / 950 / 952 / 954 / 968		D 1991		8 Cyl	14618cc	269kW (366ps)
OM 443A901		D		10 Cyl	18270cc	kW (ps)

<p>11-02757-000 CH 81,300 B- 24,350 BØ 66,600 TL 126,350</p> <p>46,00x105,00</p>	<p>AP HA</p> <p>91-09650-000 1 3,000 Mo 2 3,000 CR 3 4,000 CR</p>		-0,03/+0,33	<p>Ø 128,000</p> <p>31-04757-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		<p>O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05652-000 52-05652-000</p> <p>71-08762-000 72-08762-000</p>



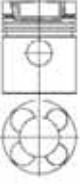










128,000
 OM 442LA.901 / 953 / 955 / 959 D 1980 8 Cyl 14618cc 184-390kW (250-530ps)

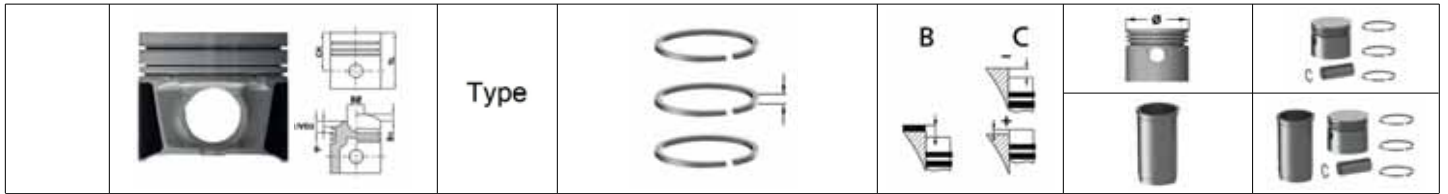
	<p>11-02764-000 CH 81,350 B- 26,040 BØ 65,440 TL 126,350</p> <p> 46,00x105,00</p>	<p>AP HA PDB</p>	<p>91-09650-000 1 3,000 Mo 2 3,000 CR 3 4,000 CR</p>		<p>Ø 128,000</p>	<p>31-04764-000</p>
	<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	<p>WF-PH</p>		<p>O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05618-000 52-05618-000</p>	<p>71-08825-000 72-08825-000</p>
	<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	<p>WF-PH</p>		<p>O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05650-000 52-05650-000</p>	<p>71-08831-000 72-08831-000</p>
	<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	<p>WF</p>		<p>O-Ring/Seal 55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05733-000 52-05733-000</p>	<p>71-08779-000 72-08779-000</p>












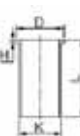
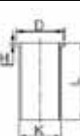
128,000

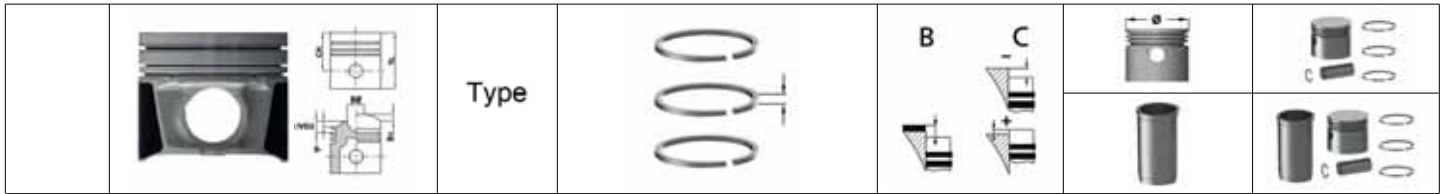
OM 335.910 / 930 / 932	D	1969	6 Cyl	11581cc	154-176kW	(210-240ps)
OM 345.910 / 912 / 914(001-005) / 932-933 / 936-937	D	1974	6 Cyl	11581cc	103-177kW	(140-240ps)
OM 345.915 / 919 / 919(001-002) / 941-942 / 945-947 / 949 / 972-973 / 975	D	1976	6 Cyl	11581cc	114-150kW	(155-204ps)
OM 347.915 / 942-943	D	1985	5 Cyl	9651cc	141-147kW	(192-200ps)
OM 355.910-916 / 918 / 960-964 / 966-967 / 970 / 972-975 / 975(005-006) / 976 / 976(001-004) / 978-984	D	1967	6 Cyl	11581cc	136-191kW	(185-260ps)
OM 355II.Serie	D	1969	5 Cyl	9651cc	kW	(ps)

 11-02901-000 CH 90,260 VD1 1,100 B- 27,000 BØ 70,000 TL 161,260  48,00x108,00	AP	91-09911-000 1 3,500  MoP 2 3,500  P 3 3,500  P 4 6,500  CrP	+0,09/+0,30	Ø 128,000 Ø 128,500 Ø 129,000 Ø 129,500	31-04901-000 31-04901-050 31-04901-100 31-04901-150
 K=133,49 L=287,50 H=5,55 D=137,45	DF			51-35631-000	71-08901-000
 K=133,55 L=287,50 H=5,55 D=137,42	DS			51-65648-000	
 K=134,05 L=287,50 H=6,00 D=137,92	DS +0,50			51-65648-050	
 K=134,50 L=287,50 H=6,00 D=138,42	DS +1,00			51-65648-100	
 K=135,05 L=287,50 H=6,00 D=138,92	DS +1,50			51-65648-150	



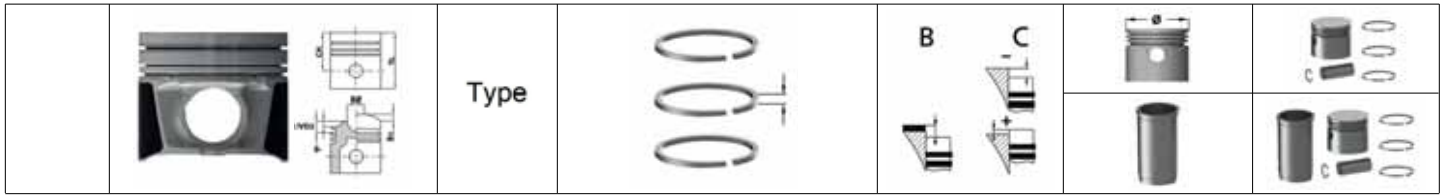
128,000						
OM 345.913-960	D	1975	6 Cyl	11581cc	210kW	(285ps)
OM 345.913-960(BRA)	D	1975	6 Cyl	11581cc	210kW	(285ps)
OM 355.968-969 / 977	D	1974	6 Cyl	11581cc	191-207kW	(260-280ps)

 11-02911-000 CH 90,260 VD1 2,000 B- 28,500 BØ 70,000 TL 161,260  48,00x108,00	AP	91-09911-000 1 3,500  MoP 2 3,500  P 3 3,500  P 4 6,500  CrP	-0,10/+0,22	Ø 128,000 Ø 128,500 Ø 129,000 Ø 129,500	31-04911-000 31-04911-050 31-04911-100 31-04911-150
 K=133,49 L=287,50 H=5,55 D=137,45	DF			51-35631-000	71-08911-000
 K=133,55 L=287,50 H=5,55 D=137,42	DS			51-65648-000	
 K=134,05 L=287,50 H=6,00 D=137,92	DS +0,50			51-65648-050	
 K=134,50 L=287,50 H=6,00 D=138,42	DS +1,00			51-65648-100	
 K=135,05 L=287,50 H=6,00 D=138,92	DS +1,50			51-65648-150	



128,000	
OM 421.901 / -400 / -410 / 951	D 1984 6 Cyl 10965cc 184kW (250ps)
OM 421.901 / -500-510	D 1984 6 Cyl 10965cc kW (ps)
OM 422.901-400-410 / 951-952 / 954 / 956-958 / 963	D 1979 1991 8 Cyl 14618cc 206-243kW (280-330ps)
OM 422.901-500 / 953 / 955 / 959	D 1980 8 Cyl 14618cc 276kW (375ps)
OM 423.901 / -400 / -500	D 1984 10 Cyl 18273cc 346kW (470ps)
OM 423.901-510 / 950	D 1984 1994 10 Cyl 18273cc 346-368kW (470-500ps)
OM 424.901 / -500 / -510	D 1980 12 Cyl 21930cc 441kW (600ps)
OM 424.901-400	D 1980 12 Cyl 21930cc kW (ps)
OM 492.900 / -405 / -406 / -409 / -411	D 1984 8 Cyl 14618cc 221-243kW (300-330ps)
OM 492.900-501	D 1984 8 Cyl 14618cc 276kW (375ps)
OM 493.900-501	D 1984 10 Cyl 18273cc 368kW (500ps)

<p>11-02919-000 CH 81,350 B- 25,400 BØ 70,000 TL 126,350</p> <p> 46,00x105,00</p>	AP	<p>91-09650-000</p> <p>1 3,000 Mo 2 3,000 CR 3 4,000 CR</p>	-0,07/+0,43	Ø 128,000	31-04919-000
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05618-000 52-05618-000</p>	<p>71-07029-000 72-07029-000</p>
<p>K=144,45 L=253,00 H+F=10,42+1,00 D=153,70</p>	WF		<p>O-Ring/Seal</p> <p>55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05619-000 52-05619-000</p>	<p>71-07043-000 72-07043-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05650-000 52-05650-000</p>	<p>71-08919-000 72-08919-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		<p>O-Ring/Seal</p> <p>55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05652-000 52-05652-000</p>	<p>71-07147-000 72-07147-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF		<p>O-Ring/Seal</p> <p>55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05733-000 52-05733-000</p>	<p>71-08780-000 72-08780-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		<p>O-Ring/Seal</p> <p>55-50507-000 2 FPM 140,00x1,90 2 FPM 144,00x3,80</p>	<p>51-05652-000 52-05652-000</p>	<p>71-07631-000 72-07631-000</p>



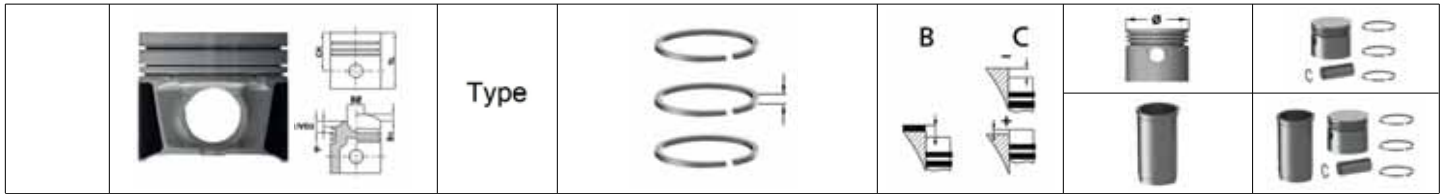
130,000							
OM 501 LA EURO3	D	2003	6 Cyl	11950cc	230-350kW	(313-476ps)	
OM 502 LA EURO3	D	2003	8 Cyl	15928cc	350-440kW	(476-598ps)	
OM 521.940 Euro 2 / Euro 3	D		6 Cyl	11946cc	315kW	(428ps)	
OM 521.950 / 951 Euro 2	D		6 Cyl	11946cc	260-335kW	(354-456ps)	
OM 522.940-943 / 950 Euro2	D		8 Cyl	15928cc	420kW	(570ps)	
OM 541 Euro 2/3 .940 - 948 / 950 - 952	D	1996	6 Cyl	11946cc	230-355kW	(313-483ps)	
OM 541.920 - 928 / 949 Euro 2	D	1996	6 Cyl	11946cc	230kW	(331ps)	
OM 542 Euro 2 .920 - 926 / 956 - 957	D	1996	8 Cyl	15928cc	350kW	(476ps)	
OM 542 Euro 2/3 .940 - 945 / 947 - 948	D	1995	8 Cyl	15928cc	320-425kW	(435-587ps)	
OM 941 Euro 2/3 .900 / 910 / 920 - 921 / 929 - 930 / 940 / 960 / 970 / 980 - 981 / 990	D	1996	6 Cyl	11946cc	230-315kW	(313-428ps)	
OM 942 Euro 2/3 .900 / 910 - 912 / 925 / 930 / 960 / 967 / 970 / 980 / 990	D	1996	8 Cyl	15928cc	300-448kW	(408-609ps)	

<p>11-02677-000 CH 78,550 B- 16,200 BØ 92,800 TL 119,500</p> <p>52,00x103,00</p>	AP	<p>91-09710-000</p> <p>1 3,000 CR</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>	+0,27/+0,61	Ø 130,000	31-04677-000
	YS				
Ihc/Case ve Mercedes-Benz ile Ortak Motor					

<p>K=150,00 L=258,00 H+F=10,10+1,00 D=164,00</p>	WF	<p>O-Ring/Seal</p> <p>55-50510-000</p> <p>1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00</p>	<p>51-05684-000</p> <p>52-05684-000</p>	<p>71-07026-000</p> <p>72-07026-000</p>

130,000							
OM 541 Euro 4/5 (BlueTec).953 / 959 / 970 - 981 / 990 - 992 / 994 / 996 - 999	D	2005	6 Cyl	11946cc	235-350kW	(320-476ps)	
OM 542 Euro 4/5 (BluTec) .960 - 966 / 970 - 973	D	2005	8 Cyl	15928cc	350-448kW	(476-609ps)	
OM 942.993	D		8 Cyl	15928cc	376-480kW	(510-653ps)	

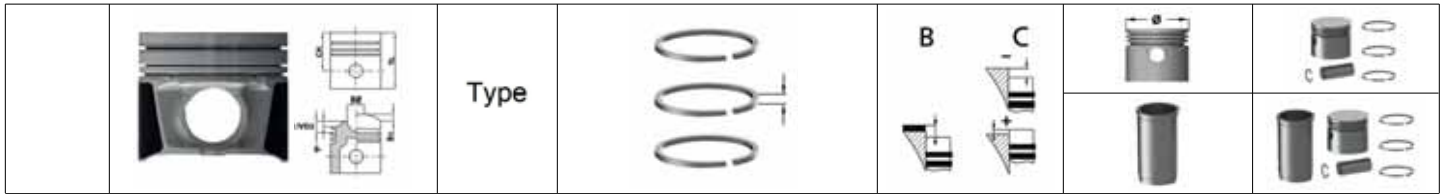
<p>11-02680-000 CH 78,550 B- 17,600 BØ 87,000 TL 119,550</p> <p>52,00x103,00</p>	AP	<p>91-09711-000</p> <p>1 3,000 CdC</p> <p>2 3,000 CR</p> <p>3 4,000 CdC</p>	+0,27/+0,61	Ø 130,000	31-04680-000
	YS				
<p>K=150,00 L=258,00 H+F=10,12+1,15 D=164,20 X=13,50 (RING)</p>	WF	<p>O-Ring/Seal</p> <p>55-50510-000</p> <p>1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00</p>	<p>51-05744-000</p> <p>52-05744-000</p>	<p>71-07027-000</p> <p>72-07027-000</p>	



130,000

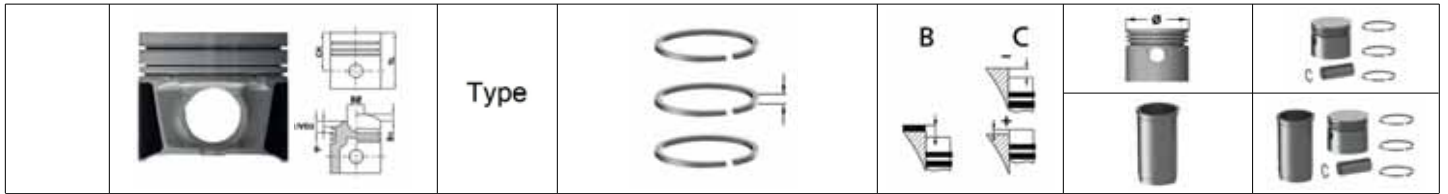
OM 440.909-911	D	8 Cyl	15080cc	195kW	(265ps)
OM 441.905-909 / 911-921 / 923-922	D	6 Cyl	11309cc	150-165kW	(204-224ps)
OM 442.905	D	8 Cyl	15080cc	191kW	(260ps)
OM 442.906-911 / 915-919 / 923-930	D	8 Cyl	15080cc	206-218kW	(280-296ps)
OM 442.914 / 920-922 / 932-935	D	8 Cyl	15080cc	195kW	(265ps)
OM 443.905	D	10 Cyl	18848cc	271kW	(369ps)
OM 462.900-010 / -011 / -012 / -013	D	8 Cyl	15080cc	195-203kW	(265-276ps)
OM 463.900-010	D 1986	10 Cyl	18848cc	260-271kW	(354-368ps)

<p>11-02708-000 CH 81,350 B- 27,200 BØ 60,800 TL 126,350</p> <p>46,00x99,00</p>	AP	<p>91-09708-000</p> <p>1 3,000 CR 2 3,000 CR 3 4,000 CR</p>		Ø 130,000	31-04708-000
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-PH		<p>O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05653-000 52-05653-000</p>	<p>71-08708-000 72-08708-000</p>
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	WF-PH		<p>O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05658-000 52-05658-000</p>	<p>71-07018-000 72-07018-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	WF-CR		<p>O-Ring/Seal 55-50509-000 1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05681-000 52-05681-000</p>	<p>71-08703-000 72-08703-000</p>



130,000						
OM 522LA Euro2	D	8 Cyl	15928cc	362-420kW	(496-570ps)	
OM 541LA Euro2	D	6 Cyl	11946cc	230-355kW	(313-455ps)	
OM 542LA Euro2	D	8 Cyl	15928cc	320-420kW	(435-571ps)	
OM 941LA Euro2	D	6 Cyl	11946cc	230-315kW	(313-428ps)	
OM 942LA Euro2	D	8 Cyl	15928cc	300-448kW	(408-609ps)	

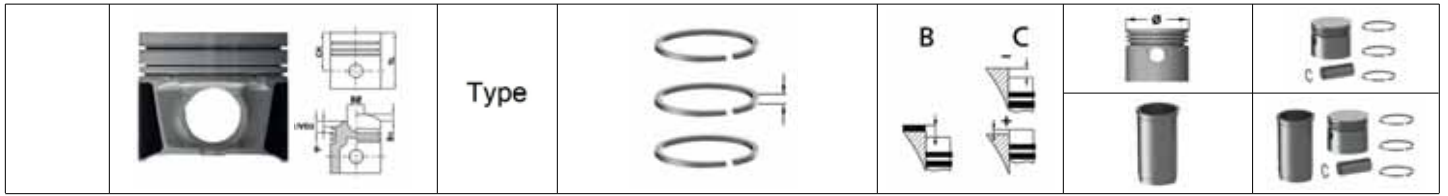
<p>11-02710-000 CH 78,650 B- 18,200 BØ 88,500 TL 119,550</p> <p>52,00x103,00</p>	AP YS	<p>91-09710-000</p> 1 3,000 CR 2 3,000 CR 3 4,000 CR	+0,27/+0,61	Ø 130,000	31-04710-000
<p>K=150,00 L=258,00 H+F=10,10+1,00 D=164,00</p>	WF-PH		O-Ring/Seal 55-50510-000 1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00	51-05674-000 52-05674-000	71-08710-000 72-08710-000
<p>K=150,00 L=258,00 H+F=10,10+1,00 D=164,00</p>	WF		O-Ring/Seal 55-50510-000 1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00	51-05684-000 52-05684-000	71-08747-000 72-08747-000



130,000

OM 440.909-911	D	8 Cyl	15080cc	195kW	(265ps)
OM 441.905-909 / 911-921 / 923-922	D	6 Cyl	11309cc	150-165kW	(204-224ps)
OM 442.905	D	8 Cyl	15080cc	191kW	(260ps)
OM 442.906-911 / 915-919 / 923-930	D	8 Cyl	15080cc	206-218kW	(280-296ps)
OM 442.914 / 920-922 / 932-935	D	8 Cyl	15080cc	195kW	(265ps)
OM 443.905	D	10 Cyl	18848cc	271kW	(369ps)
OM 462.900-010 / -011 / -012 / -013	D	8 Cyl	15080cc	195-203kW	(265-276ps)
OM 463.900-010	D 1986	10 Cyl	18848cc	260-271kW	(354-368ps)

<p>11-02729-000 CH 81,350 B- 27,200 BØ 60,800 TL 126,350</p> <p>46,00x99,00</p>	<p>AP</p> <p>HA</p>	<p>91-09708-000</p> <p>1 3,000 CR</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>	<p>+0,07/+0,43</p>	<p>Ø 130,000</p>	<p>31-04729-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	<p>WF-PH</p>		<p>O-Ring/Seal</p> <p>55-50509-000</p> <p>1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05653-000 52-05653-000</p>	<p>71-08729-000 72-08729-000</p>
<p>K=144,45 L=253,00 H+F=9,92+1,00 D=153,70</p>	<p>WF-PH</p>		<p>O-Ring/Seal</p> <p>55-50509-000</p> <p>1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05658-000 52-05658-000</p>	<p>71-08730-000 72-08730-000</p>
<p>K=144,45 L=253,00 H+F=10,06+1,00 D=153,70</p>	<p>WF-CR</p>		<p>O-Ring/Seal</p> <p>55-50509-000</p> <p>1 T 147,40x153,50x0,15 2 FPM 144,00x3,80 1 FPM 140,00x1,90</p>	<p>51-05681-000 52-05681-000</p>	<p>71-08701-000 72-08701-000</p>



130,000							
OM 501LA		D		6 Cyl	11950cc	230-350kW	(313-476ps)
OM 502LA		D		8 Cyl	15930cc	350-440kW	(476-598ps)
OM 521.940 / 950 Euro2		D 1996		6 Cyl	11946cc	260-335kW	(354-456ps)
OM 522.940-943 / 950 Euro2		D 1996		8 Cyl	15928cc	362-530kW	(496-721ps)
OM 541.920-928 / 949-952 / 960 / 970 / 972 / 974 / 976 / 978 / 980 Euro2		D		6 Cyl	11946cc	230-355kW	(313-455ps)
OM 541.940-948 Euro2 / 3		D		6 Cyl	11946cc	230-355kW	(313-483ps)
OM 542.920-926 / 956-957 Euro2		D		8 Cyl	15928cc	350-448kW	(476-609ps)
OM 542.940 Euro2 / 3		D		8 Cyl	15928cc	320-425kW	(435-587ps)
OM 941.910 / 920-921 / 925 / 929-930 / 940 / 960 / 970 / 980-981 / 990 Euro2 / 3		D		6 Cyl	11946cc	230-315kW	(313-428ps)
OM 942.900 / 910-912 / 925 / 930 / 960 / 967 / 970 / 980 / 990 Euro2 / 3		D 1996		8 Cyl	15928cc	300-448kW	(408-609ps)

<p>11-02732-000 CH 78,550 B- 16,250 BØ 92,900 TL 123,550</p> <p>52,00x103,00</p>	AP	<p>91-09710-000</p> <p>1 3,000 CR</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>	+0,27/+0,61	Ø 130,000	31-04732-000
	YS				
Ihc/Case ve Merdedes-Benz ile Ortak Motor					


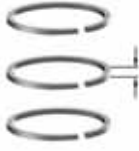
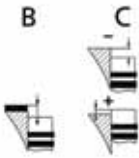

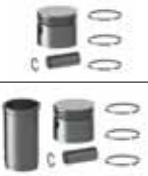
<p>K=150,00 L=258,00 H+F=10,10+1,00 D=164,00</p>	WF-PH		O-Ring/Seal 55-50510-000 1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00	51-05674-000 52-05674-000	71-08746-000 72-08746-000
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<p>K=150,00 L=258,00 H+F=10,10+1,00 D=164,00</p>	WF		O-Ring/Seal 55-50510-000 1 SM 153,30x163,50x0,15 2 FPM 149,00x158,60x7,00	51-05684-000 52-05684-000	71-08732-000 72-08732-000
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130,000

Strok Boyu 0,30mm Kisa Piston / Stroke Length 0,30mm Shorter Piston






				Cyl	cc	kW	(ps)
<p>11-02732-002 CH 78,250 B- 16,250 BØ 92,900 TL 123,250</p> <p>52,00x103,00</p>	AP	<p>91-09710-000</p> <p>1 3,000 CR</p> <p>2 3,000 CR</p> <p>3 4,000 CR</p>			Ø 130,000	31-04732-002	
	YS						
Ihc/Case ve Merdedes-Benz ile Ortak Motor							

	Type				
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85,000

D987LKS

D






	11-01671-000 CH 60,000 B- 16,200 BØ 48,000 TL 92,000	CP	91-09671-000 1 3,000  CrP 2 3,000  P 3 5,000  CrP		Ø 85,000 Ø 85,500 Ø 86,000	31-03671-000 31-03671-050 31-03671-100
	26,00x68,00					

85,000

D987LKS-R

D

4 Cyl 3370cc

	11-01672-000 CH 60,000 B- 16,200 BØ 43,500 TL 92,000	CP	91-09672-000 1 3,000  CrP 2 3,000  P 3 5,000  CrP		Ø 85,000 Ø 85,500 Ø 86,000	31-03672-000 31-03672-050 31-03672-100
	26,00x68,00					

95,000

D327

D

4 Cyl 3370cc

D327-3







D

3 Cyl 2827cc

D372-2

D

2 Cyl 1885cc

	11-01670-000 CH 59,800 B- 17,500 BØ 57,500 TL 112,800	CP	91-09670-000 1 3,000  CR 2 3,000  P 3 3,000  P 4 5,000  CR		Ø 95,000 Ø 95,500	31-03670-000 31-03670-050
	32,00x82,00					







	K=105,91 L=211,00 H=8,07 D=114,00	WF		O-Ring/Seal 55-50901-000 2 NBR 105,00x4,00	51-05670-000 52-05670-000	71-07670-000 72-07670-000
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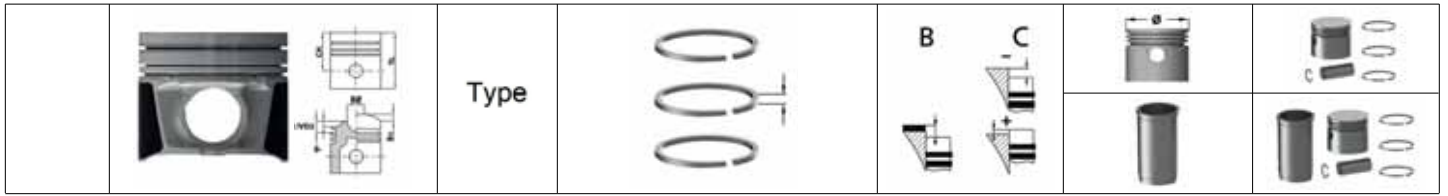
95,000

D225

D

1 Cyl 1700cc 25kW (33ps)

	11-01681-000 CH 59,800 B- 17,500 BØ 57,500 TL 112,800	CP	91-09670-000 1 3,000  CR 2 3,000  P 3 3,000  P 4 5,000  CR		Ø 95,000 Ø 95,500	31-03681-000 31-03681-050
	32,00x82,00					



100,000

D27-4.2	D	4 Cyl	3370cc	kW	(ps)
D327-2.2	D	2 Cyl	1885cc	kW	(ps)
D327-3.2	D	3 Cyl	2827cc	kW	(ps)
D327-6.2	D 1977	6 Cyl	5655cc	kW	(ps)

<p>11-01674-000 CH 60,400 B- 19,200 BØ 56,000 TL 102,400</p> <p>35,00x82,00</p>		<p>91-09673-000</p> <p>1 3,000 CrP</p> <p>2 2,000 P</p> <p>3 2,000 P</p> <p>4 4,000 CR</p>		Ø 100,000	<p>31-03674-000 31-03674-050</p>
				Ø 100,500	

<p>K=112,92 L=212,00 H+F=8,05+0,45 D=119,06</p>	WF		<p>O-Ring/Seal 55-50902-000 2 NBR 112,00x4,00</p>	<p>51-05673-000 52-05673-000</p>	<p>71-07674-000 72-07674-000</p>

100,000

D327-2.2	D 1977	2 Cyl	1885cc		
D327-3.2	D 1977	3 Cyl	2827cc		
D327-4.2	D 1977	4 Cyl	3370cc		
D327-6.2	D 1977	6 Cyl	5655cc		

<p>11-01675-000 CH 60,400 B- 19,200 BØ 56,000 TL 113,400</p> <p>35,00x82,00</p>	CP	<p>91-09673-000</p> <p>1 3,000 CrP</p> <p>2 2,000 P</p> <p>3 2,000 P</p> <p>4 4,000 CR</p>		Ø 100,000	<p>31-03675-000 31-03675-050</p>
				Ø 100,500	


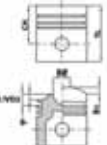
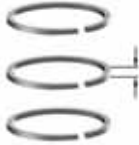






<p>K=112,92 L=212,00 H+F=8,05+0,45 D=119,06</p>	WF		<p>O-Ring/Seal 55-50902-000 2 NBR 112,00x4,00</p>	<p>51-05673-000 52-05673-000</p>	<p>71-08803-000 72-08803-000</p>

100,000

D225Agricola	D	3 Cyl	2800cc		
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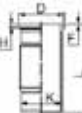
<p>11-02816-000 CH 59,800 B- 17,500 TL 112,800</p> <p>32,00x82,00</p>	CP	<p>91-09673-000</p> <p>1 3,000 CrP</p> <p>2 2,000 P</p> <p>3 2,000 P</p> <p>4 4,000 CR</p>		Ø 100,000	<p>31-04816-000</p>

<p>K=111,00 L=213,00 H+F=8,05+0,45 D=117,00</p>	WF-PH			<p>51-05695-000</p>	<p>71-08816-000</p>

		Type		 		
						






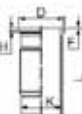
102,000

D229/3 D 1985 4 Cyl 2900cc

	11-02817-000 CH 60,400 B- 21,200 TL 102,400	AP	91-09599-000 1 3,000  CR 2 2,500  CrP 3 4,000  CrP		Ø 102,000	31-04817-000
	32,00x82,00					
	K=113,00 L=213,00 H+F=8,00+1,00 D=119,00	WF			51-05683-000	71-08817-000

102,000

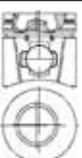




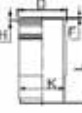
TD 229 D 1950 4 Cyl 3920cc


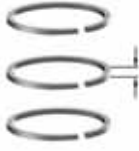






	11-02821-000 CH 60,400 B- 19,300 BØ 58,300 TL 102,400	AP	91-09599-000 1 3,000  CR 2 2,500  CrP 3 4,000  CrP		Ø 102,000	31-04821-000
	35,00x88,00					
	K=113,00 L=213,00 H+F=8,00+1,00 D=119,00	WF			51-05683-000	71-08821-000

103,000

4.10T D 4 Cyl 4300cc

4.10TCA D 4 Cyl 4300cc

	11-02818-000 CH 64,500 B- 24,500 BØ 51,000 TL 103,200	AP	91-09818-000 1 3,000  CrP 2 2,500  CrP 3 4,000  CR		Ø 103,000	31-04818-000
	38,00x87,00					
	K=113,95 L=213,00 H+F=8,05+1,00 D=123,50	WF-PH			51-05696-000	71-08818-000

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

103,000

6.10TCA240CV Euro2

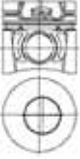




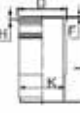
D

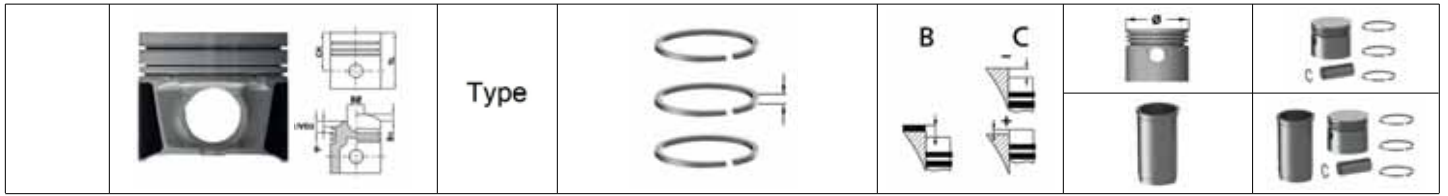
6 Cyl

6100cc

177kW







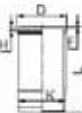


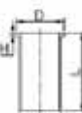
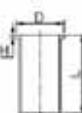
(241ps)

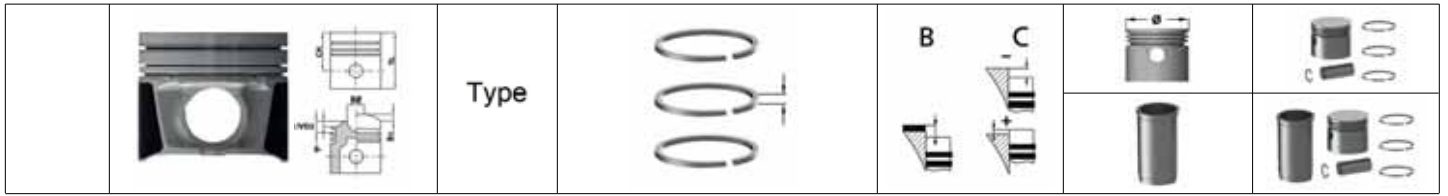
	<p>11-02819-000 CH 64,500 B- 24,000 BØ 50,000 TL 100,500</p>  <p>38,00x88,00</p>	<p>AP</p>	<p>91-09818-000 1 3,000  CrP 2 2,500  3 4,000  CR</p>		<p>Ø 103,000</p>	<p>31-04819-000</p>
	<p>K=113,95 L=213,00 H+F=8,05+1,00 D=123,50</p>	<p>WF-PH</p>			<p>51-05696-000</p>	<p>71-08819-000</p>



105,000






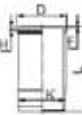
D226-2	D	1972	2 Cyl	2080cc	27-30kW	(37-40ps)
D226-3	D	1968	3 Cyl	3117cc	35-44kW	(48-60ps)
D226-4	D	1968	4 Cyl	4154cc	44-64kW	(60-87ps)
D226-6	D	1969	6 Cyl	6234cc	74-96kW	(101-131ps)

 <p>11-01676-000 CH 59,800 B- 19,800 BØ 62,000 TL 112,800</p>  <p>32,00x82,00</p>	CP	<p>91-09676-000</p> <p>1 3,000  CR 2 2,000  P 3 2,000  P 4 4,000  CR</p>	-0,28/-0,60	Ø 105,000	31-03676-000
Mwm ve Renault-Trucks (RVI) ile Ortak Motor					
 <p>K=115,00 L=213,00 H+F=8,07+1,00 D=123,00</p>	WF		O-Ring/Seal 55-50917-000 2 FPM 112,00x1,50 2 FPM 115,00x4,00	51-05678-000 52-05678-000	71-07676-000 72-07676-000
 <p>K=108,05 L=214,00 H=6,05 D=111,80</p>	DF			51-35676-000	71-07677-000
 <p>K=108,55 L=214,00 H=6,05 D=112,30</p>	DF +0,50			51-35676-050	
 <p>K=108,05 L=214,00 H=6,05 D=111,80</p>	DS			51-65677-000	
 <p>K=108,50 L=214,00 H=6,50 D=111,80</p>	DS +0,50			51-65677-050	








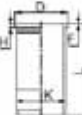
105,000

D226B-2	D	1986	2 Cyl	2080cc	32kW	(43ps)
D226B-3	D	1986	3 Cyl	3120cc	33-55kW	(45-75ps)
D226B-4	D	1986	1993	4 Cyl	4154cc	51-74kW (70-100ps)
D226B-6	D	1986	1999	6 Cyl	6234cc	77-105kW (88-120ps)

 <p>11-01678-000 CH 66,400 B- 22,400 BØ 57,500 TL 102,400</p>  35,00x82,00		<p>91-09680-000</p> <p>1 3,000  CR 2 2,000  P 3 4,000  CR</p>			31-03678-000
 <p>K=115,00 L=213,00 H+F=8,07+1,00 D=123,00</p>	WF		O-Ring/Seal 55-50917-000 2 FPM 112,00x1,50 2 FPM 115,00x4,00	51-05678-000 52-05678-000	71-07678-000 72-07678-000

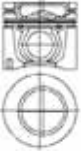




105,000

Motor4.12TCAE Euro3	D	2002	4 Cyl	4800cc	133kW	(180ps)
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 <p>11-02820-000 CH 60,500 B- 19,760 BØ 61,200 TL 96,500</p>  38,00x88,00	AP	<p>91-09677-000</p> <p>1 3,000  CkP 2 2,500  CR 3 3,500  CR</p>		Ø 105,000	31-04820-000
 <p>K=113,90 L=208,00 H+F=8,05+1,00 D=124,00</p>	WF-PH			51-05697-000	71-08820-000

105,000

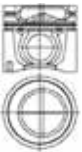




4.12TCAE	D	4 Cyl	4800cc	kW	(ps)
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 <p>11-02822-000 CH 60,500 B- 19,770 BØ 61,200 TL 96,500</p>  38,00x88,00	AP	<p>91-09677-000</p> <p>1 3,000  CkP 2 2,500  CR 3 3,500  CR</p>		Ø 105,000	31-04822-000
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105,000

4.12TCE	D	4 Cyl	4800cc		
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6.12TCE	D	6 Cyl	7200cc		
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 <p>11-02823-000 CH 60,500 B- 19,770 BØ 61,100 TL 96,500</p>  38,00x88,00	AP YS HA	<p>91-09677-000</p> <p>1 3,000  CkP 2 2,500  CR 3 3,500  CR</p>		Ø 105,000	31-04823-000
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	Type			
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109,230

DT 466PLN D 1984 1995 6 Cyl 7636cc

	11-01220-000 CH 81,650 VD1 1,300 VD2 1,500 B- 23,000 BØ 62,200 TL 127,900 46,37x88,50	AP	91-09211-000 1 3,175 Mo 2 3,175 P 3 4,000 CrP	Ø 109,230	31-03220-000
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109,230

DT 466E D 1994 2004 6 Cyl 7636cc 220kW (300ps)

	11-01221-000 CH 81,650 VD1 1,050 VD2 1,550 B- 23,000 BØ 62,200 TL 127,900 46,37x88,50	AP	91-09200-000 1 3,175 Mo 2 3,000 P 3 4,000 CrP	Ø 109,230	31-03221-000
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116,500

Maxx Force DT Engine D 6 Cyl 9340cc 220kW (300ps)


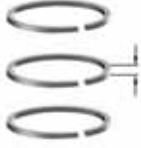






	11-01224-000 CH 81,750 VD1 2,300 VD2 1,600 B- 20,900 BØ 72,200 TL 127,900 46,37x96,60	AP	91-09212-000 1 3,500 Mo 2 3,175 P 3 4,000 CrP	Ø 116,500	31-03224-000
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116,500

DT 530E D 6 Cyl 7600cc kW (250-275ps)

	11-01225-000 CH 81,750 VD1 1,800 VD2 1,300 B- 22,200 BØ 69,300 TL 127,900 46,37x88,00	AP	91-09212-000 1 3,500 Mo 2 3,175 P 3 4,000 CrP	Ø 116,500	31-03225-000
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	K=127,80 L=239,50 H+F=9,00+1,15 D=134,87	WF		51-06136-000	71-07225-000
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	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

104,000

F4 HE 9684 J x 100

D

6 Cyl

6700cc

(ps)



11-02829-000




CH 62,400
B- 21,000
BØ 59,500
TL 96,500



38,00x82,00

AP
YS


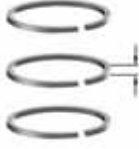
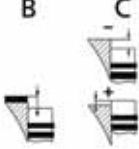

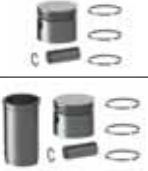
91-09416-000

1 3,000  CK
2 2,385  P
3 4,000  CR

Ø 104,000
Ø 104,400




31-04829-000
31-04829-040

Fiat / Iveco ve New Holland ile Ortak Motor

	Type				
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84,000

404D-22T Euro3	D	4 Cyl	2216cc
404D-22TA Euro3	D	4 Cyl	2216cc

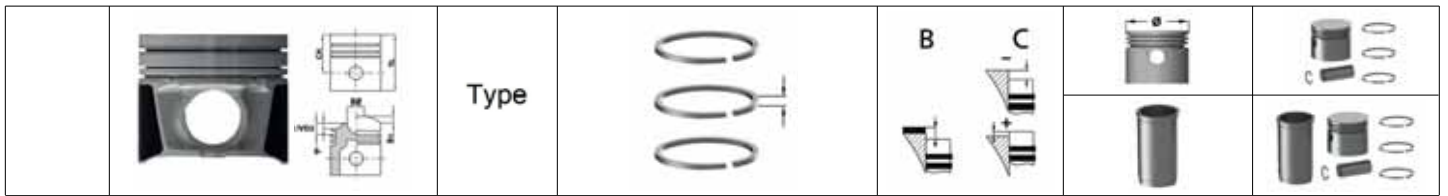
	11-02958-000 CH 47,700 B- 1,800 TL 87,700		91-09768-000 1 2,000 CrP 2 1,500 CrP 3 3,000 CR	Ø 84,000	31-04958-000
	28,00x72,00				

84,000

403C-15 / 15G Euro 2	D	2001	3 Cyl	1496cc	45261kW	(16-31ps)
403D-15T / 15G / 17 Euro 3	D		3 Cyl	1496cc	13-30kW	(18-41ps)
404C-20	D		4 Cyl	2216cc	kW	(ps)
404C-22 / 22T / 22G / 22TG Euro 2	D	2001	4 Cyl	2216cc	28-46kW	(38-65ps)
404D-22 / 22T / 22TA Euro 3	D		4 Cyl	2216cc	37-49kW	(50-66ps)
404D-22TAG Euro 4	D		4 Cyl	2216cc	36kW	(49ps)
404D-22TG Euro 2	D		4 Cyl	2216cc	27-33kW	(37-45ps)

	11-02959-000 CH 47,700 VD1 1,600 B- 1,600 TL 87,700		91-09769-000 1 2,000 CR 2 1,500 CrP 3 3,000 CR	Ø 84,000 Ø 84,500	31-04959-000 31-04959-050
	28,00x72,00				

Atlas Copco ve Perkins ile Ortak Motor

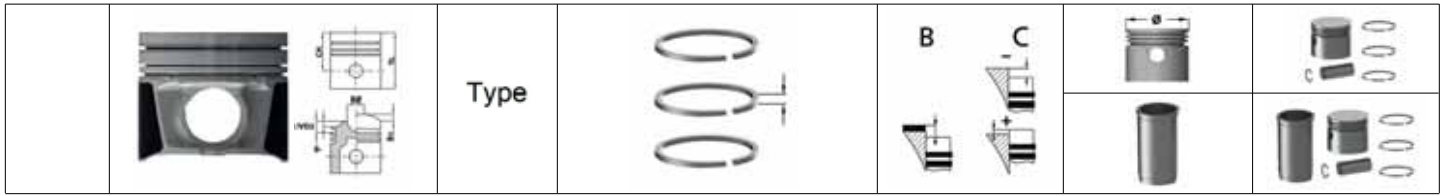


88,925							
P3 / P3.144			D	3 Cyl	2360cc	22-28kW	(30-38ps)
PA / PB / P4 / P192 / 4.192			D	4 Cyl	3140cc	29-37kW	(40-50ps)
PF / PG / P6 / 6.288			D	6 Cyl	4730cc	45kW	(62ps)

<p>11-01830-000 CH 57,200 TL 107,900</p> <p>31,75x75,30</p>	<p>91-09830-000</p> <p>1 2,385 CrP</p> <p>2 2,385 P</p> <p>3 3,160 P</p> <p>4 6,335 P</p> <p>5 6,335 P</p>				Ø 88,925	31-03830-000						
							<p>K=93,71 L=215,90 H=4,71 D=94,40</p>	DF			51-35829-000	71-07830-000
							<p>K=93,75 L=215,90 H=4,76 D=94,45</p>	DS			51-65830-000	
							<p>K=94,75 L=215,90 H=4,76 D=95,45</p>	DS +1,00			51-65830-100	

88,925							
4154			D	4 Cyl	2523cc	kW	(ps)

<p>11-01836-000 CH 60,200 TL 115,650</p> <p>31,75x75,30</p>	<p>91-09836-000</p> <p>1 2,385 CR</p> <p>2 2,385 P</p> <p>3 2,385 P</p> <p>4 4,747 CR</p> <p>5 4,747 P</p>				Ø 88,925	31-03836-000						
							<p>K=93,71 L=215,90 H=4,71 D=94,40</p>	DF			51-35829-000	71-07836-000
							<p>K=93,75 L=215,90 H=4,76 D=94,45</p>	DS			51-65830-000	
							<p>K=94,75 L=215,90 H=4,76 D=95,45</p>	DS +1,00			51-65830-100	


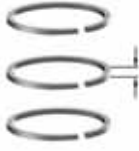




91,480

3152	D	3 Cyl	2490cc
4203	D 1964 1990	4 Cyl	3335cc
6305	D 1958 1968	6 Cyl	5003cc
A 3.152	D	3 Cyl	2503cc
A 4.203	D	4 Cyl	3335cc
A 6.305	D	6 Cyl	5003cc

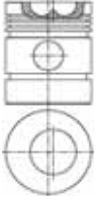






<p>11-01831-000 CH 57,200 TL 107,700</p> <p>31,75x75,30</p>	<p>91-09832-000</p> <p>1 2,385 CrP</p> <p>2 2,385 P</p> <p>3 3,160 P</p> <p>4 6,335 P</p> <p>5 6,335 CrP</p>	-0,13/0	Ø 91,480	31-03831-000

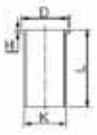
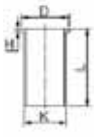
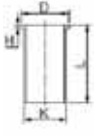
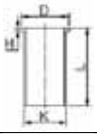
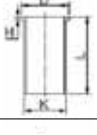
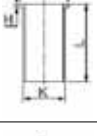
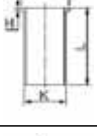
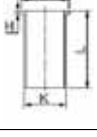
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<p>K=93,90 L=216,00 H=3,81 D=96,70</p>	DF +0,25			51-35835-025	
<p>K=94,16 L=216,00 H=3,81 D=96,70</p>	DF +0,50			51-35835-050	
<p>K=93,75 L=216,00 H=3,81 D=96,75</p>	DS			51-65834-000	
<p>K=94,30 L=216,00 H=3,81 D=96,75</p>	DS +0,50			51-65834-050	
<p>K=94,75 L=216,00 H=3,81 D=96,75</p>	DS +1,00			51-65834-100	
<p>K=95,25 L=216,00 H=3,81 D=98,25</p>	DS +1,50			51-65834-150	
<p>K=95,75 L=216,00 H=3,81 D=98,75</p>	DS +2,00			51-65834-200	

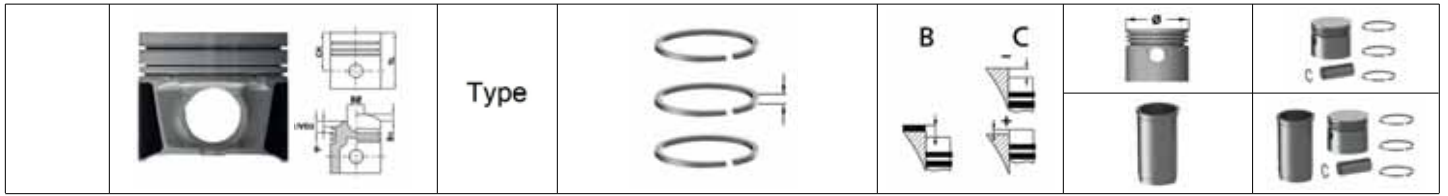
	Type			
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91,480

AD / D 3.152	D	1953	1980	3 Cyl	2490cc	28-42kW	(38-57ps)
AD / D 4.203	D			4 Cyl	3335cc	40-43kW	(55-59ps)







	11-01832-000 CH 61,910 B- 18,400 BØ 55,850 TL 109,540  31,75x75,30	91-09832-000 1 2,385  CrP 2 2,385  P 3 3,160  P 4 6,335  P 5 6,335  CrP	Ø 91,480	31-03832-000
Massey-Ferguson, Perkins ve Volvo ile Ortak Motor				

	K=93,67 L=216,00 H=3,81 D=96,70	DF		51-35835-000	71-07832-000
	K=93,90 L=216,00 H=3,81 D=96,70	DF +0,25		51-35835-025	
	K=94,16 L=216,00 H=3,81 D=96,70	DF +0,50		51-35835-050	
	K=93,75 L=216,00 H=3,81 D=96,75	DS		51-65834-000	
	K=94,30 L=216,00 H=3,81 D=96,75	DS +0,50		51-65834-050	
	K=94,75 L=216,00 H=3,81 D=96,75	DS +1,00		51-65834-100	
	K=93,80 L=216,00 H=5,00 D=97,00	DS		51-65831-000	
	K=94,30 L=216,00 H=5,00 D=97,00	DS +0,50		51-65831-050	


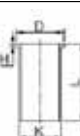


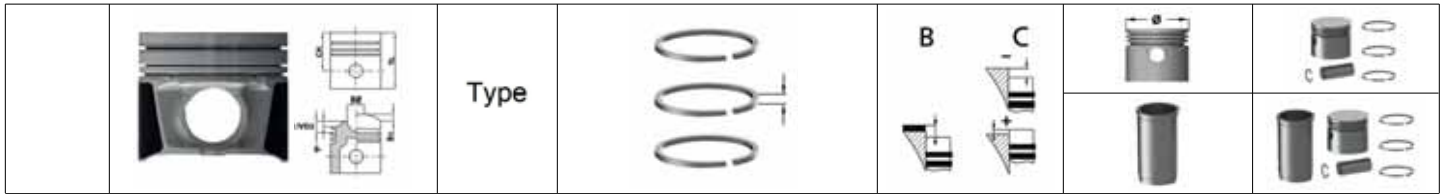
91,480

D3.152	D	1970	1980	3 Cyl	2503cc	35kW	(47ps)
D4.203	D			4 Cyl	3335cc	40kW	(54ps)

 11-01834-000 CH 62,000 B- 19,250 BØ 59,800 TL 109,600  31,75x75,30	91-09834-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 4,747  CrP	-0,025/+0,010	Ø 91,480	31-03834-000









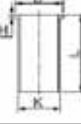

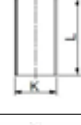

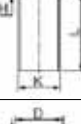
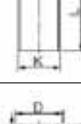
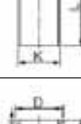

Fiat / Iveco ve Perkins ile Ortak Motor


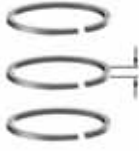
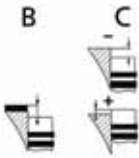

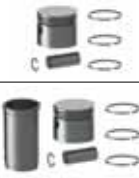
 K=93,67 L=216,00 H=3,81 D=96,70	DF			51-35835-000	71-07834-000
 K=93,90 L=216,00 H=3,81 D=96,70	DF +0,25			51-35835-025	
 K=94,16 L=216,00 H=3,81 D=96,70	DF +0,50			51-35835-050	
 K=93,80 L=216,00 H=5,00 D=97,00	DS			51-65831-000	
 K=94,30 L=216,00 H=5,00 D=97,00	DS +0,50			51-65831-050	
 K=93,75 L=216,00 H=3,81 D=96,75	DS			51-65834-000	
 K=94,30 L=216,00 H=3,81 D=96,75	DS +0,50			51-65834-050	
 K=94,75 L=216,00 H=3,81 D=96,75	DS +1,00			51-65834-100	



91,480












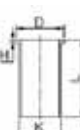
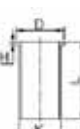
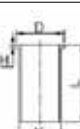
T3.152(HC) D 4 Cyl cc kW (ps)


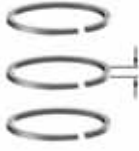
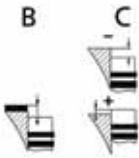

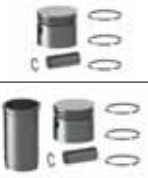



  	<p>11-01857-000 CH 61,800 B- 18,800 BØ 59,700 TL 109,400</p> <p>31,75x75,30</p>	<p>AP</p>	<p>91-39834-000 1 2,385  CrP 2 2,385  P 3 4,747  CrP</p>	<p>-0,025/+0,152</p>	<p>Ø 91,480</p>	<p>31-03857-000</p>
	<p>K=93,67 L=216,00 H=3,81 D=96,70</p>	<p>DF</p>			<p>51-35835-000</p>	<p>71-07857-000</p>
	<p>K=93,90 L=216,00 H=3,81 D=96,70</p>	<p>DF +0,25</p>			<p>51-35835-025</p>	
	<p>K=94,16 L=216,00 H=3,81 D=96,70</p>	<p>DF +0,50</p>			<p>51-35835-050</p>	
	<p>K=93,76 L=216,00</p>	<p>DS</p>			<p>51-65832-000</p>	
	<p>K=94,50 L=216,00</p>	<p>DS +0,75</p>			<p>51-65832-075</p>	
	<p>K=93,75 L=216,00 H=3,81 D=96,75</p>	<p>DS</p>			<p>51-65834-000</p>	
	<p>K=94,30 L=216,00 H=3,81 D=96,75</p>	<p>DS +0,50</p>			<p>51-65834-050</p>	
	<p>K=94,75 L=216,00 H=3,81 D=96,75</p>	<p>DS +1,00</p>			<p>51-65834-100</p>	
	<p>K=95,25 L=216,00 H=3,81 D=98,25</p>	<p>DS +1,50</p>			<p>51-65834-150</p>	
	<p>K=95,75 L=216,00 H=3,81 D=98,75</p>	<p>DS +2,00</p>			<p>51-65834-200</p>	

	Type				
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91,480








D3.152	D	3 Cyl
D4.203	D	4 Cyl

	11-01860-000 CH 62,275 B- 18,670 BØ 55,800 TL 109,900		91-09860-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,335  CrP		Ø 91,480	31-03860-000
	31,75x75,30					
	K=93,67 L=216,00 H=3,81 D=96,70	DF			51-35835-000	71-07860-000
	K=93,90 L=216,00 H=3,81 D=96,70	DF +0,25			51-35835-025	
	K=94,16 L=216,00 H=3,81 D=96,70	DF +0,50			51-35835-050	
	K=93,75 L=216,00 H=3,81 D=96,75	DS			51-65834-000	
	K=94,30 L=216,00 H=3,81 D=96,75	DS +0,50			51-65834-050	
	K=94,75 L=216,00 H=3,81 D=96,75	DS +1,00			51-65834-100	
	K=95,25 L=216,00 H=3,81 D=98,25	DS +1,50			51-65834-150	
	K=95,75 L=216,00 H=3,81 D=98,75	DS +2,00			51-65834-200	

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						








95,000

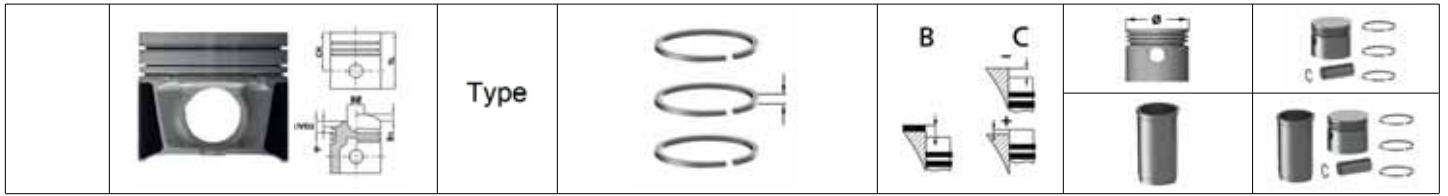
Seri 900 / Seri 903.27 T Euro1 D 1997 3 Cyl 2700cc kW (ps)

 <p>11-02463-000 CH 62,000 B- 21,000 BØ 50,000 TL 99,700</p>  <p>31,75x75,00</p>		<p>91-09463-000 1 2,500  Mo 2 2,000  Mo 3 4,000  CR</p>			<p>Ø 95,000</p>	<p>31-04463-000</p>
 <p>K=97,10 L=216,00</p>	<p>DS</p>				<p>51-65837-000</p>	
 <p>K=97,60 L=216,00</p>	<p>DS +0,50</p>				<p>51-65837-050</p>	

95,000

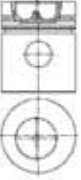




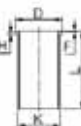
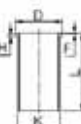
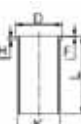
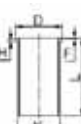
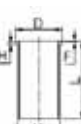
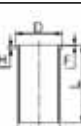
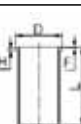
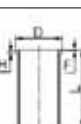
Seri 900 / Seri 903.27 T Euro1 D 1997 3 Cyl 2700cc

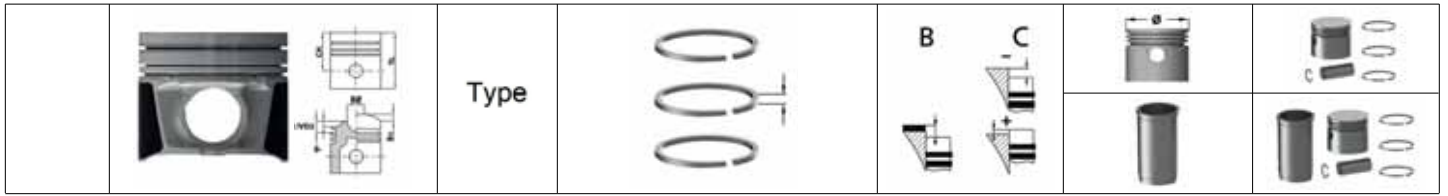
 <p>11-02464-000 CH 62,000 B- 21,000 BØ 50,000 TL 99,700</p>  <p>31,75x75,00</p>	<p>AP</p>	<p>91-09464-000 1 3,000  CR 2 2,000  CR 3 4,000  CR</p>			<p>Ø 95,000</p>	<p>31-04464-000</p>
 <p>K=97,10 L=216,00</p>	<p>DS</p>				<p>51-65837-000</p>	
 <p>K=97,60 L=216,00</p>	<p>DS +0,50</p>				<p>51-65837-050</p>	



98,480

6.354.4 D 6 Cyl 5794cc

 <p>11-01384-000 CH 69,920 B- 25,500 BØ 54,100 TL 120,720</p>  34,93x84,10	<p>AP</p> <p>CP</p>	<p>91-09867-000</p> <p>1 2,385  CrP</p> <p>2 2,385  P</p> <p>3 4,747  CR</p>	<p>0/+0,18</p>	<p>Ø 98,480</p>	<p>31-03384-000</p>
 <p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	<p>DF</p>			<p>51-35844-000</p>	<p>71-07384-000</p>
 <p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	<p>DF</p> <p>+1,00</p>			<p>51-35844-100</p>	
 <p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p>			<p>51-65840-000</p>	
 <p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p> <p>+0,25</p>			<p>51-65840-025</p>	
 <p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p> <p>+0,50</p>			<p>51-65840-050</p>	
 <p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	<p>DS</p> <p>+1,00</p>			<p>51-65840-100</p>	
 <p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	<p>DS</p> <p>+1,50</p>			<p>51-65840-150</p>	
 <p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	<p>DS</p> <p>+2,50</p>			<p>51-65840-250</p>	



98,480	
A6.354.1	D 6 Cyl 5800cc 71-82kW (97-112ps)
6.354V	D 1970 1989 6 Cyl 5800cc 87kW (118ps)
6354	D 1968 1990 6 Cyl 5800cc 69-82kW (94-112ps)

<p>11-01840-000 CH 70,100 B- 25,700 BØ 54,000 TL 120,700</p> <p>34,93x84,10</p>	<p>91-09863-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 6,350 CrP 5 6,350 P</p>	Ø 98,480	31-03840-000
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Ihc/Case, Leyland, Massey-Ferguson ve Perkins ile Ortak Motor


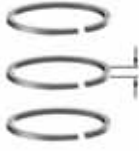
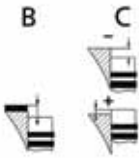

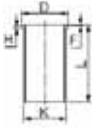
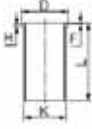
<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF		51-35844-000
<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF		51-35844-000 71-07840-000
<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00		51-35844-100
<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS		51-65840-000
<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25		51-65840-025
<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50		51-65840-050
<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00		51-65840-100
<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50		51-65840-150

		Type				
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	

98,480						
A4.212		D	1970	1990	4 Cyl	3864cc 44kW (60ps)
4212		D			4 Cyl	3864cc 44-47kW (60-64ps)

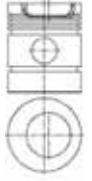











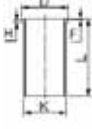

	11-01842-000 CH 76,500 B- 19,200 BØ 54,000 TL 127,300		91-49863-000 1 2,385 CrP 2 2,385 P 3 2,385 P 4 6,350 CrP		Ø 98,480	31-03842-000
	34,93x84,10					
Ihc/Case, Massey-Ferguson ve Perkins ile Ortak Motor						


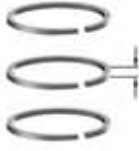
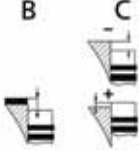

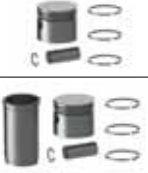


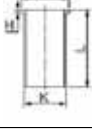
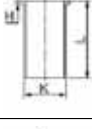
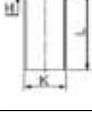

	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07842-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	

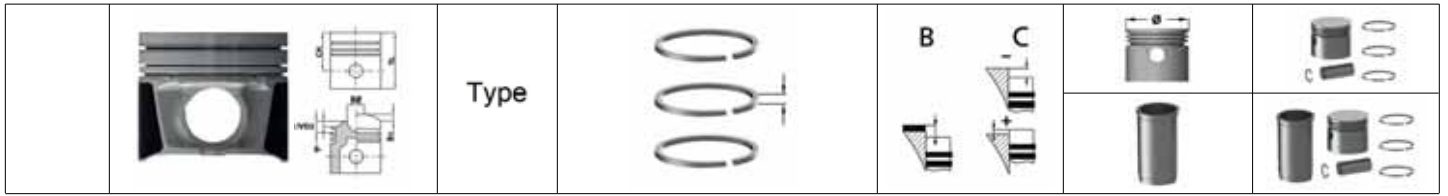
	Type			
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50		51-65840-150
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50		51-65840-250

98,480

AD4.236	D 1961	4 Cyl	3864cc	48-60kW	(59-80ps)
D39C	D 1961	4 Cyl	3864cc	48-60kW	(59-80ps)


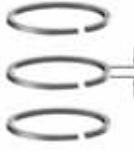
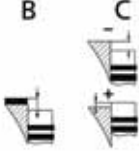

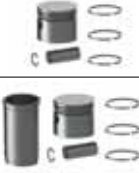



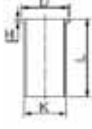

	11-01843-000 CH 70,680 B- 20,710 BØ 61,000 TL 121,480  34,93x84,10		91-09863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP 5 6,350  P	+0,28/+0,48	Ø 98,480	31-03843-000
	K=104,21 L=227,00 H=3,83 D=107,38	DF			51-35842-000	71-07124-000
	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07843-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	

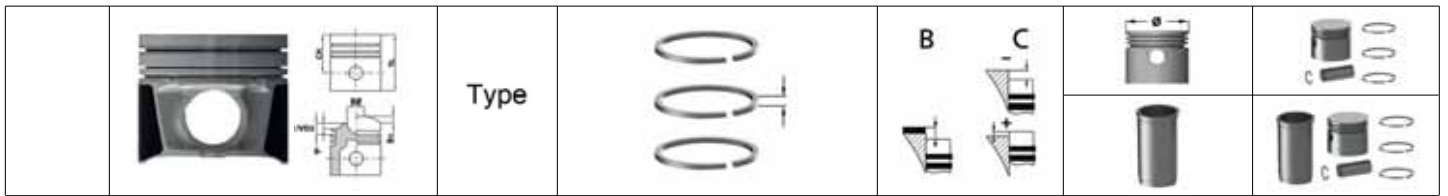
		Type				
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	



98,480							
4.236		D	1974	1990	4 Cyl	3864cc	48-60kW (59-80ps)
4236		D	1974	1990	4 Cyl	3864cc	48-60kW (59-80ps)
A4.236		D	1974	1990	4 Cyl	3864cc	37-65kW (50-89ps)
AD4.236		D	1961		4 Cyl	3864cc	48-60kW (59-80ps)


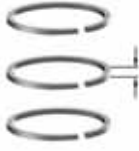
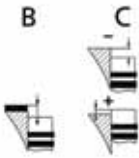

<p>11-01848-000 CH 70,050 B- 20,150 BØ 61,000 TL 120,850</p> <p>34,93x84,10</p>	<p>AP</p> <p>CP</p>	<p>91-09867-000</p> <p>1 2,385 CrP 2 2,385 P 3 4,747 CR</p>	<p>+0,28/+0,48</p>	<p>Ø 98,480</p>	<p>31-03848-000</p>
	<p>Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RVI) ve Volvo ile Ortak Motor</p>				
<p>K=104,21 L=227,00 H=3,83 D=107,38</p>	DF			<p>51-35842-000</p>	<p>71-07858-000</p>
<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			<p>51-35844-000</p>	<p>71-07848-000</p>
<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00			<p>51-35844-100</p>	
<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS			<p>51-65840-000</p>	
<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25			<p>51-65840-025</p>	
<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50			<p>51-65840-050</p>	
<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00			<p>51-65840-100</p>	
<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50			<p>51-65840-150</p>	

		Type				
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	









98,480
 AD4.236 / D39C D 4 Cyl 3864cc 57-59kW (78-80ps)

	<p>11-01854-000 CH 69,925 B- 19,960 BØ 60,500 TL 120,580</p> <p> 34,93x84,10</p>		<p>91-09863-000</p> <p>1 2,385 CrP 2 2,385 P 3 2,385 P 4 6,350 CrP 5 6,350 P</p>		<p>Ø 98,480</p>	<p>31-03854-000</p>
	<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	<p>DF</p>			<p>51-35844-000</p>	<p>71-07854-000</p>
	<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	<p>DF +1,00</p>			<p>51-35844-100</p>	
	<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p>			<p>51-65840-000</p>	
	<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS +0,25</p>			<p>51-65840-025</p>	
	<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS +0,50</p>			<p>51-65840-050</p>	
	<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	<p>DS +1,00</p>			<p>51-65840-100</p>	
	<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	<p>DS +1,50</p>			<p>51-65840-150</p>	
	<p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	<p>DS +2,50</p>			<p>51-65840-250</p>	
	<p>K=103,28 L=229,00 H+F= +</p>	<p>DS</p>			<p>51-65845-000</p>	

	Type			
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98,480

4212 D 1969 4 Cyl 3475cc 44-47kW (60-64ps)

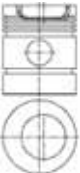






	11-01859-000 CH 76,500 B- 19,200 BØ 59,700 TL 127,300		91-49863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP	+0,38/+0,53	Ø 98,480	31-03859-000
	34,93x84,10					

	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07859-000
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	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
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98,480

4236 D 1974 1990 4 Cyl 3864cc 48-60kW (59-80ps)
 A4.236 D 1974 1990 4 Cyl 3864cc 37-65kW (50-89ps)
 AD4.236 D 1961 4 Cyl 3864cc 48-60kW (59-80ps)


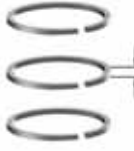
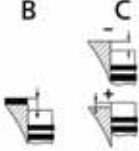

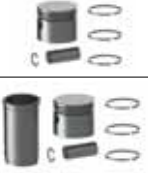





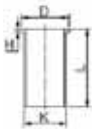

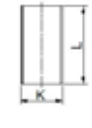
	11-01863-000 CH 70,250 B- 20,280 BØ 60,500 TL 120,900		91-09863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP 5 6,350  P		Ø 98,480	31-03863-000
	34,93x84,10					

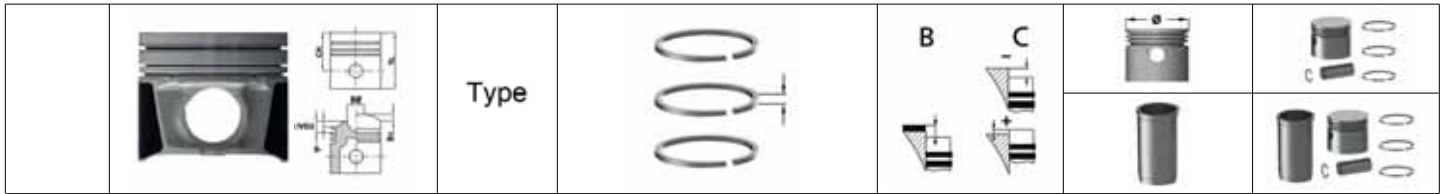
Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RVI) ve Volvo ile Ortak Motor

	K=104,21 L=227,00 H=3,83 D=107,38	DF			51-35842-000	71-07864-000
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	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07863-000
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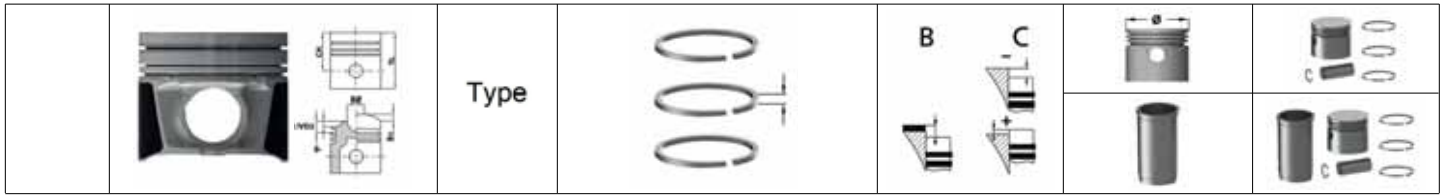
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
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		Type				
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	



98,480
 6.354.4 D 1975 6 Cyl 5794cc 92kW (125ps)

<p>11-01867-000 CH 69,800 B- 23,870 BØ 54,000 TL 120,600</p> <p>34,93x84,10</p>	AP CP	<p>91-09867-000</p> <p>1 2,385 CrP 2 2,385 P 3 4,747 CR</p>		Ø 98,480	31-03867-000
<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			51-35844-000	71-07867-000
<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00			51-35844-100	
<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS			51-65840-000	
<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25			51-65840-025	
<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50			51-65840-050	
<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00			51-65840-100	
<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50			51-65840-150	
<p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	DS +2,50			51-65840-250	




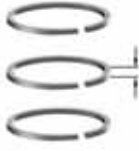
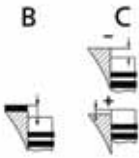

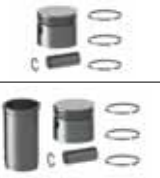
98,480

T 4.236	D 1984	4 Cyl	3864cc	49kW	(66ps)
T 4.38	D	4 Cyl	3864cc	58-72kW	(79-98ps)

<p>11-01868-000 CH 70,250 B- 19,950 BØ 61,000 TL 108,250</p> <p>38,10x82,50</p>	AP	<p>91-09868-000</p> <p>1 3,160 CrP</p> <p>2 2,385 P</p> <p>3 4,747 CrP</p>	Ø 98,480	31-03868-000
	CP			

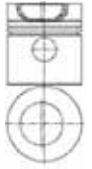




Massey-Ferguson, Perkins ve Renault Trucks (RVI) ile Ortak Motor





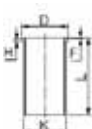
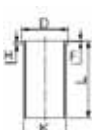

<p>K=104,21 L=227,00 H=3,83 D=107,38</p>	DF		51-35842-000	71-07868-000
<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS		51-65840-000	
<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25		51-65840-025	
<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50		51-65840-050	
<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00		51-65840-100	
<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50		51-65840-150	
<p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	DS +2,50		51-65840-250	
<p>K=104,26 L=227,00 H=3,81 D=107,38</p>	DS		51-65841-000	

	Type				
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	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100

98,480
4.236 Series A4.212 D 1963 4 Cyl 3470cc kW (ps)

	11-01869-000 CH 76,530 B- 19,600 BØ 54,000 TL 116,130  34,93x84,10		91-39863-000 1 2,385  CrP 2 2,385  P 3 6,350  CrP		Ø 98,480	31-03869-000
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	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07869-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	


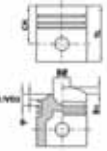
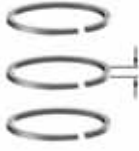
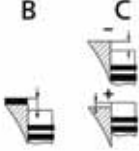




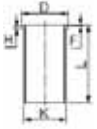
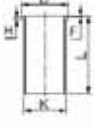
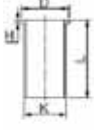
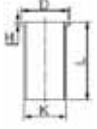
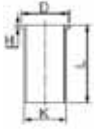
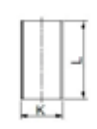
		Type					
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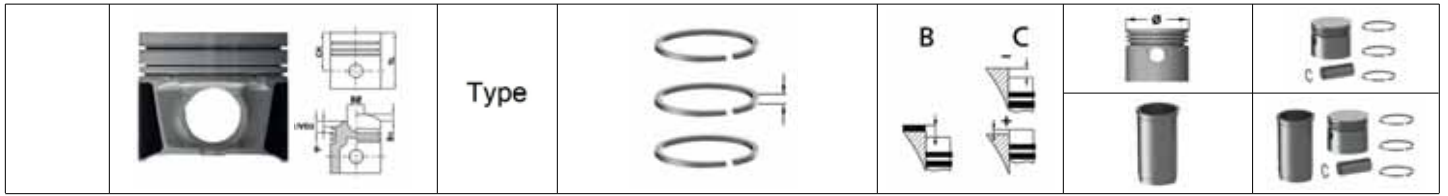
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50				51-65840-250	
	K=103,28 L=229,00 H+F= +	DS				51-65845-000	

98,480

4.236AT D 4 Cyl 3864cc

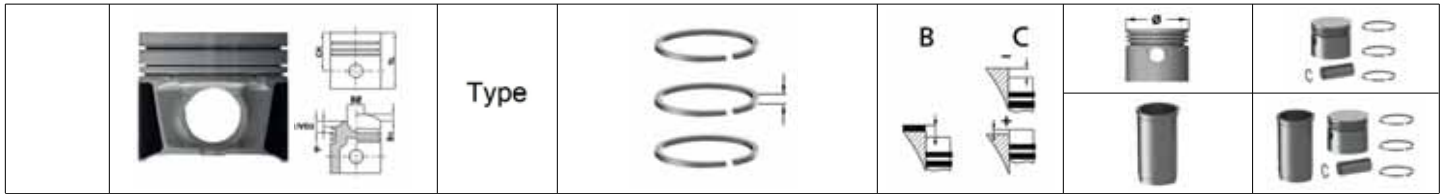
	11-01871-000 CH 70,250 B- 20,400 BØ 61,000 TL 108,250 38,10x82,50	AP CP	91-09868-000 1 3,160 CrP 2 2,385 P 3 4,747 CrP			Ø 98,480	31-03871-000
	K=104,21 L=227,00 H=3,83 D=107,38	DF				51-35842-000	71-07872-000
	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF				51-35844-000	71-07871-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00				51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS				51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25				51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50				51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00				51-65840-100	

		<p>Type</p>			 	 
	<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	<p>DS +1,50</p>			<p>51-65840-150</p>	
	<p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	<p>DS +2,50</p>			<p>51-65840-250</p>	
	<p>K=104,26 L=227,00 H=3,81 D=107,38</p>	<p>DS</p>			<p>51-65841-000</p>	
	<p>K=104,75 L=227,00 H=3,81 D=107,38</p>	<p>DS +0,50</p>			<p>51-65841-050</p>	
	<p>K=105,25 L=227,00 H=5,00 D=108,35</p>	<p>DS +1,00</p>			<p>51-65841-100</p>	
	<p>K=103,28 L=229,00 H+F= +</p>	<p>DS</p>			<p>51-65845-000</p>	











98,480
 6.354.4 D 4 Cyl 5800cc 116kW (155ps)

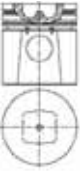







	<p>11-01872-000 CH 70,250 B- 19,250 BØ 66,600 TL 108,250</p> <p>38,10x82,50</p>	<p>AP CP</p>	<p>91-09868-000 1 3,160 CrP 2 2,385 P 3 4,747 CrP</p>	<p>0/+0,18</p>	<p>Ø 98,480</p>	<p>31-03872-000</p>
	<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p>			<p>51-65840-000</p>	
	<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS +0,25</p>			<p>51-65840-025</p>	
	<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS +0,50</p>			<p>51-65840-050</p>	
	<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	<p>DS +1,00</p>			<p>51-65840-100</p>	
	<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	<p>DS +1,50</p>			<p>51-65840-150</p>	
	<p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	<p>DS +2,50</p>			<p>51-65840-250</p>	

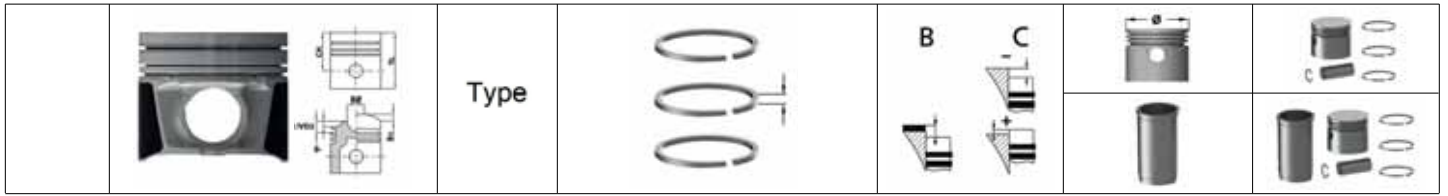


100,000						
BH 509 / Phazer 90	D	4 Cyl	4000cc	kW	(ps)	
Phaser 1000 Series 1004.4T	D	4 Cyl	4000cc	kW	(ps)	
Phaser 1000 Series 1006.6T	D	6 Cyl	6000cc	kW	(ps)	

 <p>11-01850-000 CH 70,020 B- 20,140 TL 108,000</p>  34,93x84,10	AP	<p>91-09850-000</p> <p>1 2,500  Mo 2 2,500  P 3 4,000  CrP</p>	+0,14/+0,36	Ø 100,000	31-03850-000
	CP				
 <p>K=104,21 L=226,45 H=3,85 D=107,45</p>	DF			51-35848-000	71-07850-000
 <p>K=104,25 L=226,45 H=3,85 D=107,45</p>	DS			51-65847-000	
 <p>K=104,50 L=226,45 H=3,85 D=107,45</p>	DS +0,25			51-65847-025	

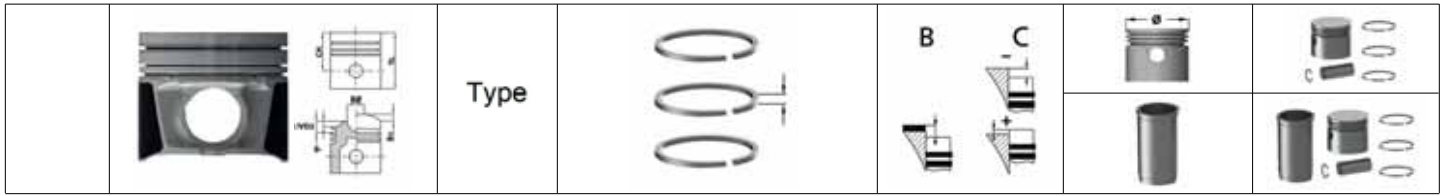
100,000						
BH 509 / Phazer 90	D	4 Cyl	4000cc			
Phaser 1000 Series 1004.4T	D	4 Cyl	4000cc			
Phaser 1000 Series 1006.6T	D	6 Cyl	6000cc			

 <p>11-01855-000 CH 69,950 B- 19,500 BØ 56,000 TL 108,000</p>  38,10x82,50	AP	<p>91-09855-000</p> <p>1 3,500  MoP 2 2,500  P 3 4,000  CrP</p>		Ø 100,000	31-03855-000
	CP				
 <p>K=104,21 L=226,45 H=3,85 D=107,45</p>	DF			51-35848-000	71-07855-000
 <p>K=104,25 L=226,45 H=3,85 D=107,45</p>	DS			51-65847-000	
 <p>K=104,50 L=226,45 H=3,85 D=107,45</p>	DS +0,25			51-65847-025	








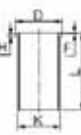
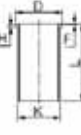

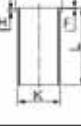
100,000
 D 235 / Phazer 160 T / 180 TI D 6 Cyl 5985cc

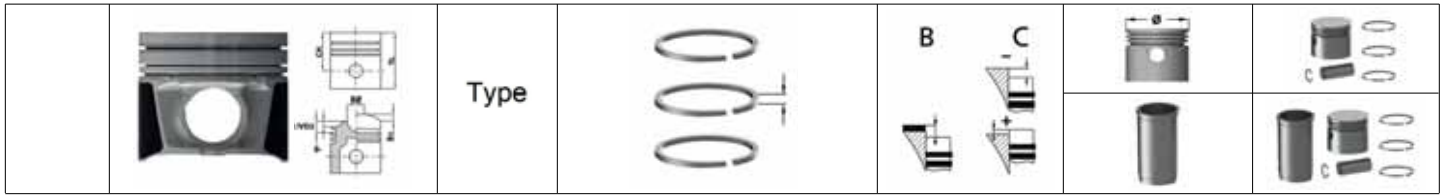
	<p>11-01856-000 CH 70,160 B- 19,500 TL 108,060</p> <p> 38,10x82,50</p>	<p>AP CP</p>	<p>91-09856-000 1 3,000 MoP 2 2,500 P 3 4,000 CrP</p>	<p>+0,25/+0,40</p>	<p>Ø 100,000</p>	<p>31-03856-000</p>
	<p>K=104,21 L=226,45 H=3,85 D=107,45</p>	<p>DF</p>			<p>51-35848-000</p>	<p>71-07856-000</p>
	<p>K=104,25 L=226,45 H=3,85 D=107,45</p>	<p>DS</p>			<p>51-65847-000</p>	
	<p>K=104,50 L=226,45 H=3,85 D=107,45</p>	<p>DS +0,25</p>			<p>51-65847-025</p>	
	<p>K=104,28 L=227,30 H=3,90 D=107,70</p>	<p>DS</p>			<p>51-65850-000</p>	
	<p>K=104,80 L=227,30 H=3,90 D=107,70</p>	<p>DS +0,50</p>			<p>51-65850-050</p>	
	<p>K=105,28 L=227,30 H=5,00 D=108,70</p>	<p>DS +1,00</p>			<p>51-65850-100</p>	



100,000

T4.40	D	1990	1992	4 Cyl	3990cc
T6.60	D	1994		6 Cyl	5984cc

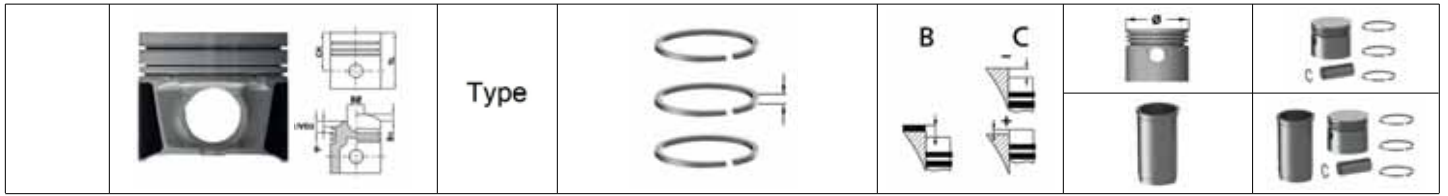
 <p>11-01861-000 CH 70,300 B- 21,750 BØ 52,800 TL 108,230</p> <p> 39,70x78,00</p>	AP	<p>91-09855-000</p> <p>1 3,500  MoP 2 2,500  P 3 4,000  CrP</p>	+0,382/+0,504	Ø 100,000	31-03861-000
Perkins ve Renault Trucks (RVI) ile Ortak Motor					
 <p>K=104,21 L=227,00 H+F=3,86+1,00 D=107,45</p>	DF			51-35828-000	71-07861-000
 <p>K=104,23 L=227,00 H+F=3,86+1,00 D=107,45</p>	DF +0,02			51-35828-002	
 <p>K=104,28 L=227,00 H+F=3,85+0,90 D=107,45</p>	DS			51-65858-000	
 <p>K=104,78 L=227,00 H+F=3,85+0,90 D=107,45</p>	DS +0,50			51-65858-050	



100,000							
1106C-E60TA Euro 2	D	2001	6 Cyl	5984cc	88-130kW	(120-175ps)	
T 4.40	D	1992	4 Cyl	3990cc	82-88kW	(112-120ps)	
T 6.60	D	1994	6 Cyl	5984cc	88kW	(120ps)	

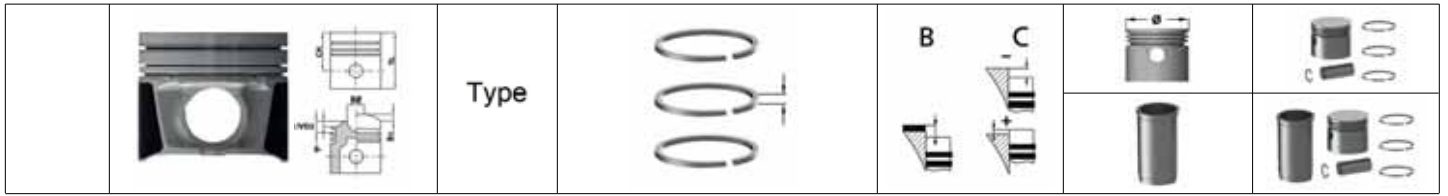
<p>11-02466-000 CH 70,266 B- 21,750 BØ 52,800 TL 108,230</p> <p>39,70x78,00</p>	AP	<p>91-09466-000</p> <p>1 3,500 MoP</p> <p>2 2,500 MoP</p> <p>3 3,500 CR</p>		Ø 100,000	31-04466-000
	Massey-Ferguson, Perkins ve Renault Trucks (RVI) ile Ortak Motor				

<p>K=104,21 L=226,45 H=3,85 D=107,45</p>	DF			51-35848-000	71-08466-000
<p>K=104,26 L=227,50 H+F=3,81+1,00 D=107,35</p>	DF			51-35849-000	71-08468-000
<p>K=104,26 L=227,50 H+F=3,81+1,00 D=107,35</p>	DS			51-65839-000	
<p>K=104,76 L=227,50 H+F=3,81+1,00 D=107,35</p>	DS +0,50			51-65839-050	
<p>K=104,25 L=226,45 H=3,85 D=107,45</p>	DS			51-65847-000	
<p>K=104,50 L=226,45 H=3,85 D=107,45</p>	DS +0,25			51-65847-025	








101,054
 4.248 Series A4.248 / 4.236 Series A4.248 D 6 Cyl 4064cc 53-61kW (72-83ps)

	<p>11-01851-000 CH 70,300 B- 21,100 BØ 61,450 TL 121,100</p> <p> 34,93x84,10</p>	<p>Type</p> <p>CP</p>	<p>91-09851-000</p> <p>1 2,500 Mo 2 2,500 3 5,000 CR</p>	<p>+0,08/+0,25</p>	<p>Ø 101,054</p>	<p>31-03851-000</p>
	<p>K=104,20 L=227,20 H+F=3,80+0,85 D=107,40</p>	<p>DF</p>			<p>51-35852-000</p>	<p>71-07851-000</p>
	<p>K=104,33 L=227,20 H+F=3,85+0,90 D=107,45</p>	<p>DS</p>			<p>51-65851-000</p>	
	<p>K=104,55 L=227,20 H+F=3,85+0,90 D=107,45</p>	<p>DS +0,25</p>			<p>51-65851-025</p>	
	<p>K=104,80 L=227,20 H+F=3,85+0,90 D=107,45</p>	<p>DS +0,50</p>			<p>51-65851-050</p>	
	<p>K=105,05 L=227,20 H+F=3,85+0,90 D=107,45</p>	<p>DS +0,75</p>			<p>51-65851-075</p>	
	<p>K=105,30 L=227,20 H+F=3,85+0,90 D=108,45</p>	<p>DS +1,00</p>			<p>51-65851-100</p>	
	<p>K=105,80 L=227,20 H+F=5,00+0,90 D=108,95</p>	<p>DS +1,50</p>			<p>51-65851-150</p>	
	<p>K=103,33 L=224,00</p>	<p>DS</p>			<p>51-65853-000</p>	


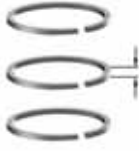
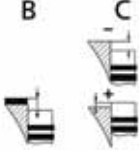




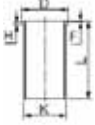
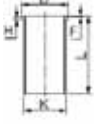
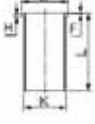
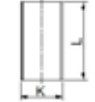


101,054
 4248 D 1969 4 Cyl 4064cc 53-66kW (72-90ps)

	<p>11-01852-000 CH 70,100 B- 21,000 BØ 61,500 TL 120,900</p> <p> 34,93x84,10</p>	<p>Type</p> <p>CP</p>	<p>91-09852-000</p> <p>1 2,385  CR 2 2,385  CR 3 2,385  CR 4 6,335  CR</p>		<p>Ø 101,054</p>	<p>31-03852-000</p>
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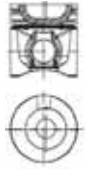





Massey-Ferguson ve Perkins ile Ortak Motor

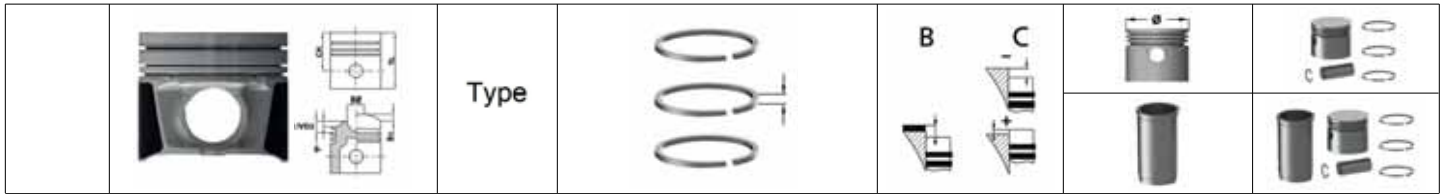
	<p>K=104,21 L=227,00 H=3,83 D=107,38</p>	<p>DF</p>			<p>51-35846-000</p>	<p>71-07131-000</p>
	<p>K=104,20 L=227,20 H+F=3,80+0,85 D=107,40</p>	<p>DF</p>			<p>51-35852-000</p>	<p>71-07852-000</p>
	<p>K=104,26 L=227,00 H=3,83 D=107,38</p>	<p>DS</p>			<p>51-65843-000</p>	
	<p>K=104,76 L=227,00 H=3,83 D=107,38</p>	<p>DS +0,50</p>			<p>51-65843-050</p>	
	<p>K=105,26 L=227,00 H=5,00 D=107,38</p>	<p>DS +1,00</p>			<p>51-65843-100</p>	
	<p>K=104,33 L=227,20 H+F=3,85+0,90 D=107,45</p>	<p>DS</p>			<p>51-65851-000</p>	
	<p>K=104,55 L=227,20 H+F=3,85+0,90 D=107,45</p>	<p>DS +0,25</p>			<p>51-65851-025</p>	
	<p>K=104,80 L=227,20 H+F=3,85+0,90 D=107,45</p>	<p>DS +0,50</p>			<p>51-65851-050</p>	

		Type			 	 
	K=105,05 L=227,20 H+F=3,85+0,90 D=107,45	DS +0,75			51-65851-075	
	K=105,30 L=227,20 H+F=3,85+0,90 D=108,45	DS +1,00			51-65851-100	
	K=105,80 L=227,20 H+F=5,00+0,90 D=108,95	DS +1,50			51-65851-150	
	K=103,33 L=224,00	DS			51-65853-000	







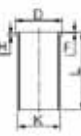
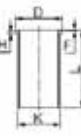
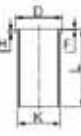


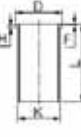
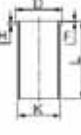

101,060

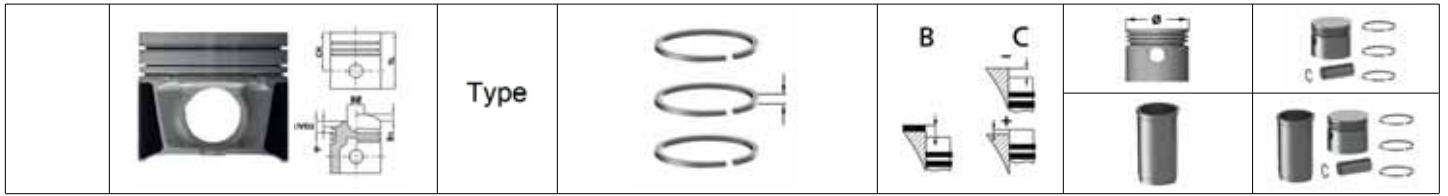
P4000 NA D 4 Cyl 3929cc kW (ps)

   34,92x77,00	11-01967-000 CH 70,500 B- 21,140 BØ 61,450 TL 108,500	AP	99-09376-000 1 3,000  CR St 2 2,500  P 3 4,000  CR St		Ø 101,060	39-03967-000
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




101,060
 Motor 4248 D 8 Cyl cc

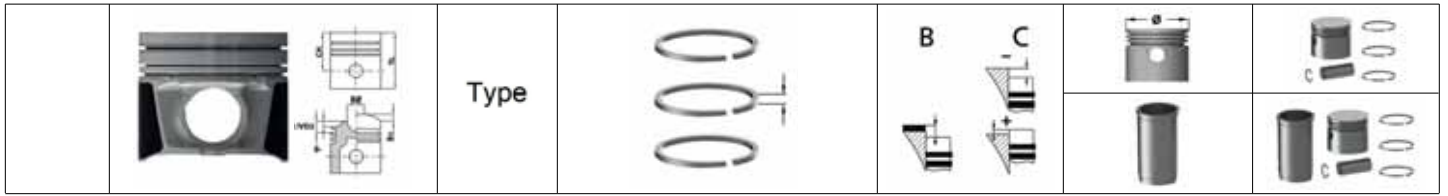
  34,92x83,90	11-02474-000 CH 70,620 B- 20,780 BØ 61,400 TL 121,420		91-09837-000 1 2,385  CR 2 2,385  P 3 2,385  P 4 4,747  CR		Ø 101,060	31-04474-000
	K=104,20 L=227,20 H+F=3,80+0,85 D=107,40	DF			51-35852-000	71-07820-000
	K=104,33 L=227,20 H+F=3,85+0,90 D=107,45	DS			51-65851-000	
	K=104,55 L=227,20 H+F=3,85+0,90 D=107,45	DS +0,25			51-65851-025	
	K=104,80 L=227,20 H+F=3,85+0,90 D=107,45	DS +0,50			51-65851-050	
	K=105,05 L=227,20 H+F=3,85+0,90 D=107,45	DS +0,75			51-65851-075	
	K=105,30 L=227,20 H+F=3,85+0,90 D=108,45	DS +1,00			51-65851-100	
	K=105,80 L=227,20 H+F=5,00+0,90 D=108,95	DS +1,50			51-65851-150	
	K=103,33 L=224,00	DS			51-65853-000	



103,000

1004.42 D 4 Cyl 4230cc 45kW (61ps)

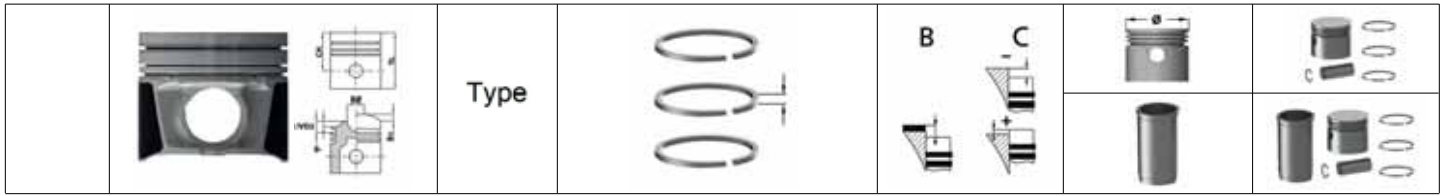
	<p>11-02460-000 CH 70,240 VD1 1,100 VD2 1,500 B- 22,000 BØ 52,300 TL 108,200</p>  39,70x74,00		<p>91-09461-000 1 2,500  MoP 2 2,500  P 3 3,500  CR</p>		<p>Ø 103,000</p>	<p>31-04460-000</p>
	<p>K=106,97 L=228,00 H=4,00 D=110,00</p>	<p>DF</p>			<p>51-35827-000</p>	<p>71-08460-000</p>
	<p>K=107,03 L=228,00 H=4,00 D=110,00</p>	<p>DS</p>			<p>51-65861-000</p>	



105,000		Type		B	C		
1103A-33G		D					
1103A-33TG1		D					
1103C-33 Euro2		D 2004					
1103C-33T Euro2		D 2004					
1103C-33TG2		D					
1103D-33 Euro3		D					
1104A-44		D					
1104C-44T Euro2		D 2001					
1104C-44TA Euro2		D 2001					
1104C-44TG2 / 44TG3 Euro2		D					
1104C-E44T Euro2		D					
1104C-E44TA Euro2		D					
1104D-44TG1 Euro3		D					

<p>11-02465-000 CH 70,100 B- 22,000 BØ 55,100 TL 108,000</p> <p>39,70x78,00</p>	<p>AP</p> <p>91-09465-000</p> <p>1 3,500 MoP</p> <p>2 2,500 P</p> <p>3 3,500 CrP</p>				<p>Ø 105,000</p> <p>Ø 105,500</p> <p>Ø 106,000</p>	<p>31-04465-000</p> <p>31-04465-050</p> <p>31-04465-100</p>
					<p>Massey-Ferguson ve Perkins ile Ortak Motor</p>	

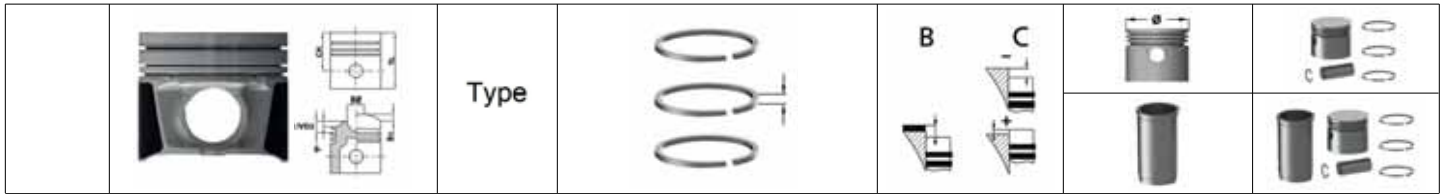
<p>K=108,00 L=227,00 H=5,10 D=109,40</p>	DF				51-35833-000	71-08465-000
<p>K=108,06 L=227,00 H=5,10 D=109,40</p>	DS				51-65836-000	
<p>K=108,56 L=227,00 H=5,10 D=109,90</p>	DS +0,50				51-65836-050	



105,000							
1103C-33 Euro2		D	2004	3 Cyl	3300cc	39-43kW	(53-58ps)
1104A-44		D		4 Cyl	4400cc	50-64kW	(67-84ps)
1104C-44 Euro2		D	2001	4 Cyl	4400cc	50-64kW	(67-84ps)
1104C-E44 Euro2		D		4 Cyl	4400cc	50-64kW	(67-84ps)
1104D-44 Euro3		D		4 Cyl	4400cc	54-56kW	(73-75ps)

	11-02467-000 CH 70,100 B- 22,400 BØ 51,250 TL 108,000	91-09467-000 1 2,500 CR 2 2,500 P 3 3,500 CrP	Ø 105,000 Ø 105,500 Ø 106,000	31-04467-000 31-04467-050 31-04467-100
	39,70x70,00			
Massey-Ferguson ve Perkins ile Ortak Motor				

	K=108,00 L=227,00 H=5,10 D=109,40	DF			51-35833-000	71-08467-000
	K=108,06 L=227,00 H=5,10 D=109,40	DS			51-65836-000	
	K=108,56 L=227,00 H=5,10 D=109,90	DS +0,50			51-65836-050	

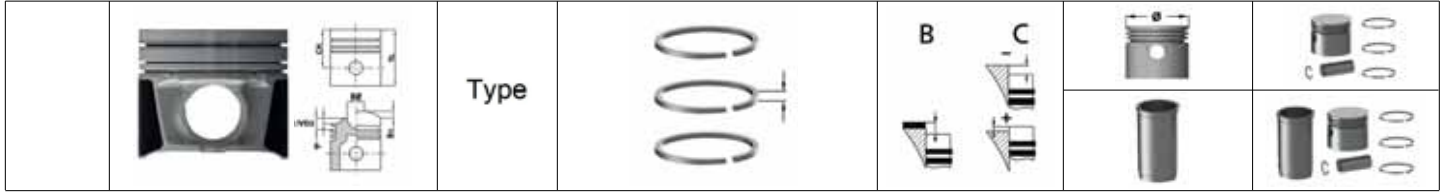


105,000							
1104C-44 Euro2			D	2003	4 Cyl	4400cc	50-64kW (67-84ps)
1104C-44T Euro2			D	2003	4 Cyl	4400cc	60-85kW (82-116ps)
1104C-44TA Euro2			D	2003	4 Cyl	4400cc	85-99kW (115-135ps)

<p>11-02469-000 CH 70,100 B- 22,700 BØ 56,700 TL 108,000</p> <p>39,70x78,00</p>	AP	<p>91-09465-000</p> <p>1 3,500 MoP</p> <p>2 2,500 P</p> <p>3 3,500 CrP</p>			<p>Ø 105,000</p> <p>Ø 105,500</p> <p>Ø 106,000</p>	<p>31-04469-000</p> <p>31-04469-050</p> <p>31-04469-100</p>
	DF				51-35833-000	71-08469-000
	DS				51-65836-000	
	DS +0,50				51-65836-050	

105,000							
1104D-44 Euro 3			D		4 Cyl	4400cc	54-56kW (73-75ps)

<p>11-02961-000 CH 70,116 B- 21,900 BØ 48,400 TL 108,050</p> <p>39,70x70,00</p>		<p>91-09467-000</p> <p>1 2,500 CR</p> <p>2 2,500 P</p> <p>3 3,500 CrP</p>			<p>Ø 105,000</p>	<p>31-04961-000</p>



105,000							
1104D-44T Euro 3		D	4 Cyl	4400cc	56-75kW	(74-102ps)	
1106C-E66TAG2 Euro 2		D	6 Cyl	6600cc	117-131kW	(159-178ps)	
1106C-E66TAG3 Euro 2		D	6 Cyl	6600cc	130-144kW	(177-196ps)	
1106C-E66TAG4 Euro 2		D	6 Cyl	6600cc	157-173kW	(213-235ps)	
1106D-66TA Euro 3		D	6 Cyl	6600cc	82-130kW	(111-177ps)	
1106D-E66TAG4 Euro 3		D	6 Cyl	6600cc	174-193kW	(237-262ps)	

<p>11-02962-000 CH 70,116 B- 15,700 BØ 76,600 TL 108,050</p> <p>39,70x86,00</p>	<p>AP</p> <p>YS</p>	<p>91-09771-000</p> <p>1 3,000 CK</p> <p>2 2,500 P</p> <p>3 3,000 CR</p>		<p>Ø 105,000</p>	<p>31-04962-000</p>


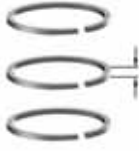
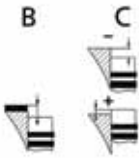

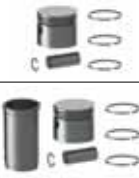



105,000							
1104D-E44T Euro 3		D	4 Cyl	4400cc	55-75kW	(75-102ps)	
1104D-E44TA Euro 3		D	4 Cyl	4400cc	75-106kW	(102-144ps)	
1106D-E66TA Euro 3		D	6 Cyl	6600cc	90-205kW	(122-279ps)	

<p>11-02963-000 CH 70,116 B- 15,700 BØ 76,600 TL 108,050</p> <p>39,70x86,00</p>	<p>AP</p>	<p>91-09771-000</p> <p>1 3,000 CK</p> <p>2 2,500 P</p> <p>3 3,000 CR</p>		<p>Ø 105,000</p>	<p>31-04963-000</p>

Claas ve Perkins ile Ortak Motor








105,000							
1104D-44TA Euro 3		D	4 Cyl	4400cc	74-83kW	(100-111ps)	

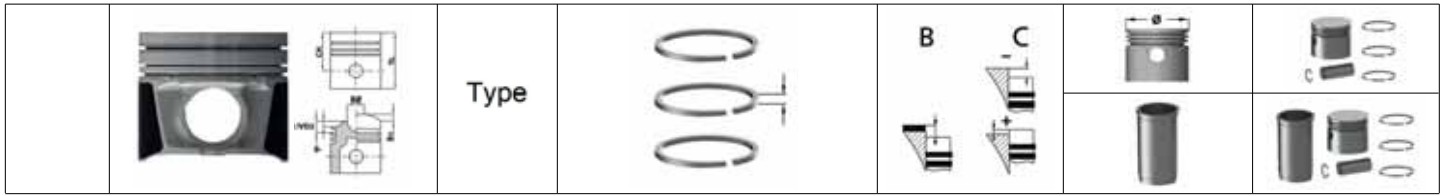
<p>11-02964-000 CH 70,116 B- 22,940 BØ 50,000 TL 108,050</p> <p>39,70x78,00</p>	<p>AP</p>	<p>91-09771-000</p> <p>1 3,000 CK</p> <p>2 2,500 P</p> <p>3 3,000 CR</p>		<p>Ø 105,000</p>	<p>31-04964-000</p>

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

114,300

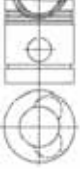





A4.318 D 4 Cyl 5215cc 72kW (98ps)

	<p>11-01835-000 CH 70,750 B- 24,000 BØ 66,000 TL 124,800</p>  <p>36,51x99,00</p>		<p>91-09835-000</p> <p>1 2,385  CR</p> <p>2 2,385  P</p> <p>3 2,385  P</p> <p>4 6,350  CR</p>		<p>Ø 114,300</p>	<p>31-03835-000</p>
 <p>K=117,88 L=230,80 H=2,71 D=121,13</p>	<p>DF</p>				<p>51-35856-000</p>	<p>71-07835-000</p>









87,310

PH1 / PH1W	D	1 Cyl	659cc	kW	(ps)
PH2 / PH2W	D	2 Cyl	1318cc	kW	(ps)

	<p>11-01268-000 CH 63,600 VD1 0,610 B- 25,400 BØ 50,800 TL 106,000</p>  30,00x74,50	<p>91-09268-000 1 2,385  CR 2 2,385  P 3 2,385  P 4 4,747  P</p>	<p>Ø 87,310 Ø 87,570 Ø 87,820 Ø 88,070 Ø 88,320</p>	<p>31-03268-000 31-03268-025 31-03268-050 31-03268-075 31-03268-100</p>

96,960

Aircooled Engine	D	1 Cyl	cc
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	<p>11-01269-000 CH 63,600 VD1 0,600 B- 23,000 BØ 39,800 TL 106,000</p>  30,00x84,45	<p>91-09269-000 1 2,385  CR 2 2,385  P 3 2,385  P 4 4,747  CR</p>	<p>Ø 96,960</p>	<p>31-03269-000</p>

		Type				
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98,480

4236	D	1979	4 Cyl
A4.236	D		4 Cyl

	11-01848-000 CH 70,050 B- 20,150 BØ 61,000 TL 120,850 34,93x84,10	AP CP	91-09867-000 1 2,385 CrP 2 2,385 P 3 4,747 CR	+0,28/+0,48	Ø 98,480	31-03848-000
	K=104,21 L=227,00 H=3,83 D=107,38	DF			51-35842-000	71-07858-000
	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07848-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	

		Type					
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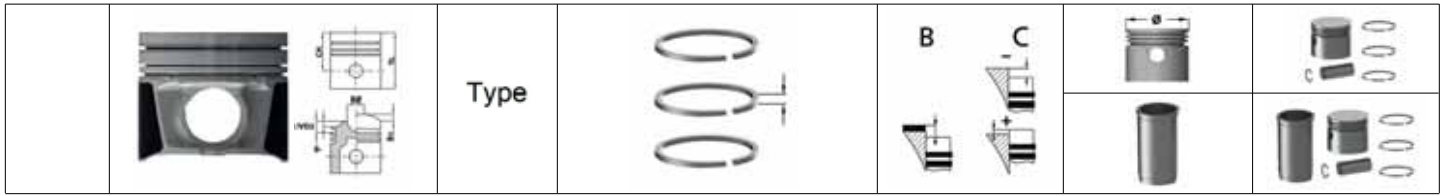
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50				51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS				51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50				51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00				51-65841-100	
	K=103,28 L=229,00 H+F= +	DS				51-65845-000	

98,480							
4236		D	1979	4 Cyl	3864cc	48-60kW	(59-80ps)
A4.236		D		4 Cyl	3864cc	37-65kW	(50-89ps)

	11-01863-000 CH 70,250 B- 20,280 BØ 60,500 TL 120,900		91-09863-000 1 2,385 CrP 2 2,385 P 3 2,385 P 4 6,350 CrP 5 6,350 P			Ø 98,480	31-03863-000
	34,93x84,10	Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RVI) ve Volvo ile Ortak Motor					

	K=104,21 L=227,00 H=3,83 D=107,38	DF				51-35842-000	71-07864-000
	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF				51-35844-000	71-07863-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00				51-35844-100	

		Type				
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	



98,480

T4.38 D 1986 1990 4 Cyl 3864cc 58-72kW (79-98ps)

	<p>11-01868-000 CH 70,250 B- 19,950 BØ 61,000 TL 108,250</p> <p>38,10x82,50</p>	<p>AP</p> <p>CP</p>	<p>91-09868-000</p> <p>1 3,160 CrP</p> <p>2 2,385 P</p> <p>3 4,747 CrP</p>		<p>Ø 98,480</p>	<p>31-03868-000</p>
<p>Massey-Ferguson, Perkins ve Renault Trucks (RVI) ile Ortak Motor</p>						
	<p>K=104,21 L=227,00 H=3,83 D=107,38</p>	<p>DF</p>			<p>51-35842-000</p>	<p>71-07868-000</p>
	<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p>			<p>51-65840-000</p>	
	<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p> <p>+0,25</p>			<p>51-65840-025</p>	
	<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	<p>DS</p> <p>+0,50</p>			<p>51-65840-050</p>	
	<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	<p>DS</p> <p>+1,00</p>			<p>51-65840-100</p>	
	<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	<p>DS</p> <p>+1,50</p>			<p>51-65840-150</p>	
	<p>K=105,80 L=227,30 H+F=5,00+0,90 D=109,00</p>	<p>DS</p> <p>+2,50</p>			<p>51-65840-250</p>	
	<p>K=104,26 L=227,00 H=3,81 D=107,38</p>	<p>DS</p>			<p>51-65841-000</p>	

		Type					
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	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50				51-65841-050	
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	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00				51-65841-100	
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100,000
T4.40 D 1990 1992 6 Cyl 5984cc 82-88kW (112-120ps)

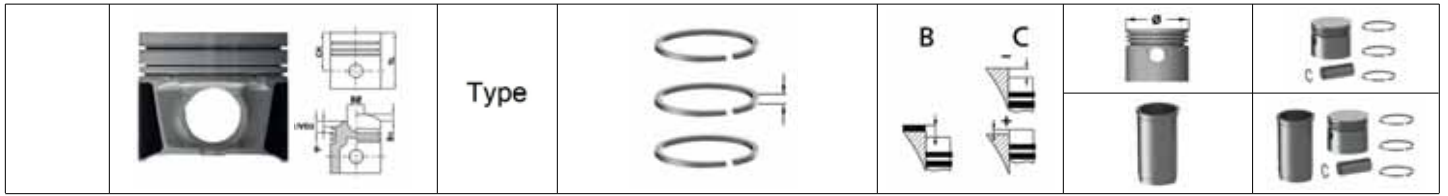
	11-01861-000 CH 70,300 B- 21,750 BØ 52,800 TL 108,230 39,70x78,00	AP	91-09855-000 1 3,500 MoP 2 2,500 P 3 4,000 CrP	+0,382/+0,504	Ø 100,000	31-03861-000
Perkins ve Renault Trucks (RVI) ile Ortak Motor						

	K=104,21 L=227,00 H+F=3,86+1,00 D=107,45	DF				51-35828-000	71-07861-000
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	K=104,23 L=227,00 H+F=3,86+1,00 D=107,45	DF +0,02				51-35828-002	
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	K=104,28 L=227,00 H+F=3,85+0,90 D=107,45	DS				51-65858-000	
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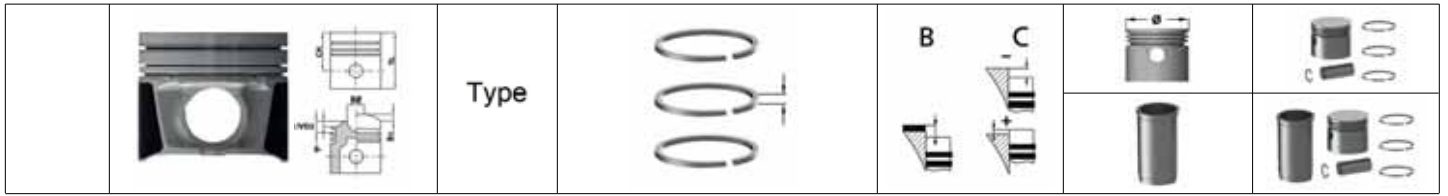
	K=104,78 L=227,00 H+F=3,85+0,90 D=107,45	DS +0,50				51-65858-050	
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100,000

T4.40 D 1990 1992 4 Cyl 3990cc 82-88kW (112-120ps)

	<p>11-02466-000 CH 70,266 B- 21,750 BØ 52,800 TL 108,230</p> <p>39,70x78,00</p>	<p>AP</p>	<p>91-09466-000 1 3,500 MoP 2 2,500 CR 3 3,500 CR</p>		<p>Ø 100,000</p>	<p>31-04466-000</p>
<p>Massey-Ferguson, Perkins ve Renault Trucks (RVI) ile Ortak Motor</p>						
	<p>K=104,21 L=226,45 H=3,85 D=107,45</p>	<p>DF</p>			<p>51-35848-000</p>	<p>71-08466-000</p>
	<p>K=104,26 L=227,50 H+F=3,81+1,00 D=107,35</p>	<p>DF</p>			<p>51-35849-000</p>	<p>71-08468-000</p>
	<p>K=104,26 L=227,50 H+F=3,81+1,00 D=107,35</p>	<p>DS</p>			<p>51-65839-000</p>	
	<p>K=104,76 L=227,50 H+F=3,81+1,00 D=107,35</p>	<p>DS +0,50</p>			<p>51-65839-050</p>	
	<p>K=104,25 L=226,45 H=3,85 D=107,45</p>	<p>DS</p>			<p>51-65847-000</p>	
	<p>K=104,50 L=226,45 H=3,85 D=107,45</p>	<p>DS +0,25</p>			<p>51-65847-025</p>	









102,000
MIDR 06.02.26D Euro1 D 1989 2000 6 Cyl 6177cc 159-166kW (216-226ps)

  	11-01314-000 CH 71,180 VD1 0,800 VD2 2,060 B- 20,790 BØ 58,800 TL 108,180 42,00x84,00	AP	91-09317-000 1 3,500  CR 2 2,500  CrP 3 4,000  CrP		Ø 102,000	31-03314-000
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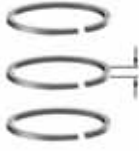
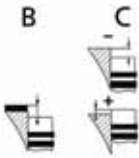



	K=114,00 L=218,00 H+F=8,00+0,80 D=122,50	WF		O-Ring/Seal 55-50804-000 2 FPM 104,20x3,00	51-05209-000 52-05209-000	71-07313-000 72-07313-000
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102,000
MIDR 06.02.26 D 2000 6 Cyl 6177cc 159kW (216ps)

MIDR 06.02.26 A/4 / (B/4) / (U/4) / (V/4) / (V/41) / (V) / (W/4) / (Y41) Euro2	D 1992	6 Cyl 6177cc	100-184kW (136-250ps)
MIDR 06.02.26D / S / U / W / X Euro1	D 1989 2000	6 Cyl 6177cc	110-166kW (150-226ps)
MIDR 06.02.26DU	D 1991	6 Cyl 6177cc	110-166kW (150-226ps)
MIDR 06.02.26H	D 1990 1993	6 Cyl 6177cc	144kW (196ps)
MIDR 06.02.26Q	D 1990 1993	6 Cyl 6177cc	137kW (186ps)
MIDR 06.02.26Y	D 2000	6 Cyl 6177cc	184kW (250ps)






  	11-01317-000 CH 70,700 VD1 0,800 B- 21,800 BØ 60,000 TL 107,700 42,00x84,00	AP	91-09317-000 1 3,500  CR 2 2,500  CrP 3 4,000  CrP		Ø 102,000	31-03317-000
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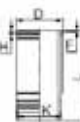

	K=114,00 L=218,00 H+F=8,00+0,80 D=122,50	WF		O-Ring/Seal 55-50804-000 2 FPM 104,20x3,00	51-05209-000 52-05209-000	71-07317-000 72-07317-000
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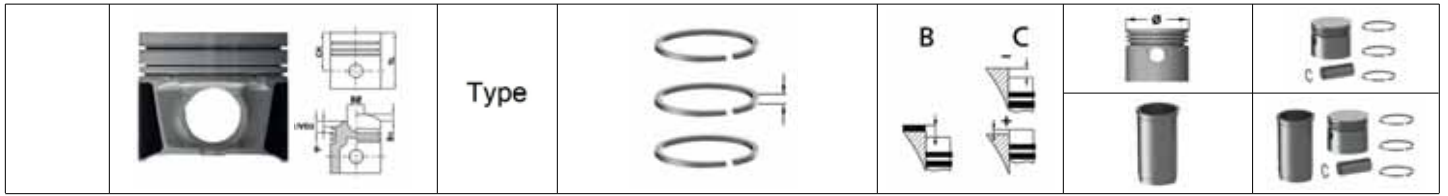
	Type		B	C		
						

102,000

720	D	1979	1991	4 Cyl	3596cc	65-67kW	(88-91ps)
720.12	D	1976	1986	4 Cyl	3596cc	72kW	(98ps)

	<p>11-01942-000 CH 75,580 B- 37,950 BØ 37,700 TL 120,600</p>  <p>36,00x86,00</p>	AP	<p>91-09942-000 1 3,000  MoP 2 2,500  P 3 5,000  CrP</p>		Ø 102,000	31-03942-000

	<p>K=114,00 L=234,50 H+F=8,00+0,80 D=120,90</p>	WF			51-05942-000	71-07942-000
	<p>K=114,00 L=218,00 H+F=8,00+0,70 D=120,70</p>	WF-PH			51-05948-000	71-07076-000
	<p>K=114,00 L=220,50 H+F=8,00+0,70 D=120,70</p>	WF-PH			51-05949-000	71-07944-000



102,000

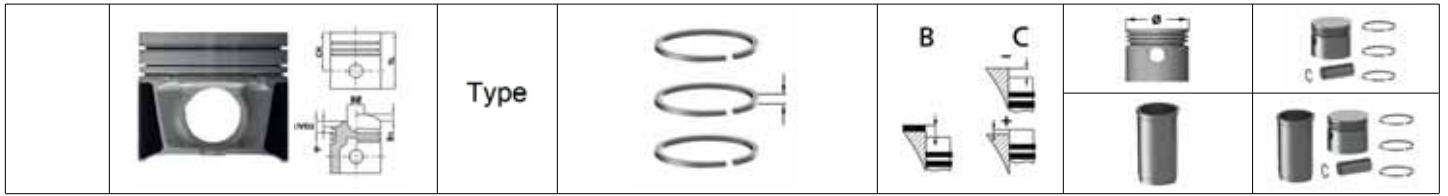
797	D	1980	1991	6 Cyl	5496cc	89-100kW	(121-136ps)
797-10	D	1979	1984	6 Cyl	5496cc	98kW	(133ps)
797-21	D	1985	1990	6 Cyl	5496cc	76kW	(103ps)
797-23	D	1983	1991	6 Cyl	5496cc	96kW	(130ps)
797-26	D	1975	1990	6 Cyl	5496cc	98kW	(133ps)
797.20	D	1983	1991	6 Cyl	5496cc	89-113kW	(121-154ps)

<p>11-01943-000 CH 77,820 B- 38,200 BØ 38,400 TL 123,820</p> <p>36,00x86,00</p>	AP	<p>91-09942-000</p> <p>1 3,000 MoP 2 2,500 P 3 5,000 CrP</p>		Ø 102,000	31-03943-000
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Man, Renault, Renault Trucks (RVI) ve Saviem ile Ortak Motor

<p>K=114,00 L=235,50 H+F=8,00+0,80 D=121,00</p>	WF			51-05943-000	71-07943-000
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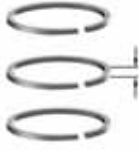
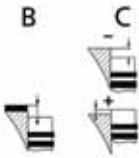





<p>K=114,00 L=234,00 H+F=8,00+0,80 D=122,50</p>	WF			51-05944-000	71-07325-000
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105,000

D226-3	D	1968	3 Cyl	3117cc	35-44kW	(48-60ps)
D226-4	D	1968	4 Cyl	4154cc	44-64kW	(60-87ps)
D226-6	D	1969	6 Cyl	6234cc	74-96kW	(101-131ps)






<p>11-01676-000 CH 59,800 B- 19,800 BØ 62,000 TL 112,800</p> <p>32,00x82,00</p>	CP	<p>91-09676-000</p> <p>1 3,000 CR 2 2,000 P 3 2,000 P 4 4,000 CR</p>	-0,28/-0,60	Ø 105,000	31-03676-000
Mwm ve Renault-Trucks (RVI) ile Ortak Motor					
<p>K=115,00 L=213,00 H+F=8,07+1,00 D=123,00</p>	WF		O-Ring/Seal 55-50917-000 2 FPM 112,00x1,50 2 FPM 115,00x4,00	51-05678-000 52-05678-000	71-07676-000 72-07676-000
<p>K=108,05 L=214,00 H=6,05 D=111,80</p>	DF			51-35676-000	71-07677-000
<p>K=108,55 L=214,00 H=6,05 D=112,30</p>	DF +0,50			51-35676-050	
<p>K=108,05 L=214,00 H=6,05 D=111,80</p>	DS			51-65677-000	
<p>K=108,50 L=214,00 H=6,50 D=111,80</p>	DS +0,50			51-65677-050	

	Type				
					

108,000

DXi 5 160 / 190 / 215 / 220 / 360 Euro 4 D 4 Cyl 4761cc 118-265kW (160-360ps)

DXi 7 240 / 280 / 320 / 360 Euro 4 D 6 Cyl 7146cc 117-265kW (240-360ps)






	11-02036-000 CH 70,900 B- 19,600 BØ 64,500 TL 107,800	AP YS	91-09045-000 1 3,000  CK 2 2,000  P 3 3,500  CR		Ø 108,000	31-04036-000
	45,00x86,00					
Deutz, Renault Trucks (RVI) ve Volvo ile Ortak Motor						

	K=120,00 L=228,00 H=8,07 D=131,70	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06065-000 52-06065-000	71-08031-000 72-08031-000
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120,000

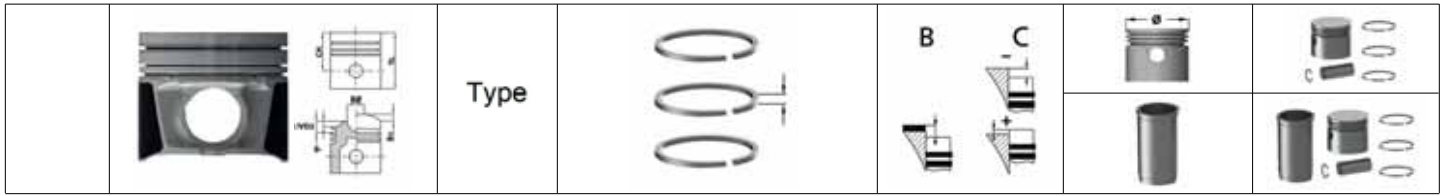
MIDR 06.20.45 D 1985 6 Cyl 9839cc 188-249kW (298-338ps)

MIDS 06.20.45 D 1984 1993 6 Cyl 9839cc 152-169kW (207-230ps)

	11-01315-000 CH 83,800 VD1 0,800 VD2 1,100 B- 24,080 BØ 74,000 TL 134,800	AP	91-09321-000 1 3,500  CR 2 3,000  P 3 4,000  CR		Ø 120,000	31-03315-000
	50,00x97,40					

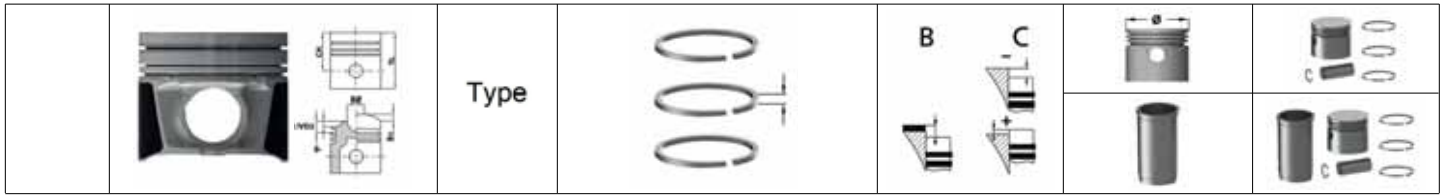
	K=135,00 L=260,50 H+F=9,28+0,80 D=147,00	WF-PH		O-Ring/Seal 55-50806-000 2 FPM 128,00x2,00 3 FPM 124,00x3,00	51-05210-000 52-05210-000	71-07314-000 72-07314-000
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	K=135,00 L=260,50 H+F=9,38+0,80 D=147,30	WF-PH		O-Ring/Seal 55-50807-000 2 FPM 128,00x2,00 3 FPM 123,00x4,00	51-05215-000 52-05215-000	71-07315-000 72-07315-000
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120,000						
MIDR 06.20.30 A	D	1980	6 Cyl	9834cc	190kW	(258ps)
MIDR 06.20.45 A/2	D	1982	6 Cyl	9834cc	202-206kW	(275-280ps)
MIHR 06.20.45 A41 Euro 2	D	1996	6 Cyl	9834cc	185kW	(252ps)
MIPR 06.20.45	D	1995	6 Cyl	9834cc	222-265kW	(302-360ps)
MIPR 06.20.45 A	D	1989	1992	6 Cyl	9834cc	210kW (286ps)
MIPR 06.20.45 B3 Euro 1	D	1992	1995	6 Cyl	9834cc	186-222kW (252-302ps)
MIPR 06.20.45 C3 Euro 1	D	1992	1995	6 Cyl	9834cc	152kW (207ps)
MIPR 06.20.45 E	D		6 Cyl	9834cc	222-265kW	(302-360ps)

<p>11-01321-000 CH 83,800 VD1 0,800 VD2 1,100 B- 23,000 BØ 73,800 TL 134,800</p> <p>50,00x97,40</p>	AP	<p>91-09321-000</p> <p>1 3,500 CR 2 3,000 P 3 4,000 CR</p>		Ø 120,000	31-03321-000
<p>K=135,00 L=257,00 H+F=9,35+0,75 D=147,50</p>	WF		<p>O-Ring/Seal 55-50802-000 2 FPM 129,00x2,00 1 FPM 134,00x5,70 1 FPM 134,00x5,70</p>	<p>51-05214-000 52-05214-000</p>	<p>71-07318-000 72-07318-000</p>
<p>K=135,00 L=260,50 H+F=9,38+0,80 D=147,30</p>	WF-PH		<p>O-Ring/Seal 55-50807-000 2 FPM 128,00x2,00 3 FPM 123,00x4,00</p>	<p>51-05215-000 52-05215-000</p>	<p>71-07321-000 72-07321-000</p>



120,000						
M 420 / 520	D	4 Cyl	7917cc	88-110kW	(120-250ps)	
M 620 23 / P / T / Z3	D	4 Cyl	9500cc	132kW	(180ps)	
MDU 24 M / 25 M / 44 M / 44 M3 / 45 M / 46 M3 / MK	D	4 Cyl	7917cc	111kW	(151ps)	
MDX 16 M / 24 M / 26 M / 44 M / 44 M3 / 46 M / 48 M	D	4 Cyl	6328cc	88kW	(120ps)	
MDZ 23	D	4 Cyl	7917cc	111kW	(151ps)	

<p>11-01330-000 CH 90,200 B- 44,800 BØ 48,000 TL 147,000</p> <p>45,00x100,00</p>	AP	<p>91-09325-000</p> <p>1 3,250 CR 2 3,000 P 3 3,000 P 4 6,000 CR</p>		Ø 120,000	31-03330-000
<p>K=135,00 L=260,50 H+F=9,38+0,80 D=147,30</p>	WF-PH		<p>O-Ring/Seal 55-50807-000 2 FPM 128,00x2,00 3 FPM 123,00x4,00</p>	<p>51-05215-000 52-05215-000</p>	<p>71-07331-000 72-07331-000</p>
<p>K=133,00 L=275,00 H+F=10,05+0,90 D=149,00</p>	WF		<p>O-Ring/Seal 55-50801-000 1 NBR 128,00x4,00</p>	<p>51-05220-000 52-05220-000</p>	<p>71-07330-000 72-07330-000</p>

	Type			
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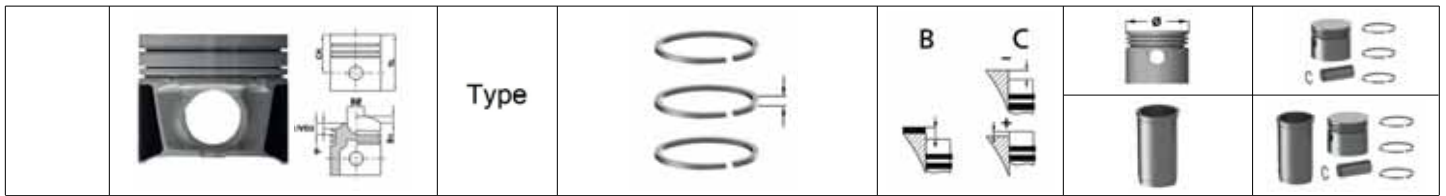
120,000

MID 06.20.30	D		6 Cyl	8822cc	141kW	(192ps)
MID 06.20.30 G	D	1978	1991	6 Cyl	8822cc	141kW (192ps)
MID 620.30	D	1975	1987	6 Cyl	8822cc	135-158kW (184-215ps)
MIP 06.20.30	D		6 Cyl	8822cc	135-158kW	(184-215ps)

 11-02905-000 CH 74,450 B- 24,680 BØ 67,900 TL 130,950 42,00x100,00	AP	91-09905-000 1 3,250 CR 2 3,000 CR 3 4,000 CR		Ø 120,000	31-04905-000
 K=135,00 L=260,50 H+F=9,28+0,80 D=147,00	WF-PH		O-Ring/Seal 55-50806-000 2 FPM 128,00x2,00 3 FPM 124,00x3,00	51-05210-000 52-05210-000	71-08905-000 72-08905-000
 K=135,00 L=241,00 H+F=9,28+0,80 D=147,30	WF-PH		O-Ring/Seal 55-50806-000 2 FPM 128,00x2,00 3 FPM 124,00x3,00	51-05211-000 52-05211-000	71-07133-000 72-07133-000

120,000

MIDS 06.20.30	D		6 Cyl	8820cc	162kW	(220ps)
 11-02906-000 CH 94,300 VD1 1,000 VD2 1,300 B- 23,130 BØ 68,000 TL 150,800 50,00x97,00	AP	91-09905-000 1 3,250 CR 2 3,000 CR 3 4,000 CR		Ø 120,000	31-04906-000	
 K=135,00 L=260,50 H+F=9,28+0,80 D=147,00	WF-PH		O-Ring/Seal 55-50806-000 2 FPM 128,00x2,00 3 FPM 124,00x3,00	51-05210-000 52-05210-000	71-08912-000 72-08912-000	
 K=135,00 L=260,50 H+F=9,38+0,80 D=147,30	WF-PH		O-Ring/Seal 55-50807-000 2 FPM 128,00x2,00 3 FPM 123,00x4,00	51-05215-000 52-05215-000	71-08906-000 72-08906-000	

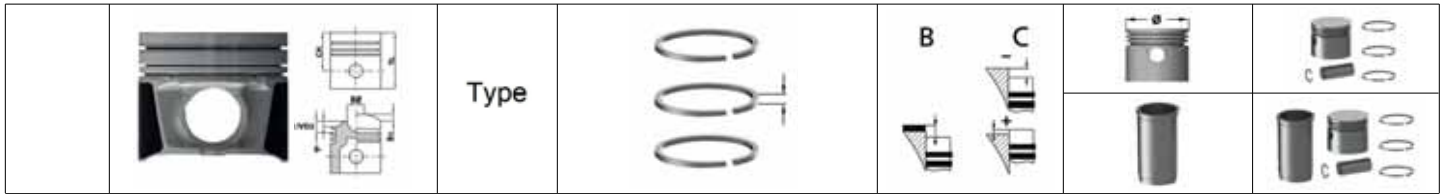


120,000									
MIDS 06.20.45 A2			D	1987	1996	6 Cyl	9939cc	202kW	(275ps)
MIPS 06.20.45			D	1984	1992	6 Cyl	9939cc	137kW	(186ps)
MIPS 06.20.45 A			D	1984	1992	6 Cyl	9939cc	129-144kW	(175-196ps)
MIPS 06.20.45 B			D	1984	1994	6 Cyl	9939cc	176kW	(239ps)
MIPS 06.20.45 C			D	1984	1992	6 Cyl	9939cc	129-144kW	(175-196ps)

<p>11-02939-000 CH 83,800 VD1 0,800 B- 23,340 BØ 74,000 TL 134,800</p> <p>50,00x97,40</p>	AP	<p>91-09321-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 4,000 CR</p>		Ø 120,000	31-04939-000
<p>K=135,00 L=260,50 H+F=9,28+0,80 D=147,00</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50806-000</p> <p>2 FPM 128,00x2,00 3 FPM 124,00x3,00</p>	<p>51-05210-000</p> <p>52-05210-000</p>	<p>71-08946-000</p> <p>72-08946-000</p>
<p>K=135,00 L=257,00 H+F=9,35+0,75 D=147,50</p>	WF		<p>O-Ring/Seal</p> <p>55-50802-000</p> <p>2 FPM 129,00x2,00 1 FPM 134,00x5,70 1 FPM 134,00x5,70</p>	<p>51-05214-000</p> <p>52-05214-000</p>	<p>71-08937-000</p> <p>72-08937-000</p>
<p>K=135,00 L=260,50 H+F=9,38+0,80 D=147,30</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50807-000</p> <p>2 FPM 128,00x2,00 3 FPM 123,00x4,00</p>	<p>51-05215-000</p> <p>52-05215-000</p>	<p>71-08939-000</p> <p>72-08939-000</p>

120,000									
MIDR 06			D			6 Cyl	9839cc	202-265kW	(275-360ps)

<p>11-02942-000 CH 83,800 VD1 0,800 B- 26,400 BØ 85,000 TL 134,800</p> <p>50,00x97,40</p>	AP	<p>91-09321-000</p> <p>1 3,500 CR</p> <p>2 3,000 P</p> <p>3 4,000 CR</p>		Ø 120,000	31-04942-000
<p>K=135,00 L=257,00 H+F=9,35+0,75 D=147,50</p>	WF		<p>O-Ring/Seal</p> <p>55-50802-000</p> <p>2 FPM 129,00x2,00 1 FPM 134,00x5,70 1 FPM 134,00x5,70</p>	<p>51-05214-000</p> <p>52-05214-000</p>	<p>71-08945-000</p> <p>72-08945-000</p>
<p>K=135,00 L=260,50 H+F=9,38+0,80 D=147,30</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50807-000</p> <p>2 FPM 128,00x2,00 3 FPM 123,00x4,00</p>	<p>51-05215-000</p> <p>52-05215-000</p>	<p>71-08942-000</p> <p>72-08942-000</p>



120,000


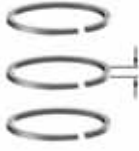
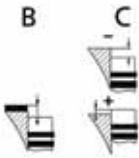

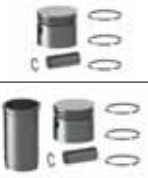
MIDR 06.20.45 B/3 Euro 1	D	1991	1996	6 Cyl	9840cc	195kW	(265ps)
MIDR 06.20.45 D/3 Euro 1	D	1990	1998	6 Cyl	9840cc	222kW	(302ps)
MIDR 06.20.45 D/41 Euro 2	D	1996	2002	6 Cyl	9840cc	219kW	(298ps)
MIDR 06.20.45 DD	D	1990	1996	6 Cyl	9840cc	222kW	(302ps)
MIDR 06.20.45 E Euro 1	D	1988	1998	6 Cyl	9840cc	236-249kW	(321-339ps)
MIDR 06.20.45 E/2 Euro 1	D	1990	1993	6 Cyl	9840cc	249kW	(339ps)
MIDR 06.20.45 E/41 Euro 2	D	1996	2002	6 Cyl	9840cc	249kW	(338ps)
MIDR 06.20.45 H	D	1988	1993	6 Cyl	9840cc	240kW	(326ps)
MIDR 06.20.45 M41 Euro 2	D	1996		6 Cyl	9840cc	250kW	(340ps)
MIDS 06.20.45 B	D	1982	1993	6 Cyl	9840cc	192-202kW	(261-275ps)

<p>11-02943-000 CH 83,800 VD1 0,800 B- 22,500 BØ 73,800 TL 134,800</p> <p>50,00x97,40</p>	AP	<p>91-09321-000</p> <p>1 3,500 CR 2 3,000 P 3 4,000 CR</p>		Ø 120,000	31-04943-000
<p>K=135,00 L=257,00 H+F=9,35+0,75 D=147,50</p>	WF		<p>O-Ring/Seal 55-50802-000 2 FPM 129,00x2,00 1 FPM 134,00x5,70 1 FPM 134,00x5,70</p>	51-05214-000 52-05214-000	71-07127-000 72-07127-000
<p>K=135,00 L=260,50 H+F=9,38+0,80 D=147,30</p>	WF-PH		<p>O-Ring/Seal 55-50807-000 2 FPM 128,00x2,00 3 FPM 123,00x4,00</p>	51-05215-000 52-05215-000	71-08943-000 72-08943-000
<p>K=134,90 L=260,50 H+F=9,35+0,70 D=147,20</p>	WF		<p>O-Ring/Seal 55-50803-000 2 FPM 128,00x2,00 2 FPM 123,00x4,00 1 FPM 125,00x133,20x6,65</p>	51-05216-000 52-05216-000	71-08943-000 72-08943-000

123,000






MIDR 06.23.56A / 41 Euro2	D	1996		6 Cyl	11160cc	280kW	(381ps)
MIDR 06.23.56B / 41 Euro2	D	1996	2002	6 Cyl	11160cc	288kW	(392ps)

<p>11-01316-000 CH 78,300 VD1 0,900 VD2 1,200 B- 24,100 BØ 75,000 TL 120,300</p> <p>50,00x97,40</p>	AP	<p>91-09316-000</p> <p>1 3,500 CR 2 3,000 P 3 4,000 CR</p>		Ø 123,000	31-03316-000
<p>K=134,92 L=257,00 H+F=9,35+0,70 D=147,50</p>	WF		<p>O-Ring/Seal 55-50802-000 2 FPM 129,00x2,00 1 FPM 134,00x5,70 1 FPM 134,00x5,70</p>	51-05227-000 52-05227-000	71-07316-000 72-07316-000

	Type				
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123,000

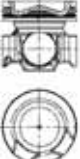




MIDR 06.23.56 A/41 Euro 2	D	1996	6 Cyl	11160cc	280kW	(381ps)
MIDR 06.23.56 B/41 Euro 2	D	1996	2002	6 Cyl	11160cc	288kW (392ps)

	11-01319-000 CH 78,300 VD1 0,900 VD2 1,200 B- 24,100 BØ 75,000 TL 120,300	AP PDB	91-09316-000 1 3,500  CR 2 3,000  P 3 4,000  CR	+0,30/+0,35	Ø 123,000	31-03319-000
	50,00x97,40					

	K=134,92 L=257,00 H+F=9,35+0,70 D=147,50	WF		O-Ring/Seal 55-50802-000 2 FPM 129,00x2,00 1 FPM 134,00x5,70 1 FPM 134,00x5,70	51-05227-000 52-05227-000	71-07139-000 72-07139-000
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123,010

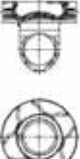




DXi 11 Euro3-4	D	2010	6 Cyl	10800cc	243-332kW	(330-450ps)
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	11-02637-000 CH 78,400 VD1 1,000 B- 16,900 BØ 83,600 TL 114,400	MONOTHERM FRICTION STEEL PISTON	91-09182-000 1 3,500  PvD St 2 2,500  NT St 3 3,000  NT St		Ø 123,010	31-04637-000
	54,00x73,00					
Renault Truck (RVI) ve Volvo ile Ortak Motor						

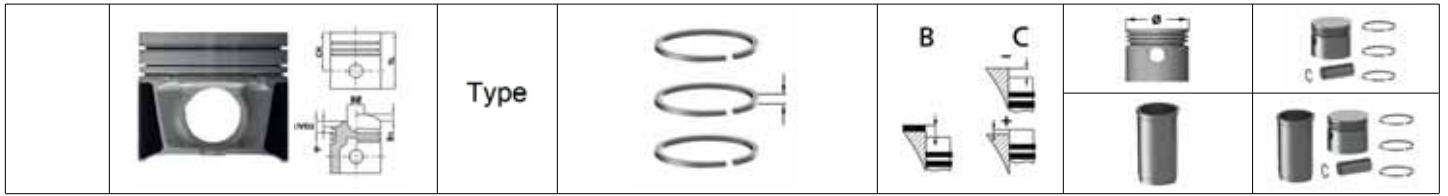
	K=139,00 L=249,50 H+F=11,20+0,85 D=149,00	WF			51-05228-000	71-07178-000
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123,030

DCI 11 C.RAIL EURO 3	D	2002	6 Cyl	11100cc	303kW	(412ps)
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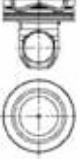




	11-02936-000 CH 78,480 VD1 1,600 B- 24,000 BØ 72,600 TL 114,480	STEEL PISTON	91-09316-000 1 3,500  CR 2 3,000  P 3 4,000  CR		Ø 123,030	31-04936-000
	50,00x102,20					

	K=134,92 L=257,00 H+F=9,35+0,70 D=147,30	WF		O-Ring/Seal 55-50802-000 2 FPM 129,00x2,00 1 FPM 134,00x5,70 1 FPM 134,00x5,70	51-05226-000 52-05226-000	71-08948-000 72-08948-000
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131,010

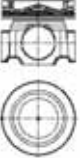




DXi12440 Euro3	D	2005	6 Cyl	12100cc	324kW	(440ps)
DXi12480 Euro3	D	2005	6 Cyl	12100cc	353kW	(480ps)

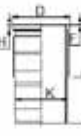
 <p>11-02085-000 CH 87,400 B- 17,140 BØ 89,000 TL 129,400</p> <p> 55,00x107,00</p>	STEEL PISTON	<p>91-09005-000</p> <p>1 4,000  Mo</p> <p>2 3,000  P</p> <p>3 4,000  CR</p>	+0,15/+0,65	Ø 131,010	31-04085-000	
Renault Trucks (RVI) ve Volvo ile Ortak Motor						

 <p>K=144,00 L=272,80 H+F=11,20+0,90 D=159,60</p>	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06064-000 52-06064-000	71-08552-000 72-08552-000
 <p>K=144,00 L=272,80 H+F=11,20+0,90 D=159,60</p>	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06083-000 52-06083-000	71-08550-000 72-08550-000

131,010






Dxi 13 / 13 460	D		6 Cyl	12800cc	338kW	(460ps)
Dxi 13 500	D		6 Cyl	12800cc	368kW	(500ps)

 <p>11-02656-000 CH 75,900 B- 18,100 BØ 89,000 TL 114,900</p> <p> 58,00x76,00</p>	MONOTHERM FRICTION STEEL PISTON	<p>91-09089-000</p> <p>1 3,500  NiPVD St</p> <p>2 2,500  NT St</p> <p>3 3,000  NT St</p>		Ø 131,010	31-04656-000	
Volvo ve Renault ile Ortak Motor						

 <p>K=144,00 L=262,00 H+F=11,20+0,90 D=159,60</p>	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06088-000 52-06088-000	71-07174-000 72-07174-000
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131,010

Dxi 13 440 / 480	D	2009	6 Cyl	12780cc	353kW	(480ps)
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 <p>11-02657-000 CH 75,900 B- 18,000 BØ 90,500 TL 114,900</p> <p> 58,00x76,00</p>	MONOTHERM FRICTION STEEL PISTON	<p>91-09089-000</p> <p>1 3,500  NiPVD St</p> <p>2 2,500  NT St</p> <p>3 3,000  NT St</p>		Ø 131,010	31-04657-000	
Volvo ve Renault ile Ortak Motor						

 <p>K=144,00 L=262,00 H+F=11,20+0,90 D=159,60</p>	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06088-000 52-06088-000	71-07173-000 72-07173-000
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		Type					
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135,030

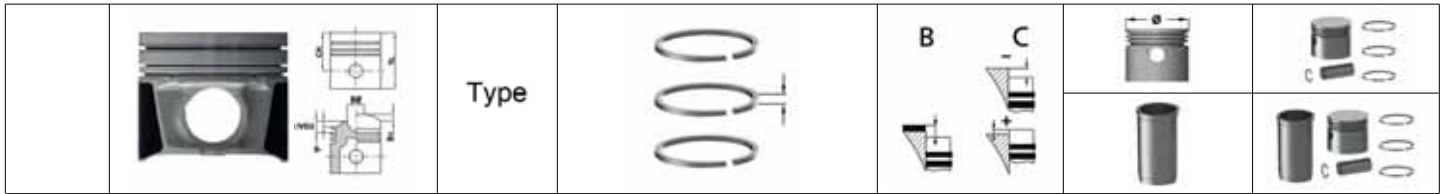
MIDR 06.35.40	D	1979	6 Cyl	12024cc	226kW	(307ps)
MIDR 06.35.40C	D	1980	1989	6 Cyl	12024cc	224-226kW (305-307ps)

	11-01320-000 CH 90,300 VD1 0,800 B- 29,120 BØ 78,000 TL 170,100 55,00x112,00	AP	91-09320-000 1 3,500 CrP 2 3,000 P 3 4,000 CrP		Ø 135,030	31-03320-000
	K=143,02 L=286,00 H=7,00 D=147,00	DF-PH			51-35320-000	71-07320-000
	K=143,02 L=286,00 H=7,35 D=148,90	DF-PH			51-35322-000	71-07106-000
	K=143,25 L=286,00 H=7,35 D=148,90	DF-PH +0,25			51-35322-025	

135,030

M 635.40	D	1964	6 Cyl	12024cc	177-224kW	(240-306ps)
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	11-01322-000 CH 90,300 B- 43,900 BØ 53,000 TL 170,200 50,00x115,40	AP	91-09322-000 1 3,500 CrP 2 3,000 P 3 3,000 P 4 6,000 CrP		Ø 135,030	31-03322-000
	K=143,02 L=286,00 H=7,00 D=147,00	DF-PH			51-35320-000	71-07107-000
	K=143,02 L=286,00 H=7,35 D=148,90	DF-PH			51-35322-000	71-07322-000
	K=143,25 L=286,00 H=7,35 D=148,90	DF-PH +0,25			51-35322-025	

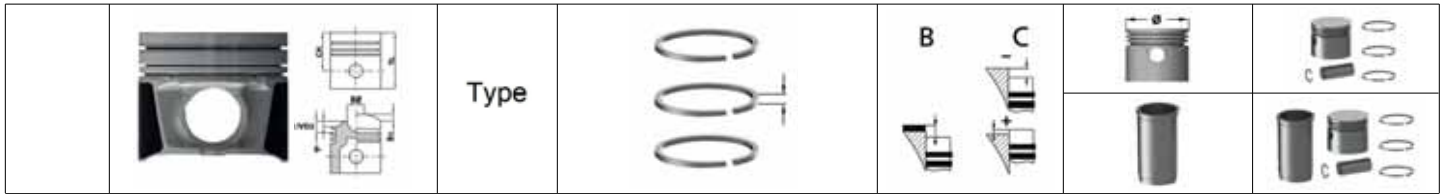


135,030					
MDS 635.40	D	6 Cyl	12024cc	191-224kW	(260-305ps)
MS 06.35 T	D	6 Cyl	12024cc	191-224kW	(260-305ps)

	11-01323-000 CH 90,300 VD1 0,800 B- 40,900 BØ 57,000 TL 170,200 50,00x115,40	AP	91-09322-000 1 3,500 CrP 2 3,000 P 3 3,000 P 4 6,000 CrP		Ø 135,030	31-03323-000										
								DF-PH		51-35320-000	71-07323-000					
													DF-PH		51-35322-000	71-07108-000

135,030					
MDS 635.40	D	6 Cyl	12024cc	206kW	(280ps)
MIDS 06.35.40	D	6 Cyl	12024cc	206kW	(280ps)

	11-01324-000 CH 90,300 VD1 0,800 B- 29,120 BØ 78,000 TL 170,200 55,00x112,00	AP	91-09324-000 1 3,500 CrP 2 3,000 P 3 6,000 CrP		Ø 135,030	31-03324-000										
								DF-PH		51-35320-000	71-07324-000					
													DF-PH		51-35322-000	71-07109-000



135,030									
MIDR 06.35.40 G	D	1986	1993	8 Cyl	12024cc	243-259kW	(330-352ps)		
MIDR 06.35.40 H	D	1986	1996	8 Cyl	12024cc	259-276kW	(352-375ps)		
MIDR 06.35.40 H2	D	1991	1992	8 Cyl	12024cc	275kW	(374ps)		

<p>11-01329-000 CH 90,300 VD1 0,800 B- 26,030 BØ 78,000 TL 170,200</p> <p> 55,00x112,00</p>	AP	<p>91-09941-000</p> <p>1 4,000 Mo</p> <p>2 3,000 CrP</p> <p>3 4,000 CR</p>			Ø 135,030	31-03329-000
<p>K=143,02 L=286,00 H=7,00 D=147,00</p>	DF-PH				51-35320-000	71-07329-000
<p>K=143,02 L=286,00 H=7,35 D=148,90</p>	DF-PH				51-35322-000	71-07111-000
<p>K=143,25 L=286,00 H=7,35 D=148,90</p>	DF-PH +0,25				51-35322-025	
<p>K=143,00 L=287,60 H+F=7,58+1,02 D=149,00</p>	DF-PH				51-35323-000	71-07112-000

135,030									
MIDR 06.35.40 J1 Euro 1	D	1991	1996	6 Cyl	12024cc	305-314kW	(415-427ps)		
MIDR 06.35.40 L1	D	1991	1996	6 Cyl	12024cc	283kW	(385ps)		

<p>11-02938-000 CH 90,400 VD1 0,700 B- 24,000 BØ 78,000 TL 149,400</p> <p> 55,00x108,00</p>	AP PDB	<p>91-09941-000</p> <p>1 4,000 Mo</p> <p>2 3,000 CrP</p> <p>3 4,000 CR</p>			Ø 135,030	31-04938-000
<p>K=143,00 L=287,60 H+F=7,58+1,02 D=149,00</p>	DF-PH				51-35323-000	71-08938-000

		Type					
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135,030


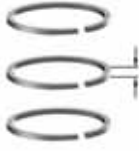
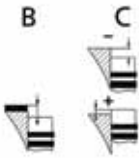

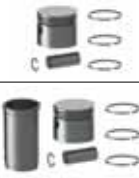
MIDR 06.35.40 J3 Euro 1	D	1992	1996	6 Cyl	12024cc	305kW	(415ps)
MIDR 06.35.40 L3 Euro 1	D			6 Cyl	12024cc	283kW	(385ps)
MIDR 06.35.40 M3 Euro 1	D	1992	1998	6 Cyl	12024cc	235kW	(320ps)
MIDR 06.35.40 N/3 Euro 1	D	1992	1998	6 Cyl	12024cc	283kW	(385ps)

 11-02941-000 CH 90,400 VD1 0,800 B- 21,800 BØ 78,000 TL 149,400 55,00x108,00	AP	91-09941-000 1 4,000 Mo 2 3,000 CrP 3 4,000 CR		Ø 135,030	31-04941-000
 K=143,00 L=287,60 H+F=7,58+1,02 D=149,00	DF-PH			51-35323-000	71-08941-000

135,030

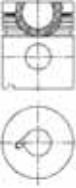





MIDR 06.35.40 J3 Euro 1	D	1992	1996	6 Cyl	12024cc	305kW	(415ps)
MIDR 06.35.40 L3 Euro 1	D			6 Cyl	12024cc	283kW	(385ps)
MIDR 06.35.40 M3 Euro 1	D	1992	1998	6 Cyl	12024cc	235kW	(320ps)
MIDR 06.35.40 N/3 Euro 1	D	1992	1998	6 Cyl	12024cc	283kW	(385ps)

 11-02944-000 CH 90,400 VD1 0,800 B- 21,800 BØ 78,000 TL 149,400 55,00x108,00	AP	91-09941-000 1 4,000 Mo 2 3,000 CrP 3 4,000 CR		Ø 135,030	31-04944-000
 K=143,00 L=287,60 H+F=7,58+1,02 D=149,00	DF-PH			51-35323-000	71-08944-000

	Type				
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100,000

597	D	1967	6 Cyl	5278cc	92kW	(126ps)
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


	11-01946-000 CH 77,800 B- 36,650 BØ 36,000 TL 131,800	AP	91-09512-000 1 3,000  CrP 2 2,500  P 3 2,500  P 4 5,000  CrP		Ø 100,000	31-03946-000
	36,00x86,00					

	K=114,00 L=234,50 H+F=8,00+0,80 D=120,90	WF			51-05941-000	71-07941-000
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102,000

720.08	D	1972	1986	4 Cyl	3596cc	66kW	(90ps)
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720.12	D	1972	1986	4 Cyl	3596cc	72kW	(98ps)
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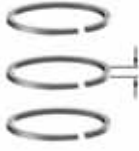
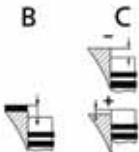

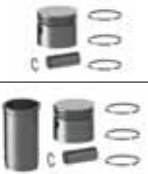
	11-01942-000 CH 75,580 B- 37,950 BØ 37,700 TL 120,600	AP	91-09942-000 1 3,000  MoP 2 2,500  P 3 5,000  CrP		Ø 102,000	31-03942-000
	36,00x86,00					

Man, Renault Trucks (RVI) ve Saviem ile Ortak Motor

	K=114,00 L=234,50 H+F=8,00+0,80 D=120,90	WF			51-05942-000	71-07942-000
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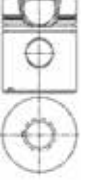




	K=114,00 L=218,00 H+F=8,00+0,70 D=120,70	WF-PH			51-05948-000	71-07076-000
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	K=114,00 L=220,50 H+F=8,00+0,70 D=120,70	WF-PH			51-05949-000	71-07944-000
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	Type				
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102,000

797	D	1971	6 Cyl	5496cc	89-100kW	(121-136ps)
D 0216 BMXU	D	1971	6 Cyl	5496cc	110kW	(150ps)
U 5 M 62	D	1971	6 Cyl	5496cc	kW	(ps)






	11-01943-000 CH 77,820 B- 38,200 BØ 38,400 TL 123,820	AP	91-09942-000 1 3,000  MoP 2 2,500  P 3 5,000  CrP		Ø 102,000	31-03943-000
	36,00x86,00					
Man, Renault, Renault Trucks (RVI) ve Saviem ile Ortak Motor						

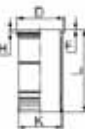
	K=114,00 L=235,50 H+F=8,00+0,80 D=121,00	WF			51-05943-000	71-07943-000
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	K=114,00 L=234,00 H+F=8,00+0,80 D=122,50	WF			51-05944-000	71-07325-000
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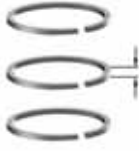
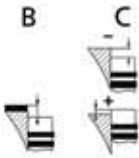

102,000

379-13 A	D	1971	6 Cyl	5489cc	kW	(ps)
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	11-02920-000 CH 77,800 B- 38,400 BØ 38,000 TL 131,700	AP	91-09942-000 1 3,000  MoP 2 2,500  P 3 5,000  CrP		Ø 102,000	31-04920-000
	36,00x86,00					

	K=114,00 L=235,50 H+F=8,00+0,80 D=121,00	WF			51-05943-000	71-08920-000
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	K=114,00 L=234,00 H+F=8,00+0,80 D=122,50	WF			51-05944-000	71-07056-000
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	Type			
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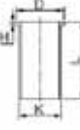
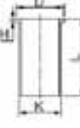
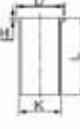
108,000

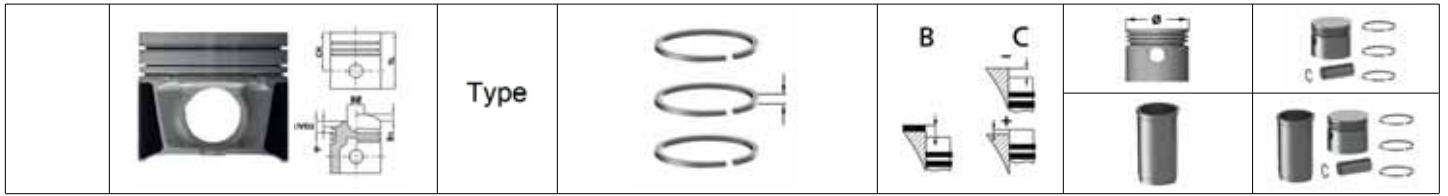
D0846HMN2

D 1969

6 Cyl

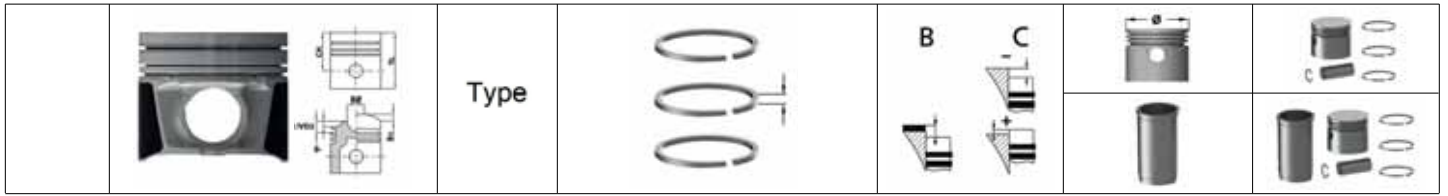
7252cc

	11-01591-000 CH 89,000 B- 40,000 BØ 43,300 TL 145,500	AP	91-09591-000 1 2,500  CrP 2 2,500  P 3 5,000  CrP	+0,16/+0,46	Ø 108,000	31-03591-000
 42,00x90,00						
Man ve Saviem ile Ortak Motor						
	K=112,98 L=254,00 H=5,05 D=117,85	DF			51-35591-000	71-07591-000
	K=113,48 L=254,00 H=5,05 D=117,85	DF +0,50			51-35591-050	
	K=113,98 L=254,00 H=5,05 D=117,85	DF +1,00			51-35591-100	
	K=113,06 L=254,00 H=5,05 D=117,85	DS			51-65580-000	
	K=113,50 L=254,00 H=5,05 D=117,85	DS +0,50			51-65580-050	
	K=114,00 L=254,00 H=6,00 D=118,85	DS +1,00			51-65580-100	



121,000
 D2156 MTN5 D 1974 1978 6 Cyl 10344cc 188kW (256ps)

	<p>11-01573-000 CH 94,000 VD1 2,400 B- 48,350 BØ 47,200 TL 162,000</p> <p> 45,00x102,00</p>	<p>AP HA</p>	<p>91-09593-000 1 3,500 CrP 2 3,000 P 3 3,000 P 4 5,500 CrP</p>	<p>+0,05/+0,35</p>	<p>Ø 121,000</p>	<p>31-03573-000</p>
<p>Man ve Saviem ile Ortak Motor</p>						
	<p>K=125,98 L=287,00 H=8,00 D=131,80</p>	<p>DF</p>			<p>51-35587-000</p>	<p>71-07573-000</p>
	<p>K=126,48 L=287,00 H=8,00 D=131,80</p>	<p>DF +0,50</p>			<p>51-35587-050</p>	
	<p>K=126,98 L=287,00 H=8,00 D=131,80</p>	<p>DF +1,00</p>			<p>51-35587-100</p>	
	<p>K=126,05 L=287,00 H=8,05 D=132,00</p>	<p>DS</p>			<p>51-65593-000</p>	
	<p>K=126,55 L=287,00 H=8,05 D=132,00</p>	<p>DS +0,50</p>			<p>51-65593-050</p>	



121,000


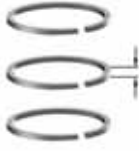
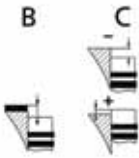

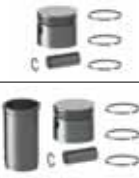
D2156 HM 6 D 1974 1975 6 Cyl 10344cc 173kW (235ps)

D2156 HMN 6 D 1966 1975 6 Cyl 10344cc 169kW (230ps)

	<p>11-01593-000 CH 94,000 B- 48,600 BØ 47,100 TL 162,000</p> <p>45,00x102,00</p>	<p>AP</p>	<p>91-09593-000</p> <table border="0"> <tr> <td>1 3,500</td> <td></td> <td>CrP</td> </tr> <tr> <td>2 3,000</td> <td></td> <td>P</td> </tr> <tr> <td>3 3,000</td> <td></td> <td>P</td> </tr> <tr> <td>4 5,500</td> <td></td> <td>CrP</td> </tr> </table>	1 3,500		CrP	2 3,000		P	3 3,000		P	4 5,500		CrP		<p>Ø 121,000</p>	<p>31-03593-000</p>
1 3,500		CrP																
2 3,000		P																
3 3,000		P																
4 5,500		CrP																






Man ve Saviem ile Ortak Motor


	<p>K=125,98 L=287,00 H=8,00 D=131,80</p>	<p>DF</p>			<p>51-35587-000</p>	<p>71-07593-000</p>
	<p>K=126,48 L=287,00 H=8,00 D=131,80</p>	<p>DF +0,50</p>			<p>51-35587-050</p>	
	<p>K=126,98 L=287,00 H=8,00 D=131,80</p>	<p>DF +1,00</p>			<p>51-35587-100</p>	
	<p>K=126,05 L=287,00 H=8,05 D=132,00</p>	<p>DS</p>			<p>51-65593-000</p>	
	<p>K=126,55 L=287,00 H=8,05 D=132,00</p>	<p>DS +0,50</p>			<p>51-65593-050</p>	

	Type				
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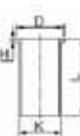

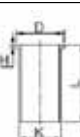
121,000

D2156 HM6	D	1974	1975	6 Cyl	10344cc	173kW	(235ps)
D2156 HMN6	D	1966	1975	6 Cyl	10344cc	169kW	(230ps)

	11-01600-000 CH 94,000 B- 48,600 BØ 47,000 TL 162,000	AP HA	91-09593-000 1 3,500  CrP 2 3,000  P 3 3,000  P 4 5,500  CrP		Ø 121,000	31-03600-000
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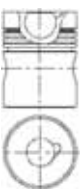




 45,00x102,00

Man ve Saviem ile Ortak Motor

	K=125,98 L=287,00 H=8,00 D=131,80	DF			51-35587-000	71-07593-000
	K=126,48 L=287,00 H=8,00 D=131,80	DF +0,50			51-35587-050	
	K=126,98 L=287,00 H=8,00 D=131,80	DF +1,00			51-35587-100	
	K=126,05 L=287,00 H=8,05 D=132,00	DS			51-65593-000	
	K=126,55 L=287,00 H=8,05 D=132,00	DS +0,50			51-65593-050	

121,000


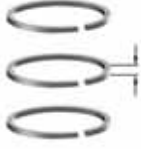






Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston

	11-01600-001 CH 93,800 B- 48,600 BØ 47,400 TL 161,800	AP HA	91-09593-000 1 3,500  CrP 2 3,000  P 3 3,000  P 4 5,500  CrP	+0,05/+0,35	Ø 121,000	31-03600-001
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 45,00x102,00








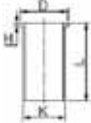
CH -0,20 mm

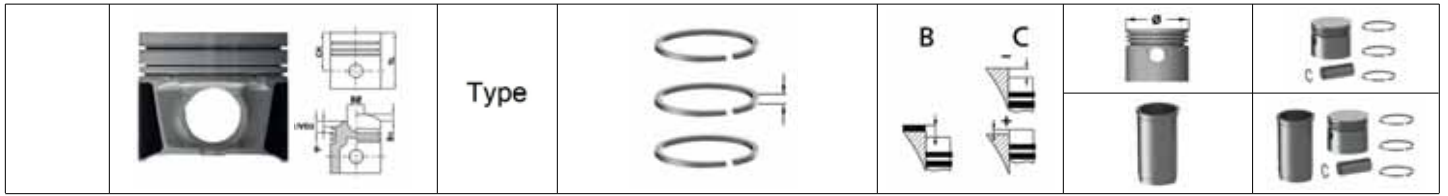
Man ve Saviem ile Ortak Motor

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

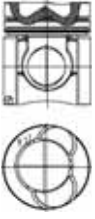




123,000

D2356 HM6DK	D	1974	1980
D2356 HMN5	D	1974	1980

 <p>11-01572-000 CH 94,000 B- 50,500 BØ 48,500 TL 162,000</p>  <p>45,00x102,00</p> <p>Man ve Saviem ile Ortak Motor</p>	<p>AP</p> <p>HA</p>	<p>91-09594-000</p> <p>1 3,500  CrP</p> <p>2 3,000  P</p> <p>3 3,000  P</p> <p>4 5,500  CrP</p>	<p>+0,05/+0,35</p>	<p>Ø 123,000</p>	<p>31-03572-000</p>
 <p>K=125,98 L=287,00 H=8,00 D=132,00</p>	<p>DF</p>			<p>51-35594-000</p>	<p>71-07572-000</p>
 <p>K=126,48 L=287,00 H=8,00 D=132,00</p>	<p>DF</p> <p>+0,50</p>			<p>51-35594-050</p>	

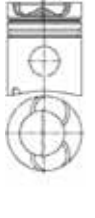






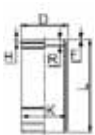
123,000
 DS 9.05/06/08 D 1985 1991 6 Cyl 8471cc

 <p>11-01146-000 CH 87,400 VD1 2,450 B- 20,150 BØ 69,000 TL 139,400</p>  50,00x92,00	AP	<p>91-09522-000</p> <p>1 3,160  CR</p> <p>2 2,385  CR</p> <p>3 4,747  CR</p>		Ø 123,000	<p>31-03146-000</p>
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 <p>K=127,95 L=265,00 H+F=10,25+0,80 D=140,70 R=18,00</p>	WF		O-Ring/Seal 55-50701-000 1 FPM129,50x4,00 2 FPM123,00x128,00x10,70	<p>51-05912-000 52-05912-000</p>	<p>71-08514-000 72-08514-000</p>
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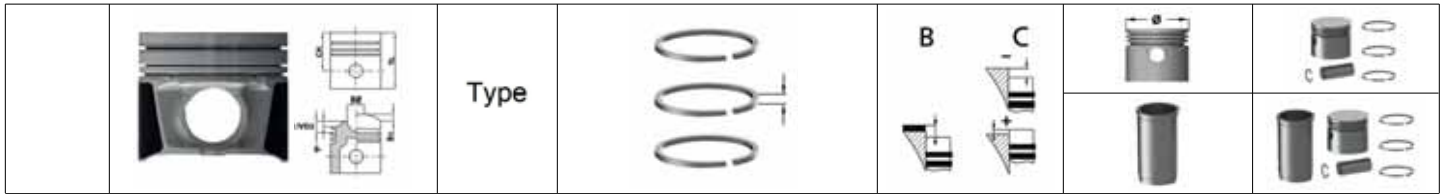
115,000
 DS 9 D 1998 6 Cyl 8476cc 185kW (252ps)
 DS 9.05 / 06 / 08 D 1985 1998 6 Cyl 8476cc 155-185kW (211-252ps)
 DSC 9 D 1985 1988 6 Cyl 8476cc 167kW (227ps)
 DSC 9.07 / 08 / 09 Euro 1 D 1987 2001 6 Cyl 8476cc 184-208kW (250-283ps)

 <p>11-02522-000 CH 87,400 B- 20,230 BØ 69,000 TL 139,400</p>  50,00x92,00	AP	<p>91-09522-000</p> <p>1 3,160  CR</p> <p>2 2,385  CR</p> <p>3 4,747  CR</p>	+0,07/+0,50	Ø 115,000	<p>31-04522-000</p>
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 <p>K=129,95 L=271,00 H+F=8,20+0,80 D=137,30 R=19,00</p>	WF		O-Ring/Seal 55-50704-000 3 FPM 129,50 x4,00	<p>51-05911-000 52-05911-000</p>	<p>71-07142-000 72-07142-000</p>
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 <p>K=127,95 L=265,00 H+F=10,25+0,80 D=140,70 R=18,00</p>	WF		O-Ring/Seal 55-50701-000 1 FPM129,50x4,00 2 FPM123,00x128,00x10,70	<p>51-05912-000 52-05912-000</p>	<p>71-08522-000 72-08522-000</p>
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 <p>K=129,95 L=271,00 H+F=8,20+0,80 D=137,30</p>	WF-PH			<p>51-05971-000</p>	<p>71-08529-000</p>
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115,000						
DSC 9.11 Euro 2	D	6 Cyl	8974cc	162kW	(220ps)	
DSC 9.12 Euro 2	D	6 Cyl	8974cc	191kW	(260ps)	
DSC 9.13 Euro 2	D	6 Cyl	8974cc	228kW	(310ps)	
DSC 9.15 Euro 2	D	6 Cyl	8974cc	228kW	(310ps)	

<p>11-02525-000 CH 83,400 VD1 0,500 B- 20,500 BØ 71,500 TL 130,900</p> <p>50,00x92,00</p>	AP	<p>91-09525-000</p> <p>1 3,160 CrP 2 2,385 P 3 3,500 CrP</p>	+0,35/+0,50	Ø 115,000	31-04525-000
<p>K=129,95 L=271,00 H+F=8,20+0,80 D=137,30 R=19,00</p>	WF		O-Ring/Seal 55-50704-000 3 FPM 129,50 x4,00	51-05911-000 52-05911-000	71-08525-000 72-08525-000
<p>K=127,95 L=265,00 H+F=10,25+0,80 D=140,70 R=18,00</p>	WF		O-Ring/Seal 55-50701-000 1 FPM 2 FPM 129,50x4,00 123,00x128,00x10,70	51-05912-000 52-05912-000	71-08524-000 72-08524-000
<p>K=128,00 L=258,00 H+F=8,20+0,80 D=140,75 R=10,50</p>	WF			51-05916-000	71-08526-000

115,000						
D 5	D	1967	1969	4 Cyl	5200cc	75kW (102ps)
D 8	D	1962	1969	6 Cyl	7800cc	115kW (157ps)

<p>11-02913-000 CH 96,200 VD1 2,500 B- 19,200 BØ 73,800 TL 158,100</p> <p>42,00x98,00</p>	AP	<p>91-09913-000</p> <p>1 3,000 CR 2 3,000 P 3 3,000 P 4 6,000 P 5 6,000 P</p>		Ø 115,000	31-04913-000
<p>K=129,95 L=271,00 H+F=8,05+0,70 D=137,30 R=19,00</p>	WF		O-Ring/Seal 55-50704-000 3 FPM 129,50 x4,00	51-05913-000 52-05913-000	71-08913-000 72-08913-000
<p>K=129,95 L=271,00 H+F=8,05+0,70 D=137,30</p>	WF-PH			51-05973-000	71-08929-000

	Type		B	C		

115,000

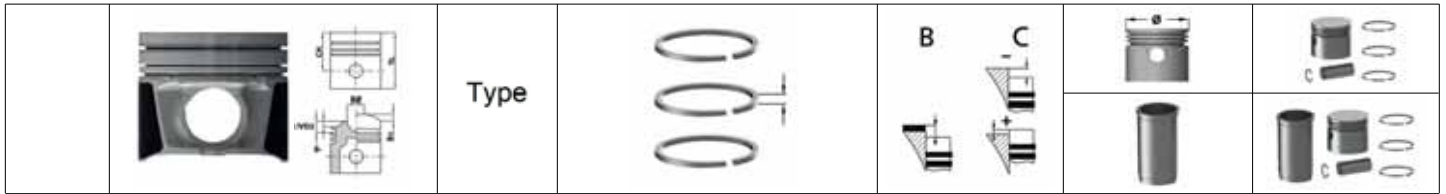
DS 8-05 / DS 8-06 LO	D	1981	1986	6 Cyl	7786cc	144-155kW	(190-205ps)
DS 801 LB 14 / 15 / 196	D	1975	1980	6 Cyl	7786cc	123kW	(163ps)

	11-02914-000 CH 96,200 VD1 2,500 B- 18,100 BØ 75,300 TL 150,100	AP	91-09914-000 1 2,385 CR 2 2,385 P 3 2,385 P 4 4,747 CR		Ø 115,000	31-04914-000
	K=129,95 L=271,00 H+F=8,20+0,80 D=137,30 R=19,00	WF		O-Ring/Seal 55-50704-000 3 FPM 129,50 x4,00	51-05911-000 52-05911-000	71-08914-000 72-08914-000
	K=129,95 L=271,00 H+F=8,05+0,70 D=137,30 R=19,00	WF		O-Ring/Seal 55-50704-000 3 FPM 129,50 x4,00	51-05913-000 52-05913-000	71-07145-000 72-07145-000
	K=129,95 L=271,00 H+F=8,20+0,80 D=137,30	WF-PH			51-05971-000	71-08930-000
	K=129,95 L=271,00 H+F=8,05+0,70 D=137,30	WF-PH			51-05973-000	71-08931-000

127,000

DS 11.01 / DSI 11.01	D	1973	1975	6 Cyl	11018cc	202kW	(275ps)
DS 11.01/2/14/15/18 DSC 11.01/2/4/11	D	1975	1978	6 Cyl	11018cc	206-245kW	(280-333ps)

	11-01148-000 CH 98,760 VD1 2,900 B- 27,060 BØ 76,000 TL 156,260	AP	91-09528-000 1 3,500 CR 2 2,385 P 3 4,747 CR		Ø 127,000	31-03148-000



127,000

DC 12.10 Euro 4	D	2005	6 Cyl	11716cc	250kW	(340ps)
DC 12.13 Euro 4	D	2005	6 Cyl	11716cc	280-309kW	(380-420ps)
DC 12.25 Euro 4	D		6 Cyl	11716cc	kW	(ps)
DT 12.03 Euro 4	D	2004	6 Cyl	11716cc	345kW	(470ps)
DT 12.11 Euro 4	D	2004	6 Cyl	11716cc	309kW	(420ps)
DT 12.12 Euro 4	D	2004	6 Cyl	11716cc	309kW	(420ps)
DT 12.17 Euro 4	D	2004	6 Cyl	11716cc	353kW	(480ps)
DT12.19	D		6 Cyl	11716cc	kW	(ps)

<p>11-01149-000 CH 85,210 B- 22,400 BØ 77,500 TL 125,210</p> <p>54,00x106,00</p>	STEEL PISTON	<p>91-09003-000</p> <p>1 3,500 CR</p> <p>2 2,385 P</p> <p>3 3,500 CR</p>		Ø 127,000	31-03147-000
<p>K=140,00 L=270,50 H=194,27 D=151,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50706-000</p> <p>1 FPM 144,00x3,50 1 FPM 148,00x4,00</p>	<p>51-05963-000 52-05963-000</p>	<p>71-08516-000 72-08516-000</p>

127,000

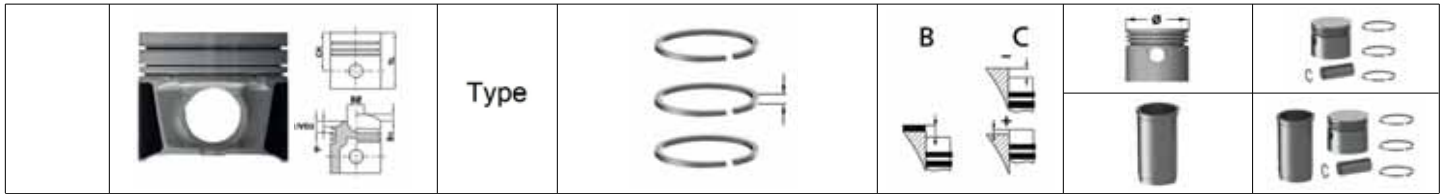
DC 12.420 EURO5	D	2013	6 Cyl	11700cc	309kW	(420ps)
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<p>11-01150-000 CH 85,250 B- 23,000 BØ 75,000 TL 122,750</p> <p>54,00x106,00</p>	STEEL PISTON	<p>91-09003-000</p> <p>1 3,500 CR</p> <p>2 2,385 P</p> <p>3 3,500 CR</p>		Ø 127,000	31-03150-000
<p>K=140,00 L=270,50 H=194,27 D=151,00 R=8,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50706-000</p> <p>1 FPM 144,00x3,50 1 FPM 148,00x4,00</p>	<p>51-05933-000 52-05933-000</p>	<p>71-07930-000 72-07930-000</p>

127,000

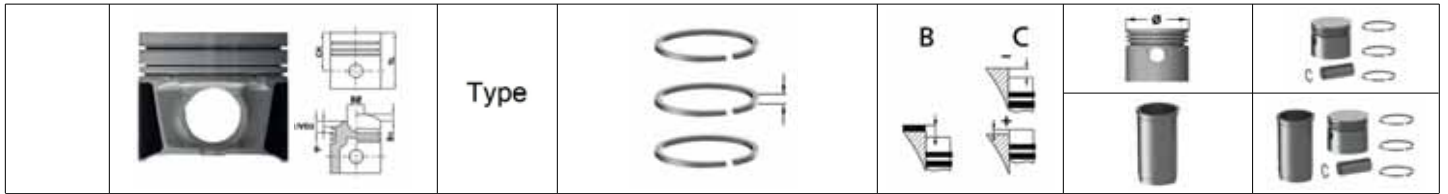
DS 11	D	1966	6 Cyl	11000cc	202kW	(275ps)
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<p>11-01917-000 CH 98,500 VD1 2,500 B- 26,800 BØ 75,600 TL 166,000</p> <p>47,00x108,00</p>	AP	<p>91-09916-000</p> <p>1 2,385 CR</p> <p>2 2,385 P</p> <p>3 2,385 P</p> <p>4 6,335 CR</p> <p>5 6,335 P</p>		Ø 127,000	31-03917-000
<p>K=140,00 L=291,00 H+F=8,20+0,80 D=153,80 R=20,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50703-000</p> <p>3 VI 140,00x4,00</p>	<p>51-05917-000 52-05917-000</p>	<p>71-07917-000 72-07917-000</p>



127,000							
DS 11.01			D	1978	1991	6 Cyl	11022cc 184-213kW (250-290ps)
DS 11.02			D	1980	1988	6 Cyl	11022cc 224-232kW (305-315ps)
DS 11.14			D	1978	1991	6 Cyl	11022cc 206kW (280ps)
DS 11.15			D	1981	1998	6 Cyl	11022cc 224kW (305ps)
DS 11.16			D	1981	1988	6 Cyl	11022cc 224kW (305ps)
DS 11.18			D	1981	1998	6 Cyl	11022cc 254-267kW (345-363ps)
DSC 11.01			D	1981	1999	6 Cyl	11022cc 245kW (333ps)

<p>11-01918-000 CH 98,760 VD1 2,900 B- 27,060 BØ 76,000 TL 156,260</p> <p> 50,00x108,00</p>	AP	<p>91-09918-000</p> <p>1 2,385 Mo 2 2,385 CR 3 4,747 CR</p>		Ø 127,000	31-03918-000
<p>K=140,00 L=291,00 H+F=8,20+0,80 D=153,80 R=20,00</p>	WF		<p>O-Ring/Seal 55-50703-000 3 VI 140,00x4,00</p>	<p>51-05917-000 52-05917-000</p>	<p>71-07073-000 72-07073-000</p>
<p>K=140,00 L=291,00 H+F=7,90+0,80 D=153,80 R=21,00</p>	WF		<p>O-Ring/Seal 55-50707-000 1 T 148,10x153,70x0,30 3 FPM 140,00x4,00</p>	<p>51-05918-000 52-05918-000</p>	<p>71-07918-000 72-07918-000</p>

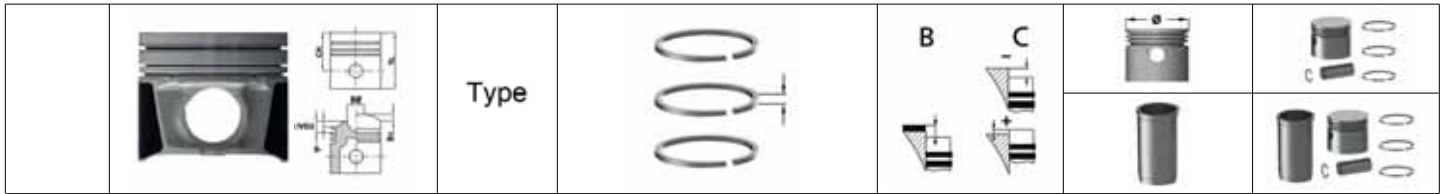


127,000								
DS 11.01			D	1978	1991	6 Cyl	11022cc	184-213kW (250-290ps)
DS 11.02			D	1980	1988	6 Cyl	11022cc	224-232kW (305-315ps)
DS 11.14			D	1978	1991	6 Cyl	11022cc	206kW (280ps)
DS 11.15			D	1981	1998	6 Cyl	11022cc	224kW (305ps)
DS 11.16			D	1981	1988	6 Cyl	11022cc	224kW (305ps)
DS 11.18			D	1981	1998	6 Cyl	11022cc	254-267kW (345-363ps)
DSC 11.01			D	1981	1999	6 Cyl	11022cc	245kW (333ps)

<p>11-01919-000 CH 98,760 VD1 2,900 B- 27,060 BØ 76,000 TL 156,260</p> <p>50,00x108,00</p>	AP	<p>91-09919-000</p> <p>1 2,380 Mo</p> <p>2 2,380 Mo</p> <p>3 2,380 Mo</p> <p>4 4,740 CR</p>			Ø 127,000	31-03919-000
<p>K=140,00 L=291,00 H+F=8,20+0,80 D=153,80 R=20,00</p>	WF		O-Ring/Seal 55-50703-000 3 VI 140,00x4,00	51-05917-000 52-05917-000	71-07919-000 72-07919-000	
<p>K=140,00 L=291,00 H+F=7,90+0,80 D=153,80 R=21,00</p>	WF		O-Ring/Seal 55-50707-000 1 T 148,10x153,70x0,30 3 FPM 140,00x4,00	51-05918-000 52-05918-000	71-07920-000 72-07920-000	

127,000								
DC 11.01 / 07 Euro 2			D	1996	2004	6 Cyl	10640cc	243-250kW (330-340ps)
DC 11.03 / 06 / 08 Euro 3			D	1996		6 Cyl	10640cc	250kW (340ps)

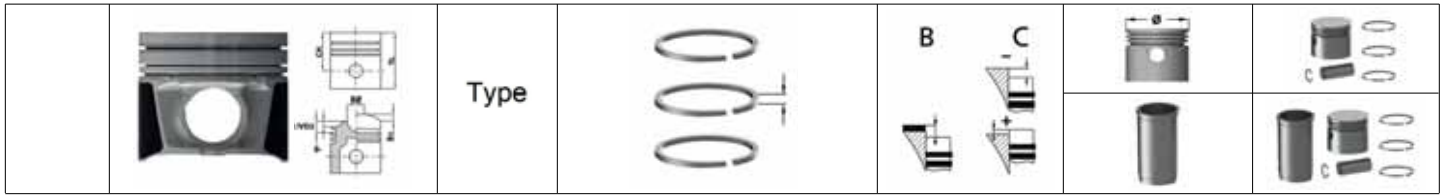
<p>11-01920-000 CH 92,040 B- 21,150 BØ 75,100 TL 136,040</p> <p>54,00x106,00</p>	AP	<p>91-09003-000</p> <p>1 3,500 CR</p> <p>2 2,385 P</p> <p>3 3,500 CR</p>			Ø 127,000	31-03920-000
<p>K=139,00 L=271,10 H=194,27 D=150,00 R=8,00</p>	WF		O-Ring/Seal 55-50705-000 1 FPM 144,00x2,50 1 FPM 148,00x4,00	51-05922-000 52-05922-000	71-07921-000 72-07921-000	
<p>K=140,00 L=270,50 H=194,27 D=151,00 R=8,00</p>	WF		O-Ring/Seal 55-50706-000 1 FPM 144,00x3,50 1 FPM 148,00x4,00	51-05933-000 52-05933-000	71-07928-000 72-07928-000	



127,000								
DC 11.02 Euro 2	D	1996	2004	6 Cyl	10640cc	280kW	(380ps)	
DC 11.03 / 04 / 09 Euro 3	D	1996		6 Cyl	10640cc	250-280kW	(340-380ps)	
DC 9.11 / 13 / 13 / 20 Euro 3	D	2004		4 Cyl	8870cc	169-228kW	(230-310ps)	
DC 9.19	D	2006		4 Cyl	8870cc	169kW	(230ps)	
DC 9.21	D	2004		4 Cyl	8870cc	228kW	(310ps)	
DC 9.60 A 177 / 199 / 228 / 243 Euro 2	D	2006		4 Cyl	8870cc	177-243kW	(240-330ps)	
DC 9.64 A 177 / 199 / 228 / 243 Euro 3	D	2006		4 Cyl	8870cc	177-243kW	(240-330ps)	






	11-01921-000 CH 92,040 B- 21,150 BØ 75,100 TL 136,040	AP	91-09003-000 1 3,500 CR 2 2,385 P 3 3,500 CR	Ø 127,000	31-03921-000
		PDB			
	K=139,00 L=271,10 H=194,27 D=150,00 R=8,00	WF	O-Ring/Seal 55-50705-000 1 FPM 144,00x2,50 1 FPM 148,00x4,00	51-05922-000 52-05922-000	71-07922-000 72-07922-000
		WF			
	K=140,00 L=270,50 H=194,27 D=151,00 R=8,00	WF	O-Ring/Seal 55-50706-000 1 FPM 144,00x3,50 1 FPM 148,00x4,00	51-05933-000 52-05933-000	71-07927-000 72-07927-000
		WF			

127,000								
DC 9.17 / 18 Euro4	D	2004		6 Cyl	10640cc	kW	(ps)	
	11-01922-000 CH 92,040 B- 27,250 BØ 92,500 TL 136,040	AP	91-09003-000 1 3,500 CR 2 2,385 P 3 3,500 CR	Ø 127,000	31-03922-000			
		PDB						
	K=139,00 L=271,10 H=194,27 D=150,00 R=8,00	WF	O-Ring/Seal 55-50705-000 1 FPM 144,00x2,50 1 FPM 148,00x4,00	51-05922-000 52-05922-000	71-07923-000 72-07923-000			
		WF						



127,000

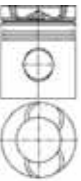





DC 9.16 / 17 / 18 Euro 4	D	2005	5 Cyl	8870cc
DC 9.16 / 17 Euro 4	D	2005	5 Cyl	8870cc
DC 9.16 Euro 4	D	2004	5 Cyl	8870cc
DC 9.17 / 18 Euro 4	D	2007	5 Cyl	8870cc
DC 9.17 Euro 4	D	2004	5 Cyl	8870cc
DC 9.18 Euro 4	D	2004	5 Cyl	8870cc

 <p>11-01923-000 CH 92,040 B- 21,500 BØ 93,000 TL 136,040</p> <p> 54,00x106,00</p>	AP	91-09003-000 1 3,500  CR 2 2,385  P 3 3,500  CR		Ø 127,000	31-03923-000
	PDB				

 <p>K=140,00 L=270,50 H=194,27 D=151,00</p>	WF		O-Ring/Seal 55-50706-000 1 FPM 144,00x3,50 1 FPM 148,00x4,00	51-05963-000 52-05963-000	71-08515-000 72-08515-000
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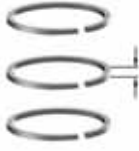
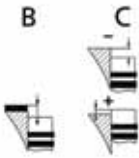

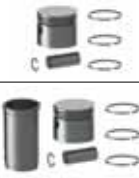
127,000

DSC 11 (USA)	D	1978	1988	6 Cyl	11000cc	kW	(ps)
DSI 11 (USA)	D	1973	1990	6 Cyl	11000cc	169kW	(230ps)

 <p>11-02527-000 CH 98,760 VD1 2,900 B- 25,410 BØ 76,000 TL 156,260</p> <p> 50,00x108,00</p>	AP	91-09527-000 1 3,160  CR 2 2,385  P 3 2,385  P 4 4,740  CR		Ø 127,000	31-04527-000
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 <p>K=140,00 L=291,00 H+F=8,20+0,80 D=153,80 R=20,00</p>	WF		O-Ring/Seal 55-50703-000 3 VI 140,00x4,00	51-05917-000 52-05917-000	71-07074-000 72-07074-000
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 <p>K=140,00 L=291,00 H+F=7,90+0,80 D=153,80 R=21,00</p>	WF		O-Ring/Seal 55-50707-000 1 T 148,10x153,70x0,30 3 FPM 140,00x4,00	51-05918-000 52-05918-000	71-08527-000 72-08527-000
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	Type				
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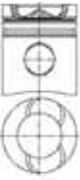




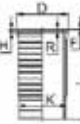
127,000

DS 11.34 / 71-74	D	1981	6 Cyl	11027cc
DSC 11.02 / 12 / 13 / 16 / 16B / 17 / 17B / 18 / 18B	D	1981	6 Cyl	11027cc

	11-02528-000 CH 98,760 VD1 2,960 B- 24,500 BØ 75,500 TL 156,260	AP	91-09528-000 1 3,500  CR 2 2,385  CR 3 4,747  CR	-0,14/+0,15	Ø 127,000	31-04528-000
	50,00x108,00					
	K=139,95 L=291,00 H+F=8,18+0,80 D=153,80 R=21,00	WF-PH		O-Ring/Seal 55-50703-000 3 VI 140,00x4,00	51-05914-000 52-05914-000	71-08523-000 72-08523-000
	K=140,00 L=291,00 H+F=7,90+0,80 D=153,80 R=21,00	WF		O-Ring/Seal 55-50707-000 1 T 148,10x153,70x0,30 3 FPM 140,00x4,00	51-05918-000 52-05918-000	71-08519-000 72-08519-000






127,000


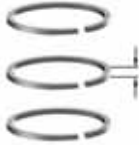
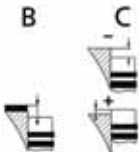

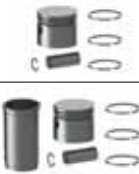
DSC 14.05	D	1980	1988	6 Cyl	14181cc	290-318kW	(394-432ps)
DSC 14.06	D	1980	1996	6 Cyl	14181cc	297kW	(404ps)

	11-02530-000 CH 94,670 VD1 2,920 B- 24,000 BØ 74,600 TL 146,670	AP	91-09915-000 1 3,500  CR 2 2,385  CR 3 4,747  CR	-0,16/-0,54	Ø 127,000	31-04530-000
	50,00x105,00					
	K=140,00 L=276,00 H+F=10,05+0,40 D=156,00 R=20,00	WF		O-Ring/Seal 55-50702-000 1 FPM 136,00x10,75 2 FPM 140,00x4,00	51-05924-000 52-05924-000	71-08538-000 72-08538-000

127,000

Yanma odasi farkli olan versiyonu / different version of combustion chamber

	11-02530-002 CH 94,670 VD1 2,920 B- 26,000 BØ 75,350 TL 146,670	AP	91-09915-000 1 3,500  CR 2 2,385  CR 3 4,747  CR	-0,16/-0,54	Ø 127,000	31-04530-002
	50,00x105,00					

	Type				
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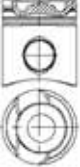




127,000

DSC 14.13 Euro2

D 1994

DSC 14.15 Euro2

D 1996 2001






	<p>11-02881-000 CH 94,670 VD1 2,920 B- 19,590 BØ 83,000 TL 146,670</p>  50,00x102,00	<p>AP</p> <p>HA</p> <p>PDB</p>	<p>91-09003-000</p> <p>1 3,500  CR</p> <p>2 2,385  P</p> <p>3 3,500  CR</p>		Ø 127,000	31-04881-000
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	<p>K=140,00 L=275,50 H+F=10,05+0,40 D=156,00 R=8,50</p>	WF		<p>O-Ring/Seal</p> <p>55-50702-000</p> <p>1 FPM 136,00x10,75 2 FPM 140,00x4,00</p>	<p>51-05929-000 52-05929-000</p>	<p>71-08881-000 72-08881-000</p>
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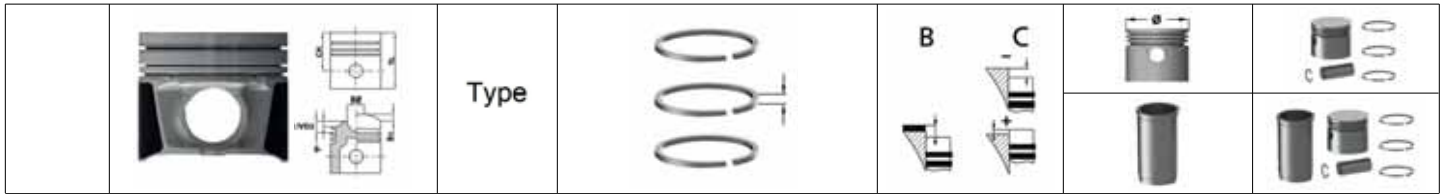
127,000

DSC 14 Series

D 1980 1996 8 Cyl 14181cc 331-346kW (450-470ps)

	<p>11-02882-000 CH 94,670 VD1 2,920 B- 23,850 BØ 75,500 TL 146,670</p>  50,00x108,00	AP	<p>91-09528-000</p> <p>1 3,500  CR</p> <p>2 2,385  P</p> <p>3 4,747  CR</p>		Ø 127,000	31-04882-000
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	<p>K=140,00 L=276,00 H+F=10,05+0,40 D=156,00 R=12,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50702-000</p> <p>1 FPM 136,00x10,75 2 FPM 140,00x4,00</p>	<p>51-05925-000 52-05925-000</p>	<p>71-08882-000 72-08882-000</p>
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127,000

DC 12.01 / 02 / 03 / 09 Euro 3	D	1995	6 Cyl	11716cc	294-309kW	(400-420ps)
DC 16.02 Euro 3	D	2000	8 Cyl	15600cc	353kW	(480ps)
DSC 12.01 / 02 / 03 / 05 Euro 2	D	1995	6 Cyl	11716cc	265-309kW	(360-420ps)
DT 12.02 Euro 3	D	2000	6 Cyl	11716cc	346kW	(470ps)

<p>11-02886-000 CH 85,040 B- 22,150 BØ 78,000 TL 129,040</p> <p>54,00x106,00</p>	AP	<p>91-09003-000</p> <p>1 3,500 CR 2 2,385 P 3 3,500 CR</p>		Ø 127,000	31-04886-000
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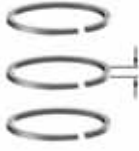
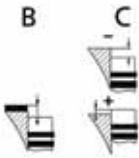

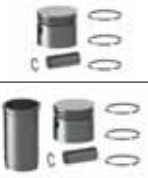
<p>K=139,00 L=271,10 H=194,27 D=150,00 R=8,00</p>	WF		<p>O-Ring/Seal 55-50705-000 1 FPM 144,00x2,50 1 FPM 148,00x4,00</p>	<p>51-05922-000 52-05922-000</p>	<p>71-08886-000 72-08886-000</p>
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127,000

DSC 14.03 / 04	D	1987	1998	8 Cyl	14181cc	331-346kW (450-470ps)
DSC 14.08 / 09 / 10 / 16 Euro 1	D	1988	2001	8 Cyl	14181cc	309-368kW (420-500ps)








<p>11-02887-000 CH 94,670 VD1 2,920 B- 23,850 BØ 75,500 TL 146,670</p> <p>50,00x108,00</p>	AP YS HA	<p>91-09528-000</p> <p>1 3,500 CR 2 2,385 CR 3 4,747 CR</p>		Ø 127,000	31-04887-000
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<p>K=140,00 L=276,00 H+F=10,05+0,40 D=156,00 R=12,00</p>	WF		<p>O-Ring/Seal 55-50702-000 1 FPM 136,00x10,75 2 FPM 140,00x4,00</p>	<p>51-05925-000 52-05925-000</p>	<p>71-08887-000 72-08887-000</p>
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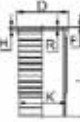
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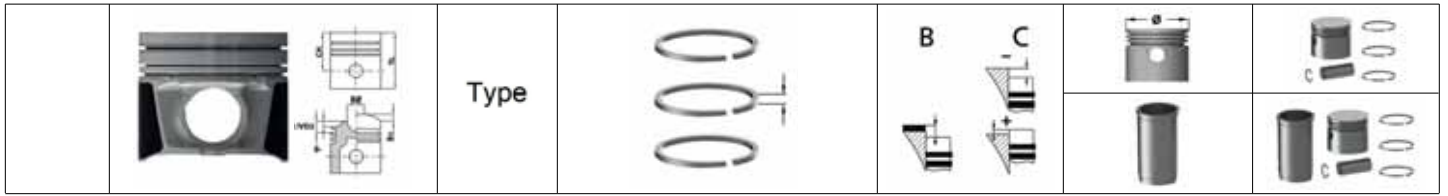
127,000

DC 12.01 / 02 / 03 / 09 Euro 3	D	1995	6 Cyl	11716cc	294-309kW	(400-420ps)
DC 16.02 Euro 3	D	2000	8 Cyl	15600cc	353kW	(480ps)
DSC 12.01 / 02 / 03 / 05 Euro 2	D	1995	6 Cyl	11716cc	265-309kW	(360-420ps)
DT 12.02 Euro 3	D	2000	6 Cyl	11716cc	346kW	(470ps)

	11-02888-000 CH 85,040 B- 22,150 BØ 78,000 TL 129,040	AP PDB	91-09003-000 1 3,500  CR 2 2,385  P 3 3,500  CR		Ø 127,000	31-04888-000
	54,00x106,00					
	K=139,00 L=271,10 H=194,27 D=150,00 R=8,00	WF		O-Ring/Seal 55-50705-000 1 FPM 144,00x2,50 1 FPM 148,00x4,00	51-05922-000 52-05922-000	71-08888-000 72-08888-000
	K=140,00 L=270,50 H=194,27 D=151,00 R=8,00	WF		O-Ring/Seal 55-50706-000 1 FPM 144,00x3,50 1 FPM 148,00x4,00	51-05933-000 52-05933-000	71-08885-000 72-08885-000








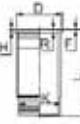
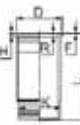

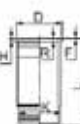
127,000

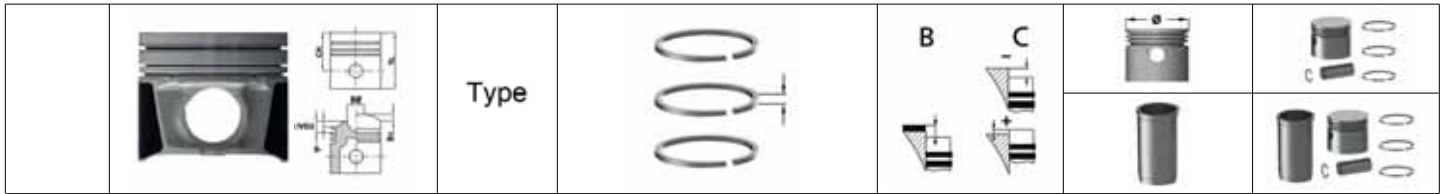
DSC 14.09	D	1993	8 Cyl	14181cc	368kW	(500ps)
	11-02889-000 CH 94,670 VD1 2,980 B- 15,920 BØ 89,350 TL 146,670	AP YS HA	91-09528-000 1 3,500  CR 2 2,385  P 3 4,747  CR	-0,16/-0,54	Ø 127,000	31-04889-000
	50,00x108,00					
	K=140,00 L=276,00 H+F=10,05+0,40 D=156,00 R=12,00	WF		O-Ring/Seal 55-50702-000 1 FPM 136,00x10,75 2 FPM 140,00x4,00	51-05925-000 52-05925-000	71-08889-000 72-08889-000



127,000

DS 11	D	1975	1980	6 Cyl	11022cc	166-233kW	(225-317ps)
DS 11.08 / 21-23 / 30 / 35 / 36 / 39 / 75	D			6 Cyl	11022cc	228-267kW	(310-363ps)
DSC 11.21 / 23 Euro 1	D	1982	2000	6 Cyl	11022cc	235-266kW	(320-362ps)
DSC 11.35 / 36 / 39 / 71	D	1982	2000	6 Cyl	11022cc	191-267kW	(260-363ps)
DSC 11.74 / 75 Euro 1	D	1996	1999	6 Cyl	11022cc	235-265kW	(320-360ps)
DSC 11.79 Euro 2	D	1996	1999	6 Cyl	11022cc	250kW	(340ps)

  	<p>11-02895-000 CH 98,760 VD1 2,960 B- 16,520 BØ 90,000 TL 156,260</p> <p>50,00x108,00</p>	AP	<p>91-09528-000 1 3,500  CR 2 2,385  CR 3 4,747  CR</p>	-0,15/+0,15	Ø 127,000	31-04895-000
	K=140,00 L=291,00 H+F=8,20+0,80 D=153,80 R=20,00	WF		O-Ring/Seal 55-50703-000 3 VI 140,00x4,00	51-05917-000 52-05917-000	71-08892-000 72-08892-000
	K=140,00 L=291,00 H+F=8,20+0,80 D=153,86 R=11,50	WF		O-Ring/Seal 55-50703-000 3 VI 140,00x4,00	51-05928-000 52-05928-000	71-08536-000 72-08536-000
	K=140,00 L=291,00 H+F=7,90+0,80 D=153,80 R=12,00	WF		O-Ring/Seal 55-50707-000 1 T 148,10x153,70x0,30 3 FPM 140,00x4,00	51-05926-000 52-05926-000	71-08893-000 72-08893-000
	K=140,00 L=291,00 H+F=7,92+0,80 D=153,86 R=12,00	WF		O-Ring/Seal 55-50708-000 1 T 148,10x153,70x0,30 3 FPM 140,00x4,00 1 FPM 138,00x143,00x11,00	51-05927-000 52-05927-000	71-08895-000 72-08895-000
	K=140,00 L=291,00 H+F=8,20+0,80 D=153,86 R=11,50	WF		O-Ring/Seal 55-50703-000 3 VI 140,00x4,00	51-05928-000 52-05928-000	71-08536-000 72-08536-000



127,000						
DS 14	D	1969	1981	8 Cyl	14181cc	257-283kW (350-385ps)
DS 14.01 / 02 / 06	D	1980		8 Cyl	14181cc	275-310kW (387-425ps)
DS 14.42 A 24 S	D	1984	1998	8 Cyl	14181cc	294kW (400ps)
DSC 14	D	1980	1988	8 Cyl	14181cc	316kW (430ps)
DSC 14.01 / 02	D	1980	1988	8 Cyl	14181cc	297-309kW (390-420ps)
DSI 14.420	D	1983		8 Cyl	14181cc	309kW (420ps)

<p>11-02902-000 CH 94,670 VD1 2,920 B- 26,200 BØ 75,500 TL 146,670</p> <p> 50,00x108,00</p>	AP	<p>91-39527-000</p> <p>1 3,160 CR</p> <p>2 2,385 CR</p> <p>3 4,740 CR</p>	-0,16/-0,54	Ø 127,000	31-04902-000
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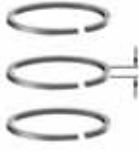
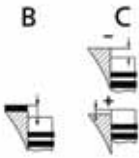

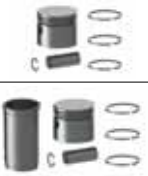



<p>K=140,00 L=276,00 H+F=10,05+0,40 D=156,00 R=20,00</p>	WF		O-Ring/Seal 55-50702-000 1 FPM 136,00x10,75 2 FPM 140,00x4,00	51-05924-000 52-05924-000	71-08902-000 72-08902-000
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127,000						
DC 12.01 / 02 / 03 / 09 / 14 Euro 3	D	1995		6 Cyl	11716cc	294-309kW (400-420ps)
DC 12.50 A 272 / 316 / 330 Euro 2	D	2006		6 Cyl	11716cc	272-330kW (370-450ps)
DC 16.01 / 03 / 04 Euro 3	D	2000		8 Cyl	15600cc	368-427kW (500-580ps)
DC 16.41 A 294 / 331 / 368 / 404 / 432 Euro 2	D	2006		8 Cyl	15600cc	294-404kW (400-588ps)
DI 12.54 A 243 / 272 / 280 Euro 2	D	2006		6 Cyl	11716cc	243-280kW (330-381ps)
DSC 12.01 / 02 / 03 / 05 Euro 2	D	1995		6 Cyl	11716cc	265-309kW (360-420ps)
DT 12.02 / 08 Euro 3	D	1995		6 Cyl	11716cc	324-346kW (440-470ps)

<p>11-02918-000 CH 85,210 B- 22,150 BØ 78,000 TL 125,210</p> <p> 54,00x106,00</p>	STEEL PISTON	<p>91-09003-000</p> <p>1 3,500 CR</p> <p>2 2,385 P</p> <p>3 3,500 CR</p>	0/0,35	Ø 127,000	31-04918-000
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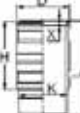
<p>K=139,00 L=271,10 H=194,27 D=150,00 R=8,00</p>	WF		O-Ring/Seal 55-50705-000 1 FPM 144,00x2,50 1 FPM 148,00x4,00	51-05922-000 52-05922-000	71-07924-000 72-07924-000
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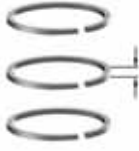
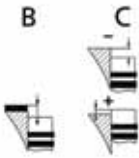




<p>K=140,00 L=270,50 H=194,27 D=151,00 R=8,00</p>	WF		O-Ring/Seal 55-50706-000 1 FPM 144,00x3,50 1 FPM 148,00x4,00	51-05933-000 52-05933-000	71-07926-000 72-07926-000
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	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

130,000

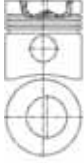






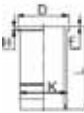
DC 13 PDE Euro5 D 2013 6 Cyl 12700cc 294kW (400ps)


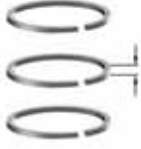






	<p>11-02627-000 CH 82,000 B- 23,100 BØ 78,200 TL 128,000</p>  58,00x104,00	<p>AP</p> <p>PDB</p>	<p>91-09479-000</p> <p>1 3,500  CK St</p> <p>2 3,000  CR</p> <p>3 4,000  CK St</p>		<p>Ø 130,000</p>	<p>31-04627-000</p>
	<p>K=140,00 L=270,50 H=194,27 D=151,00 X=8,85 (RING)</p>	<p>WF</p>		<p>O-Ring/Seal</p> <p>55-50706-000 1 FPM 144,00x3,50 1 FPM 148,00x4,00</p>	<p>51-05977-000 52-05977-000</p>	<p>71-07929-000 72-07929-000</p>

	Type				
					

100,000






WD308.40 / 41 / 45	D	3 Cyl	2355cc	31-35kW	(40-47ps)
WD408.40 / 41 / 42 / 43	D 1962	4 Cyl	3140cc	38-47kW	(52-63ps)

	11-01961-000 CH 63,400 B- 19,400 BØ 54,000 TL 103,900  35,00x83,00		91-09961-000 1 2,500  CrP 2 2,500  P 3 2,500  CrP 4 5,000  CrP	+0,25/+0,28	Ø 100,000	31-03961-000
	K=109,37 L=197,00 H+F=9,03+0,90 D=117,95	WF-PH			51-05960-000	71-07961-000
	K=109,37 L=197,00 H+F=9,03+0,90 D=117,95	WF-CR			51-05961-000	71-07101-000

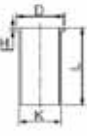
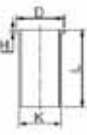
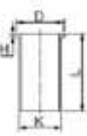
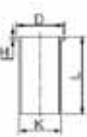
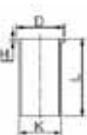
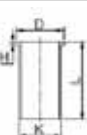
	Type		 		
					


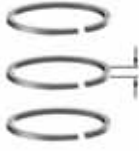
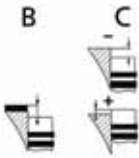





108,000

D0824 Euro1 LF01 / LF03-LF10 / LFL01 / LFL05 / LOH01-LOH03	D	1991	4 Cyl	4580cc	103-118kW	(140-160ps)
D0826 Euro 1 LF04/LF07-LF08/LFG05-LFG07/LFL01-LFL02/LFL05-LFL08 /LOH06-LOH07/LOH10/LUH01-LUH03/LUH05-LUH06/LUH10	D	1989	6 Cyl	6871cc	114-198kW	(155-270ps)

	11-01592-000 CH 73,000 VD1 1,700 B- 21,250 BØ 63,000 TL 113,000	AP	91-09592-000 1 3,000  CR 2 2,500  CR 3 4,000  CR	+0,10/+0,40	Ø 108,000 Ø 108,500	31-03592-000 31-03592-050
	40,00x90,00					

Man ve Steyr ile Ortak Motor

	K=111,47 L=217,00 H=4,05 D=116,00	DF			51-35592-000	71-07592-000
	K=111,72 L=217,00 H=4,05 D=116,00	DF +0,25			51-35592-025	
	K=111,97 L=217,00 H=4,05 D=116,00	DF +0,50			51-35592-050	
	K=112,47 L=217,00 H=5,00 D=117,00	DF +1,00			51-35592-100	
	K=111,54 L=217,00 H=4,05 D=116,00	DS			51-65596-000	
	K=112,04 L=217,00 H=4,05 D=116,00	DS +0,50			51-65596-050	

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

126,000

WD615E2-3A











D

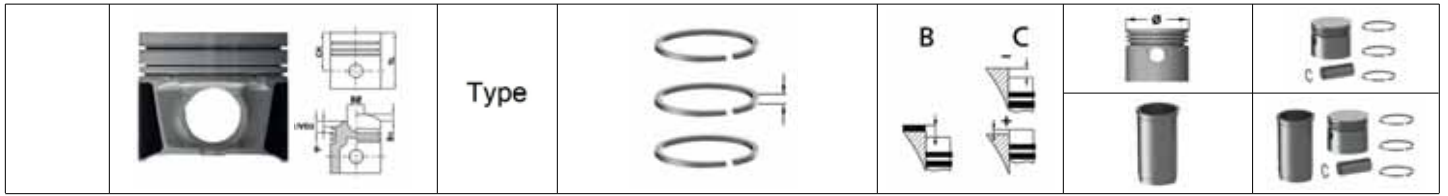
6 Cyl

9726cc

kW


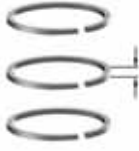
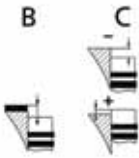






(ps)

 <p>11-01963-000 CH 80,000 VD1 0,650 B- 19,500 BØ 75,150 TL 123,000</p>  50,00x105,00	<p>AP YS</p>	<p>91-09965-000 1 3,500  CkP 2 3,000  P 3 4,000  CrP</p>			<p>Ø 126,000</p>	<p>31-03963-000</p>
 <p>K=129,98 L=241,00 H=4,84 D=136,35</p>	<p>DF</p>				<p>51-35965-000</p>	<p>71-07963-000</p>
 <p>K=130,00 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,02</p>				<p>51-35965-002</p>	
 <p>K=130,03 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,05</p>				<p>51-35965-005</p>	
 <p>K=130,25 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,25</p>				<p>51-35965-025</p>	
 <p>K=130,50 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,50</p>				<p>51-35965-050</p>	



126,000
 HWD615-E3 D 6 Cyl 9726cc

	<p>11-01965-000 CH 79,900 B- 19,000 BØ 75,100 TL 123,300</p> <p> 50,00x105,00</p>	<p>AP YS</p>	<p>91-09965-000 1 3,500 CkP 2 3,000 P 3 4,000 CrP</p>		<p>Ø 126,000</p>	<p>31-03965-000</p>
	<p>K=129,98 L=241,00 H=4,84 D=136,35</p>	<p>DF</p>			<p>51-35965-000</p>	<p>71-07965-000</p>
	<p>K=130,00 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,02</p>			<p>51-35965-002</p>	
	<p>K=130,03 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,05</p>			<p>51-35965-005</p>	
	<p>K=130,25 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,25</p>			<p>51-35965-025</p>	
	<p>K=130,50 L=241,00 H=4,84 D=136,35</p>	<p>DF +0,50</p>			<p>51-35965-050</p>	

		Type		 		
						

98,480

77.12 / 16








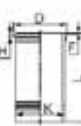
D

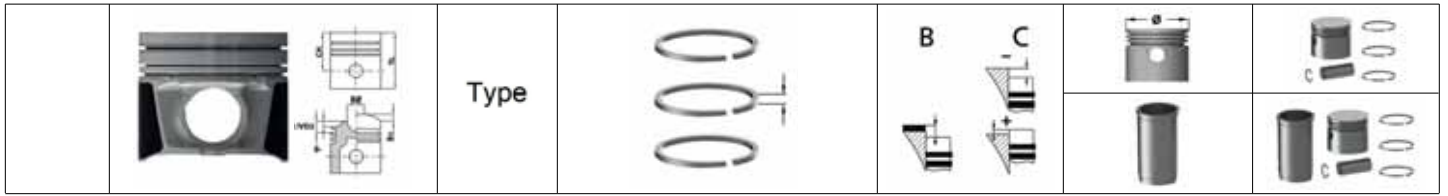
1 Cyl 770cc

77.26 / 28 / 32

D

2 Cyl 1540cc

 11-01970-000 CH 63,600 B- 19,500 BØ 54,000 TL 114,400  34,93x84,10		91-09863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP 5 6,350  P	+0,60/+0,70	Ø 98,480	31-03970-000
 K=112,70 L=207,40 H+F=7,10+1,40 D=121,70	WF			51-05970-000	71-07970-000



95,000

D115	D	1970	3 Cyl	2340cc
D121	D	1972	6 Cyl	4678cc


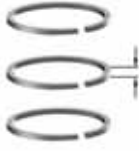
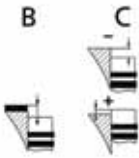

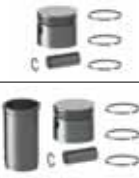



<p>11-01402-000 CH 59,650 B- 23,500 BØ 42,500 TL 101,150</p> <p>32,00x82,50</p>	<p>91-09402-000</p> <p>1 2,500 CrP 2 2,500 P 3 5,500 CrP</p>	<p>+0,46/+0,79</p>	<p>Ø 95,000 Ø 95,400 Ø 95,600</p>	<p>31-03402-000 31-03402-040 31-03402-060</p>

<p>K=99,08 L=187,50</p>	DS			51-65402-000
<p>K=99,60 L=187,50</p>	DS +0,50			51-65402-050
<p>K=99,05 L=187,50 H=6,00 D=100,05</p>	DS			51-65454-000
<p>K=99,50 L=187,50 H=6,00 D=100,50</p>	DS +0,50			51-65454-050
<p>K=100,05 L=187,50 H=6,00 D=101,05</p>	DS +1,00			51-65454-100
<p>K=103,03 L=187,50</p>	DS			51-66020-000

108,000







D110	D		4 Cyl	4760cc	48kW	(68ps)
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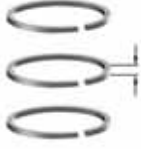






<p>11-02030-000 CH 87,000 B- 23,500 BØ 61,400 TL 141,000</p> <p>40,00x88,00</p>	<p>91-09030-000</p> <p>1 3,000 CrP 2 3,000 P 3 3,000 P 4 6,000 P 5 6,000 P</p>			<p>Ø 108,000</p>	<p>31-04030-000</p>

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

108,000

RTK / TPL	D	6 Cyl	2000cc	140kW	(160ps)
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	<p>11-02235-000 CH 70,650 VD1 0,800 B- 19,060 BØ 64,500 TL 106,650</p>  <p>40,00x89,00</p>	<p>AP</p>	<p>91-09592-000 1 3,000  CR 2 2,500  CR 3 4,000  CR</p>		<p>Ø 108,000</p>	<p>31-04235-000</p>
	<p>K=123,00 L=218,00 H+F=9,05+0,90 D=131,70</p>	<p>WF</p>			<p>51-06095-000</p>	<p>71-08235-000</p>

	<p>Type</p>		<p>B</p> 	<p>C</p> 		
						

91,000

BF 4 L 1011 F Euro 1 D 1998 4 Cyl 2732cc 48-56 kW (65-76ps)

BF 4 L 1011 FT Euro 1 D 1998 4 Cyl 2732cc 46-53 kW (63-72ps)

	<p>11-01694-000 CH 55,200 B- 18,000 BØ 45,000 TL 86,150</p>  <p>30,00x68,00</p>	<p>AP</p> <p>AA=27,60 mm</p>	<p>91-09046-000</p> <p>1 3,000  MoP 2 2,000  P 3 3,000  CrP</p>	<p>(+0,59/+0,69) (+0,69/+0,76) (+0,76/+0,83)</p>	<p>Ø 91,000 Ø 91,500</p>	<p>31-03694-000 31-03694-050</p>
<p>Deutz ve Volvo ile Ortak Motor</p>						
	<p>K=94,00 L=175,50 H=4,55 D=98,85</p>	<p>DF</p>			<p>51-35511-000</p>	<p>71-07515-000</p>


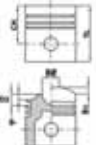
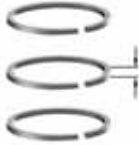










		Type					
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91,480

A 3.152 D 3 Cyl 2503cc 27-35kW (37-48ps)







	11-01831-000 CH 57,200 TL 107,700 31,75x75,30		91-09832-000 1 2,385 CrP 2 2,385 P 3 3,160 P 4 6,335 P 5 6,335 CrP	-0,13/0	Ø 91,480	31-03831-000
Massey-Ferguson, Perkins ve Volvo ile Ortak Motor						

	K=93,67 L=216,00 H=3,81 D=96,70	DF			51-35835-000	71-07831-000
	K=93,90 L=216,00 H=3,81 D=96,70	DF +0,25			51-35835-025	
	K=94,16 L=216,00 H=3,81 D=96,70	DF +0,50			51-35835-050	
	K=93,75 L=216,00 H=3,81 D=96,75	DS			51-65834-000	
	K=94,30 L=216,00 H=3,81 D=96,75	DS +0,50			51-65834-050	
	K=94,75 L=216,00 H=3,81 D=96,75	DS +1,00			51-65834-100	
	K=95,25 L=216,00 H=3,81 D=98,25	DS +1,50			51-65834-150	
	K=95,75 L=216,00 H=3,81 D=98,75	DS +2,00			51-65834-200	

		Type		 		
				 		

92,000







KAD / KAMD43 / TAMD 43 D 2 Cyl 3590cc 169kW (230ps)

 	11-02038-000 CH 66,730 VD1 1,050 VD2 1,030 B- 19,520 BØ 40,020 TL 101,620  35,00x76,00	AP YS	91-09048-000 1 3,000  MoP 2 2,500  MoP 3 4,000  CR		Ø 92,000	31-04038-000
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	K=105,00 L=180,80 H+F=9,00+1,00 D=114,00	WF		O-Ring/Seal 55-50614-000 2 FPM 96,00x3,00 1 FPM 99,50x3,00 1 FPM 102,00x1,60	51-06046-000 52-06046-000	71-08033-000 72-08033-000
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92,000







AQAD 31 A	D	1986	4 Cyl	2400cc	96kW	(130ps)
AQAD 41 A	D	1986	6 Cyl	2400cc	147kW	(200ps)
TAMD 31 A	D		4 Cyl	2400cc	96kW	(131ps)
TAMD 41 A	D		6 Cyl	2400cc	147kW	(200ps)
TMD 31 A	D		4 Cyl	2400cc	74kW	(101ps)
TMD 41 A	D		6 Cyl	2400cc	110kW	(150ps)

 	11-02039-000 CH 66,850 B- 22,000 BØ 40,000 TL 101,660  35,00x76,00	AP YS HA	91-09047-000 1 2,500  Mo 2 2,500  MoP 3 4,000  CR		Ø 92,000	31-04039-000
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	K=105,00 L=180,80 H+F=9,00+1,00 D=114,00	WF		O-Ring/Seal 55-50614-000 2 FPM 96,00x3,00 1 FPM 99,50x3,00 1 FPM 102,00x1,60	51-06046-000 52-06046-000	71-08034-000 72-08034-000
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92,000

MD-TAMD-KAD-KAMD 31 / 32 / 41-44 B 6 Cyl 3598cc 169kW (230ps)

 	11-02094-000 CH 66,660 B- 19,980 BØ 40,000 TL 101,600  35,00x75,87	AP YS	91-09067-000 1 3,500  Mo 2 2,500  MoP 3 3,000  CR		Ø 92,000	31-04094-000
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	K=105,00 L=180,80 H+F=9,00+1,00 D=114,00	WF		O-Ring/Seal 55-50614-000 2 FPM 96,00x3,00 1 FPM 99,50x3,00 1 FPM 102,00x1,60	51-06046-000 52-06046-000	71-07092-000 72-07092-000
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		Type					
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92,010

KAD42A / B / P

D

6 Cyl

3600cc

kW

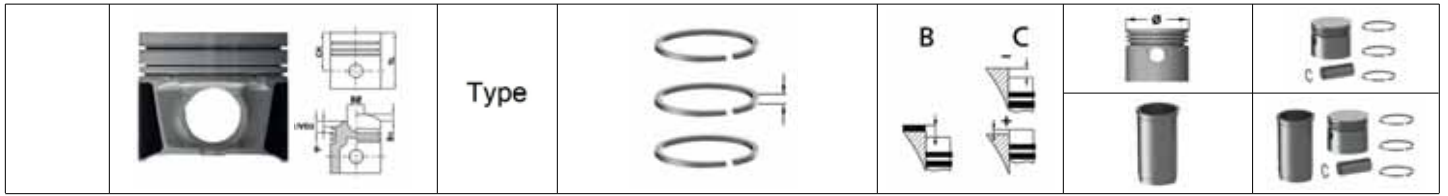
(155ps)

	11-02047-000 CH 66,650 VD1 1,800 B- 19,000 BØ 43,000 TL 101,650 35,00x76,00	AP YS HA	91-09048-000 1 3,000 MoP 2 2,500 MoP 3 4,000 CR		Ø 92,010	31-04047-000
	K=105,00 L=180,80 H+F=9,00+1,00 D=114,00	WF		O-Ring/Seal 55-50614-000 2 FPM 96,00x3,00 1 FPM 99,50x3,00 1 FPM 102,00x1,60	51-06046-000 52-06046-000	71-08037-000 72-08037-000

92,010









AD 31 XD	D	4 Cyl	2400cc	(130ps)
TAMD 31 B	D	4 Cyl	2400cc	(110-130ps)
TAMD 31 D	D	4 Cyl	2400cc	(130ps)
TAMD 41 B	D	6 Cyl	3600cc	(145-200ps)
TAMD 41 D	D	6 Cyl	3600cc	(145ps)

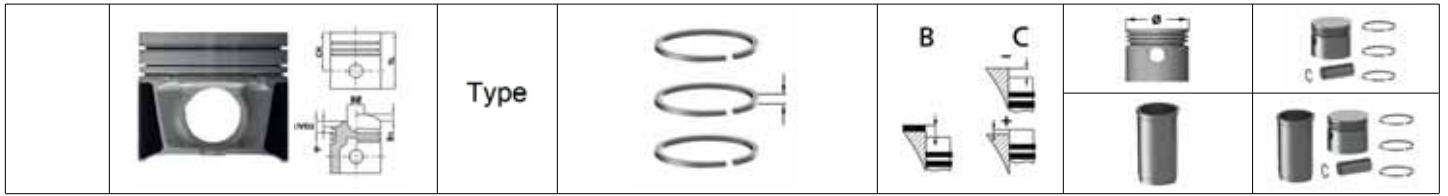
	11-02048-000 CH 66,650 VD1 1,050 B- 19,500 BØ 40,000 TL 101,650 35,00x76,00	AP YS HA	91-09048-000 1 3,000 MoP 2 2,500 MoP 3 4,000 CR		Ø 92,010	31-04048-000
	K=105,00 L=180,80 H+F=9,00+1,00 D=114,00	WF		O-Ring/Seal 55-50614-000 2 FPM 96,00x3,00 1 FPM 99,50x3,00 1 FPM 102,00x1,60	51-06046-000 52-06046-000	71-08038-000 72-08038-000



95,250






D 50 A	D	1965	1971	6 Cyl	5100cc	74-79kW	(100-107ps)
D 50 B	D	1970	1978	6 Cyl	5100cc	64-86kW	(87-117ps)
D50A	D	1968	1970	6 Cyl	5100cc	74-79kW	(100-107ps)
D50B	D	1972	1975	6 Cyl	5100cc	64-86kW	(87-117ps)
TD 50 A	D	1965	1975	6 Cyl	5100cc	81-108kW	(110-147ps)
TD 50 B	D	1965	1978	6 Cyl	5100cc	108-121kW	(147-165ps)
TD 50A	D	1969	1975	6 Cyl	5100cc	81-108kW	(110-147ps)
TD 50B	D			6 Cyl	5100cc	108-121kW	(147-165ps)

 <p>11-02050-000 CH 79,400 B- 23,900 BØ 50,000 TL 124,400</p>  <p>40,00x77,30</p>	AP	<p>91-09050-000</p> <p>1 2,385  CR</p> <p>2 3,160  P</p> <p>3 3,160  P</p> <p>4 4,747  CR</p>		Ø 95,250	31-04050-000
 <p>K=107,95 L=234,50 H+F=11,61+0,73 D=117,00</p>	WF-PH			51-06040-000	71-08053-000
 <p>K=107,95 L=234,50 H+F=11,61+0,73 D=117,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50602-000</p> <p>1 FPM 103,50x1,60</p> <p>2 EPDM 106,50x5,70</p>	<p>51-06050-000</p> <p>52-06050-000</p>	<p>71-08050-000</p> <p>72-08050-000</p>



98,000


TAD 620 VE Euro2 D 4 Cyl 5703cc 155kW (211ps)

 11-01717-000 CH 50,650 B- 17,500 BØ 61,060 TL 90,650  38,00x76,00	AP	91-09717-000 1 3,000  CK 2 2,030  P 3 3,000  CR	Ø 98,000	31-03717-000
	Volvo ve Deutz Ortak Motor			

	K=101,00 L=188,00 H=4,50 D=105,00	DF		51-36038-000	71-07117-000
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	K=101,50 L=188,00 H=5,00 D=105,00	DF +0,50		51-36038-050	
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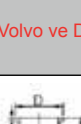
	K=101,00 L=193,00 H=4,50 D=105,00	DF		51-36039-000	71-07137-000
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	K=101,50 L=193,00 H=5,00 D=105,00	DF +0,50		51-36039-050	
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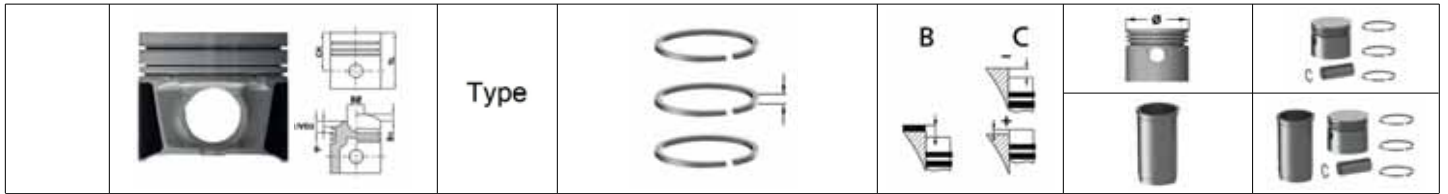
98,000

TAD 660 VE Euro3 D 2006 6 Cyl 5703cc 147kW (200ps)

 11-01718-000 CH 55,150 B- 17,310 BØ 61,500 TL 90,650  40,00x80,00	AP	91-09717-000 1 3,000  CK 2 2,030  P 3 3,000  CR	Ø 98,000	31-03718-000
	Volvo ve Deutz Ortak Motor			

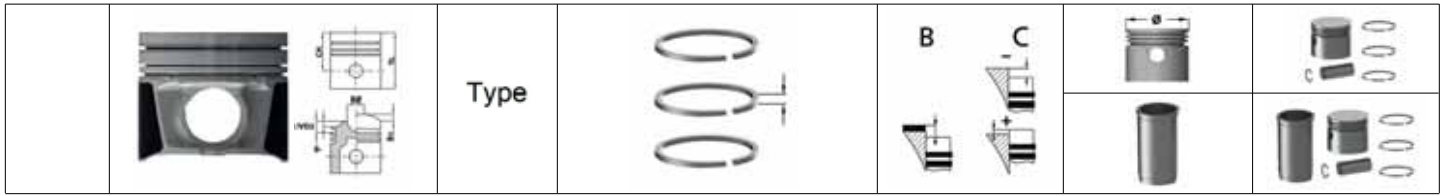
	K=101,00 L=188,00 H=4,50 D=105,00	DF		51-36038-000	71-07138-000
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	K=101,50 L=188,00 H=5,00 D=105,00	DF +0,50		51-36038-050	
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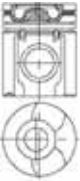




98,430	
TAMD 60 C	D 1978 1985 6 Cyl 5480cc 108-184kW (147-250ps)
TD 60 B / C / DG	D 1978 1987 6 Cyl 5480cc 86-132kW (117-180ps)
TD 61 B / F / FB / G / GA / GB / GC / GE / GS	D 1985 6 Cyl 5480cc 108-153kW (147-208ps)

<p>11-02051-000 CH 79,400 B- 21,800 BØ 57,000 TL 124,400</p> <p>40,00x77,30</p>	AP	<p>91-09051-000</p> <p>1 2,385 CrP 2 3,160 CrP 3 4,747 CrP</p>	+0,05/+0,55	Ø 98,430	31-04051-000
<p>K=109,92 L=237,00 H+F=9,65+3,50 D=119,10 R=8,50</p>	WF		O-Ring/Seal 55-50609-000 1 FPM 109,00x5,80 2 EPDM 109,00x5,80 1 FPM 104,00x1,50	51-06035-000 52-06035-000	71-08040-000 72-08040-000
<p>K=109,92 L=234,50 H+F=11,61+0,73 D=119,10</p>	WF-PH		O-Ring/Seal 55-50608-000 1 FPM 104,00x1,50 1 EPDM 109,00x5,80 1 FPM 109,00x5,80	51-06041-000 52-06041-000	71-08041-000 72-08041-000
<p>K=109,92 L=237,00 H+F=9,65+3,50 D=119,10 R=20,00</p>	WF-PH			51-06042-000	71-08042-000
<p>K=109,92 L=234,50 H+F=11,61+0,73 D=119,10</p>	WF		O-Ring/Seal 55-50608-000 1 FPM 104,00x1,50 1 EPDM 109,00x5,80 1 FPM 109,00x5,80	51-06051-000 52-06051-000	71-08051-000 72-08051-000
<p>K=109,92 L=237,00 H+F=9,65+3,50 D=119,10 R=20,00</p>	WF		O-Ring/Seal 55-50609-000 1 FPM 109,00x5,80 2 EPDM 109,00x5,80 1 FPM 104,00x1,50	51-06081-000 52-06081-000	71-07045-000 72-07045-000



98,430

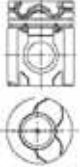




TD 63 E / ES / KDE Euro 1	D	1991	6 Cyl	5480cc	88-154kW	(120-209ps)
TD 63 KBE Euro 1	D	1994	6 Cyl	5480cc	115-118kW	(156-160ps)
TD 63 KDE Euro 1	D	1993	6 Cyl	5480cc	88-154kW	(120-209ps)
TD 63 KEE Euro 1	D	1996	6 Cyl	5480cc	105kW	(143ps)
TD 63 KFE Euro 1	D	1995	6 Cyl	5480cc	120-122kW	(163-166ps)
TD 63 KGE Euro 1	D	1999	2002	6 Cyl	5480cc	94kW (128ps)

 11-02053-000 CH 79,400 VD1 0,800 B- 20,300 BØ 53,100 TL 124,400  40,00x77,30	AP	91-09053-000 1 3,500  Mo 2 2,500  Mo 3 3,500  CR		Ø 98,430	31-04053-000
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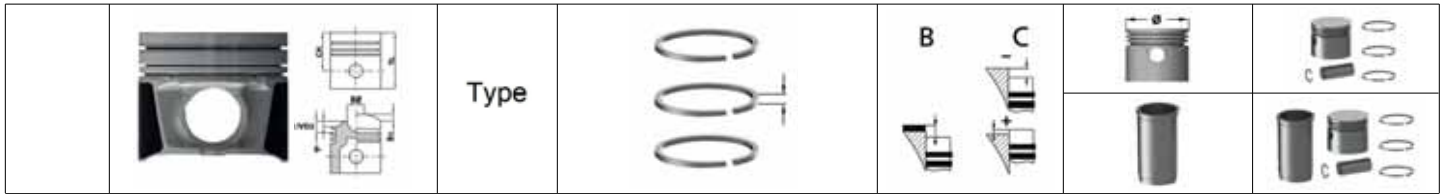
 K=109,92 L=237,00 H+F=9,65+3,50 D=119,10 R=8,50	WF		O-Ring/Seal 55-50609-000 1 FPM 109,00x5,80 2 EPDM 109,00x5,80 1 FPM 104,00x1,50	51-06035-000 52-06035-000	71-08060-000 72-08060-000
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98,430

D 6 A 180 / A 210 / A 230 / A 250 Euro 2	D	1991	6 Cyl	5480cc	132-184kW	(180-250ps)
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 11-02054-000 CH 79,400 VD1 0,800 B- 19,600 BØ 53,000 TL 124,400  40,00x77,30	AP HA	91-09053-000 1 3,500  Mo 2 2,500  Mo 3 3,500  CR		Ø 98,430	31-04054-000
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 K=110,00 L=234,50 H+F=9,41+0,93 D=119,10	WF		O-Ring/Seal 55-50609-000 1 FPM 109,00x5,80 2 EPDM 109,00x5,80 1 FPM 104,00x1,50	51-06037-000 52-06037-000	71-08066-000 72-08066-000
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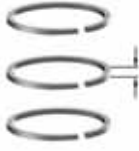
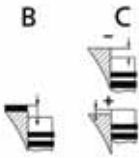


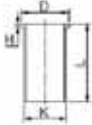
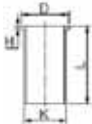

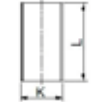


98,480

4236	D	1975	1986	4 Cyl	3864cc	48-60kW	(59-80ps)
D 39 C	D	1975	1986	4 Cyl	3864cc	59kW	(80ps)

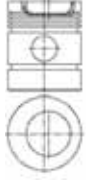






<p>11-01848-000 CH 70,050 B- 20,150 BØ 61,000 TL 120,850</p> <p>34,93x84,10</p>	AP	<p>91-09867-000</p> <p>1 2,385 CrP</p> <p>2 2,385 P</p> <p>3 4,747 CR</p>	+0,28/+0,48	Ø 98,480	31-03848-000
	CP				
Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RV) ve Volvo ile Ortak Motor					

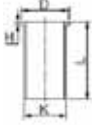


<p>K=104,21 L=227,00 H=3,83 D=107,38</p>	DF			51-35842-000	71-07858-000
<p>K=103,21 L=227,30 H+F=3,81+1,00 D=106,36</p>	DF			51-35844-000	71-07848-000
<p>K=104,21 L=227,30 H+F=3,81+1,00 D=107,36</p>	DF +1,00			51-35844-100	
<p>K=103,28 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS			51-65840-000	
<p>K=103,55 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,25			51-65840-025	
<p>K=103,80 L=227,30 H+F=3,85+0,90 D=106,40</p>	DS +0,50			51-65840-050	
<p>K=104,30 L=227,30 H+F=3,85+0,90 D=107,40</p>	DS +1,00			51-65840-100	
<p>K=104,80 L=227,30 H+F=5,00+0,90 D=108,00</p>	DS +1,50			51-65840-150	

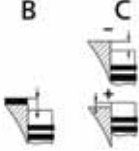


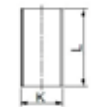
		Type			
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100
	K=103,28 L=229,00 H+F= +	DS			51-65845-000


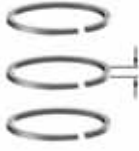
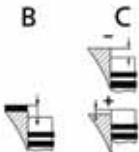

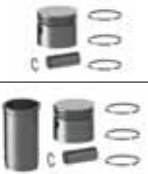
98,480

4236	D	1975	1986	4 Cyl	3864cc	48-60kW	(59-80ps)
D 39 C	D	1975	1986	4 Cyl	3864cc	59kW	(80ps)

	11-01863-000 CH 70,250 B- 20,280 BØ 60,500 TL 120,900  34,93x84,10		91-09863-000 1 2,385  CrP 2 2,385  P 3 2,385  P 4 6,350  CrP 5 6,350  P		Ø 98,480	31-03863-000
Ihc/Case, Massey-Ferguson, Perkins, Renault Trucks (RVI) ve Volvo ile Ortak Motor						






	K=104,21 L=227,00 H=3,83 D=107,38	DF			51-35842-000	71-07864-000
	K=103,21 L=227,30 H+F=3,81+1,00 D=106,36	DF			51-35844-000	71-07863-000
	K=104,21 L=227,30 H+F=3,81+1,00 D=107,36	DF +1,00			51-35844-100	

		Type				
	K=103,28 L=227,30 H+F=3,85+0,90 D=106,40	DS			51-65840-000	
	K=103,55 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,25			51-65840-025	
	K=103,80 L=227,30 H+F=3,85+0,90 D=106,40	DS +0,50			51-65840-050	
	K=104,30 L=227,30 H+F=3,85+0,90 D=107,40	DS +1,00			51-65840-100	
	K=104,80 L=227,30 H+F=5,00+0,90 D=108,00	DS +1,50			51-65840-150	
	K=105,80 L=227,30 H+F=5,00+0,90 D=109,00	DS +2,50			51-65840-250	
	K=104,26 L=227,00 H=3,81 D=107,38	DS			51-65841-000	
	K=104,75 L=227,00 H=3,81 D=107,38	DS +0,50			51-65841-050	
	K=105,25 L=227,00 H=5,00 D=108,35	DS +1,00			51-65841-100	
	K=103,28 L=229,00 H+F= +	DS			51-65845-000	

	Type				
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102,000

4B 3.9 C Euro 2	D	1996	4 Cyl	3900cc	55-60kW	(75-82ps)
6B 5.9 C Euro 2	D	1996	6 Cyl	5883cc	86-132kW	(115-177ps)

	11-01363-000 CH 71,560 B- 17,700 BØ 59,100 TL 105,360	AP	91-09370-000 1 3,000  CR 2 2,350  P 3 4,000  CrP		Ø 102,000 Ø 102,500	31-03363-000 31-03363-050
	40,00x75,68					
Cummins ve Volvo ile Ortak Motor						






103,000

D4-300 TA/KA/WJ/I-E / I--F	D	2006	4 Cyl	3700cc	221kW	(300ps)
D6-435 TA/KA/D-E/D-F	D	2006	6 Cyl	5499cc	320kW	(435ps)
D6-435I WJ/SC-E/SC-F	D	2006	6 Cyl	5499cc	320kW	(435ps)

	11-01162-000 CH 62,040 VD1 1,010 B- 18,450 BØ 54,080 TL 100,000	AP YS	91-09042-000 1 3,000  CK 2 2,500  CR 3 3,000  CK		Ø 103,000	31-03162-000
	43,00x83,90					






103,000


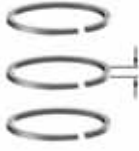
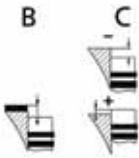

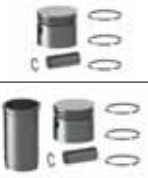
Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston			Cyl	cc	kW	(ps)
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	11-01162-001 CH 61,840 VD1 1,010 B- 18,450 BØ 54,080 TL 99,800	AP YS	91-09042-000 1 3,000  CK 2 2,500  CR 3 3,000  CK		Ø 103,000	31-03162-001
	43,00x83,90					

103,000






D4-225 / 260	D					
D6-330 / 350 / 370	D					

	11-02035-000 CH 62,000 B- 18,800 BØ 51,700 TL 100,000	AP YS	91-09042-000 1 3,000  CK 2 2,500  CR 3 3,000  CK		Ø 103,000	31-04035-000
	43,00x83,00					

	Type				
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103,000

Strok Boyu 0,20mm Kisa Piston / Stroke Length 0,20mm Shorter Piston D 6 Cyl 5500cc 243-272kW (330-369ps)

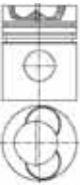




	11-02035-001 CH 61,800 B- 18,800 BØ 51,700 TL 99,800  43,00x83,00	AP YS	91-09042-000 1 3,000  CK 2 2,500  CR 3 3,000  CK		Ø 103,000	31-04035-001
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104,775

TD 71ACE / AG / AGP / AP / APB / AW / F / FQ / FQK / FS / FSO / FSQ D 1985 6 Cyl 6730cc 166-184kW (226-250ps)

TD 71E / FD / G D 1985 6 Cyl 6730cc 137-180kW (186-245ps)

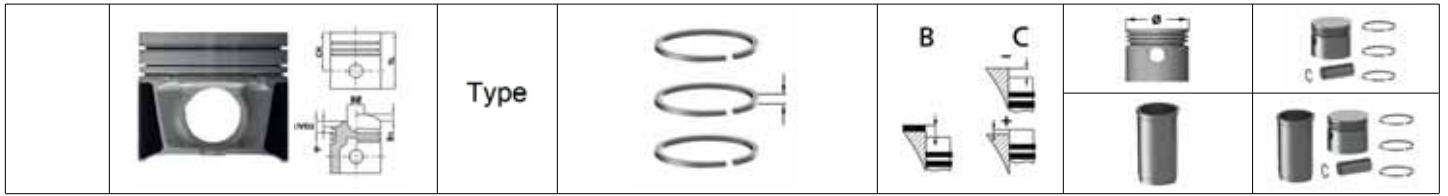
TD F71F D 1985 6 Cyl 6730cc 169kW (230ps)

	11-01154-000 CH 88,450 VD1 1,000 B- 20,950 BØ 65,000 TL 141,050  45,00x85,80	AP YS	91-09058-000 1 2,385  CR 2 3,160  P 3 4,747  CR	+0,20/+0,70	Ø 104,775	31-03154-000
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	K=116,95 L=259,50 H+F=9,66+3,60 D=127,00	WF-PH		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06048-000 52-06048-000	71-07150-000 72-07150-000
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	K=117,00 L=259,70 H+F=9,66+3,60 D=129,40	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06054-000 52-06054-000	71-07151-000 72-07151-000
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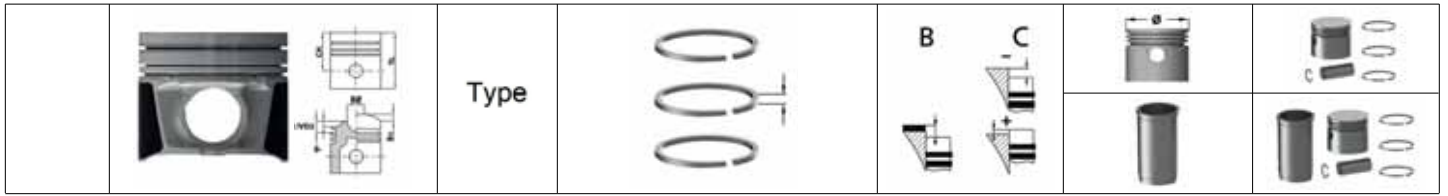
	K=116,95 L=259,50 H+F=9,66+3,60 D=127,00 R=16,00	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06058-000 52-06058-000	71-07154-000 72-07154-000
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104,775

TD 70 F / FC / FS / G	D	1973	1988	6 Cyl	6730cc	138-180kW	(188-245ps)
TD 70 GG	D	1983	1986	6 Cyl	6730cc	100-140kW	(136-190ps)
TD 70F	D	1979	1985	6 Cyl	6730cc	162kW	(220ps)
TD 70FS	D	1979	1985	6 Cyl	6730cc	180kW	(245ps)
TD 70G	D	1979	1985	6 Cyl	6730cc	138-156kW	(188-212ps)
TD 71 A	D	1985		6 Cyl	6730cc	169kW	(230ps)
TD 71 GE	D			6 Cyl	6730cc	kW	(ps)
TD 71A	D			6 Cyl	6730cc	169kW	(230ps)
TID 70 GG	D	1986	1991	6 Cyl	6730cc	116-154kW	(158-209ps)

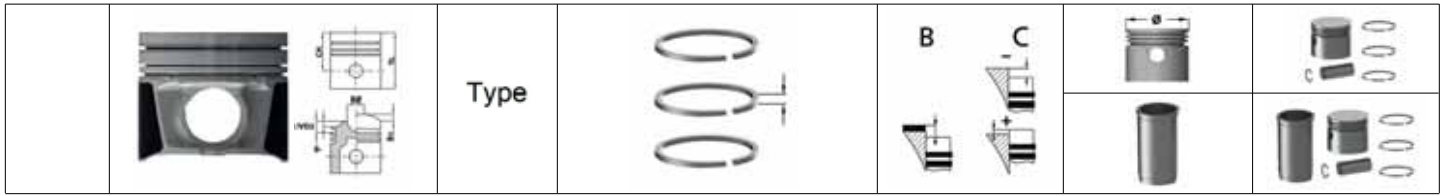
<p>11-01158-000 CH 88,450 VD1 1,000 B- 26,150 BØ 60,000 TL 141,050</p> <p>45,00x85,80</p>	<p>AP YS</p>	<p>91-49057-000</p> <p>1 2,385 CR 2 3,160 P 3 3,160 P 4 4,747 CR</p>		<p>Ø 104,775</p>	<p>31-03158-000</p>
<p>K=116,95 L=257,00 H+F=11,66+0,73 D=127,00 R=17,00</p>	<p>WF</p>		<p>O-Ring/Seal 55-50618-000 1 FPM 115,70x5,70 1 EPDM 115,70x5,70 1 FPM 114,00x1,60</p>	<p>51-06057-000 52-06057-000</p>	<p>71-07161-000 72-07161-000</p>



104,775

TD 71 ACE / AG / AGP / AP / AW / F / FQ / FQK / FS / FSO / FSQ	D	1985	6 Cyl	6730cc	166-184kW	(226-250ps)
TD 71 APB	D	1985	6 Cyl	6730cc	169kW	(230ps)
TD 71 E / FD / G	D	1985	6 Cyl	6730cc	137-180kW	(186-245ps)
TD 71 G	D	1985	6 Cyl	6730cc	137-180kW	(186-245ps)
TD 71 G 285	D	1987	6 Cyl	6730cc	148kW	(201ps)
TD 71 GA	D	1986	6 Cyl	6730cc	157kW	(213ps)
TD F 71 F	D	1985	6 Cyl	6730cc	169kW	(230ps)

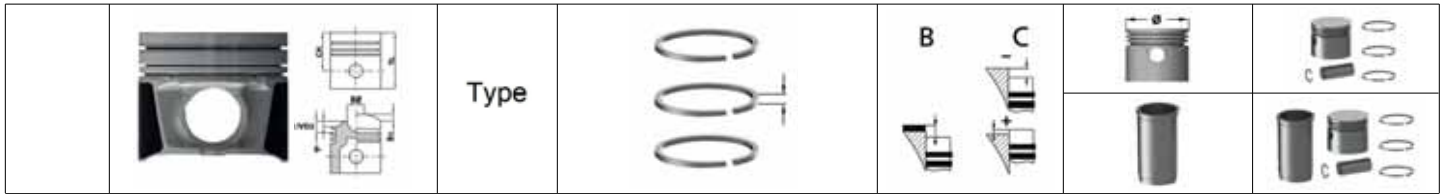
<p>11-01161-000 CH 88,450 VD1 1,000 B- 26,300 BØ 60,000 TL 141,050</p> <p>45,00x85,80</p>	<p>AP YS</p>	<p>91-09058-000 1 2,385 CR 2 3,160 P 3 4,747 CR</p>	<p>+0,70</p>	<p>Ø 104,775</p>	<p>31-03161-000</p>
<p>K=117,00 L=259,70 H+F=9,66+3,60 D=129,40 R=18,00</p>	<p>WF</p>		<p>O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60</p>	<p>51-06036-000 52-06036-000</p>	<p>71-07094-000 72-07094-000</p>
<p>K=117,00 L=259,70 H+F=9,66+3,60 D=129,40</p>	<p>WF</p>		<p>O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60</p>	<p>51-06054-000 52-06054-000</p>	<p>71-07103-000 72-07103-000</p>
<p>K=116,95 L=259,50 H+F=9,66+3,60 D=127,00 R=16,00</p>	<p>WF</p>		<p>O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60</p>	<p>51-06058-000 52-06058-000</p>	<p>71-07102-000 72-07102-000</p>



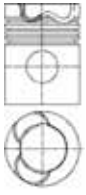








104,775

TD 73 E / EK / EA / EB / ES Euro 1	D	1990	6 Cyl	6730cc	160-191kW	(218-260ps)
TD 73 K	D		6 Cyl	6730cc	169kW	(230ps)
TD 73 KAE Euro 1	D	1991	6 Cyl	6730cc	150kW	(204ps)
TD 73 KCE Euro 1	D	1991	6 Cyl	6730cc	174-190kW	(233-255ps)
TD 73 KDE Euro 1	D	1991	6 Cyl	6730cc	130-153kW	(177-208ps)
TD 73 KE Euro 1	D	1991	6 Cyl	6730cc	150kW	(204ps)
TD 73 KFE Euro 1	D	1995	6 Cyl	6730cc	173-190kW	(235-258ps)
TD 73 KGE Euro 1	D	1996	6 Cyl	6730cc	135kW	(184ps)
TD 73 KHE Euro 1	D	1996	6 Cyl	6730cc	155kW	(211ps)

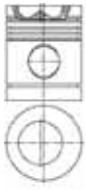






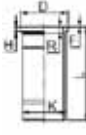

<p>11-02040-000 CH 88,450 VD1 2,050 VD2 3,050 B- 20,100 BØ 61,000 TL 132,450</p> <p>45,00x82,00</p>	AP	<p>91-09040-000</p> <p>1 3,000 Mo 2 2,500 3 4,000 CR</p>		Ø 104,775	31-04040-000
<p>K=117,00 L=259,70 H+F=9,66+3,60 D=129,40</p>	WF		<p>O-Ring/Seal</p> <p>55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60</p>	<p>51-06054-000 52-06054-000</p>	<p>71-08036-000 72-08036-000</p>
<p>K=116,95 L=259,50 H+F=9,66+3,60 D=127,00 R=13,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60</p>	<p>51-06061-000 52-06061-000</p>	<p>71-08035-000 72-08035-000</p>

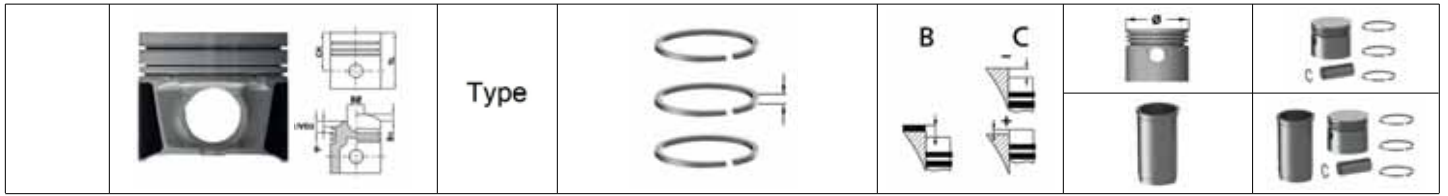


104,775						
TD 71 ACE / AG / AGP / AP / AW / F / FQ / FQK / FS / FSO / FSQ	D	1985	6 Cyl	6730cc	169-184kW	(226-250ps)
TD 71 E / FD / G	D	1985	6 Cyl	6730cc	137-180kW	(186-245ps)
TD 71 F	D	1985	1994	6 Cyl	6730cc	166-173kW (226-235ps)
TD 71 G 285	D	1987	6 Cyl	6730cc	148kW	(201ps)
TD 71 GA	D	1986	6 Cyl	6730cc	157kW	(213ps)
TDF 71 F	D	1985	6 Cyl	6730cc	169kW	(230ps)

	11-02056-000 CH 88,450 VD1 1,000 B- 20,950 BØ 65,000 TL 141,050  45,00x85,80	AP YS	91-09056-000 1 2,385  CrP 2 3,160  P 3 3,160  P 4 4,747  CrP		Ø 104,775	31-04056-000
	K=116,95 L=259,50 H+F=9,66+3,60 D=127,00	WF-PH		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06048-000 52-06048-000	71-07158-000 72-07158-000
	K=116,95 L=259,50 H+F=9,66+3,60 D=127,00 R=16,00	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06058-000 52-06058-000	71-08056-000 72-08056-000
	K=116,95 L=259,50 H+F=9,66+3,60 D=127,00 R=13,00	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06061-000 52-06061-000	71-08043-000 72-08043-000

104,775						
TD 70 A / B / C	D	1963	1976	6 Cyl	6730cc	128-158kW (175-215ps)
TD 70A	D	1965	1970	6 Cyl	6730cc	128-136kW (175-185ps)

	11-02057-000 CH 88,450 B- 26,150 BØ 60,000 TL 141,050  45,00x85,80	AP	91-09057-000 1 2,385  CR 2 3,160  P 3 3,160  P 4 4,747  CR 5 4,747  P		Ø 104,775	31-04057-000
	K=116,95 L=257,00 H+F=11,66+0,73 D=127,00 R=18,00	WF-PH		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06047-000 52-06047-000	71-08047-000 78-08047-000
	K=116,95 L=257,00 H+F=11,66+0,73 D=127,00 R=17,00	WF		O-Ring/Seal 55-50618-000 1 FPM 115,70x5,70 1 EPDM 115,70x5,70 1 FPM 114,00x1,60	51-06057-000 52-06057-000	71-08057-000 72-08057-000


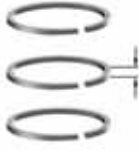
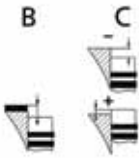

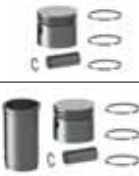


104,775							
TD 70 E / ES / H / HA	D	1974	6 Cyl	6730cc	121-166kW	(165-225ps)	
TD 70E	D	1974	1978	6 Cyl	6730cc	155kW	(210ps)
TD 70ES	D	1974	6 Cyl	6730cc	155-166kW	(210-225ps)	
TD 70H	D	1979	1986	6 Cyl	6730cc	121-157kW	(165-213ps)

<p>11-02058-000 CH 88,450 VD1 1,000 B- 26,150 BØ 60,000 TL 141,050</p> <p>45,00x85,80</p>	AP	<p>91-09056-000</p> <p>1 2,385 CrP</p> <p>2 3,160 P</p> <p>3 3,160 P</p> <p>4 4,747 CrP</p>		Ø 104,775	31-04058-000
<p>K=116,95 L=257,00 H+F=11,66+0,73 D=127,00 R=18,00</p>	WF-PH		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06047-000 52-06047-000	71-08048-000 72-08048-000
<p>K=116,95 L=257,00 H+F=11,66+0,73 D=127,00 R=17,00</p>	WF		O-Ring/Seal 55-50618-000 1 FPM 115,70x5,70 1 EPDM 115,70x5,70 1 FPM 114,00x1,60	51-06057-000 52-06057-000	71-08058-000 72-08058-000
<p>K=116,95 L=259,50 H+F=9,66+3,60 D=127,00 R=16,00</p>	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06058-000 52-06058-000	71-08061-000 72-08061-000








104,775							
D 7 A 230 / A 260 / A 285 / B 230 / B 260 Euro 2	D	1993	6 Cyl	6730cc	169-210kW	(230-285ps)	

<p>11-02087-000 CH 88,550 VD1 2,150 VD2 3,150 B- 20,200 BØ 61,000 TL 132,550</p> <p>45,00x82,00</p>	AP	<p>91-09087-000</p> <p>1 3,500 Mo</p> <p>2 2,500 P</p> <p>3 3,500 CR</p>		Ø 104,775	31-04087-000
<p>K=117,00 L=256,80 H+F=9,40+0,95 D=127,00</p>	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06053-000 52-06053-000	71-08097-000 72-08097-000
<p>K=117,00 L=259,70 H+F=9,66+3,60 D=129,40</p>	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06054-000 52-06054-000	71-08095-000 72-08095-000
<p>K=117,00 L=257,00 H+F=9,40+0,70 D=129,40</p>	WF		O-Ring/Seal 55-50610-000 2 EPDM 115,70x5,70 1 FPM 115,70x5,70 1 FPM 114,00x1,60	51-06056-000 52-06056-000	71-08087-000 72-08087-000

	Type				
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




105,570

D 42 A D 1972 1983 4 Cyl 4200cc 59kW (80ps)

	<p>11-02065-000 CH 84,100 B- 23,100 BØ 54,500 TL 135,100</p>  42,00x88,50		<p>91-09066-000 1 2,385  CR 2 3,160  P 3 3,160  P 4 4,747  CR</p>		<p>Ø 105,570</p>	<p>31-04065-000</p>
	<p>K=117,95 L=245,00 H+F=14,10+0,70 D=127,50</p>	WF		<p>O-Ring/Seal 55-50603-000 2 FPM 117,60x4,40</p>	<p>51-06069-000 52-06069-000</p>	<p>71-08084-000 72-08084-000</p>








105,570

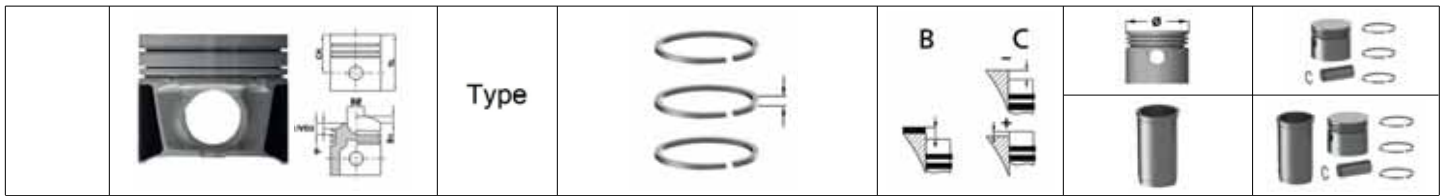
TD 42 D 1976 4 Cyl 4200cc kW (ps)

	<p>11-02066-000 CH 84,100 B- 24,850 BØ 54,600 TL 135,100</p>  42,00x87,00		<p>91-09066-000 1 2,385  CR 2 3,160  P 3 3,160  P 4 4,747  CR</p>		<p>Ø 105,570</p>	<p>31-04066-000</p>
	<p>K=117,95 L=245,00 H+F=14,10+0,70 D=127,50</p>	WF		<p>O-Ring/Seal 55-50603-000 2 FPM 117,60x4,40</p>	<p>51-06069-000 52-06069-000</p>	<p>71-08085-000 72-08085-000</p>

105,570







D 42 A D 1972 1983 4 Cyl 4200cc

	<p>11-02067-000 CH 84,100 B- 23,100 BØ 54,600 TL 135,100</p>  40,00x88,50		<p>91-09066-000 1 2,385  CR 2 3,160  P 3 3,160  P 4 4,747  CR</p>		<p>Ø 105,570</p>	<p>31-04067-000</p>
	<p>K=117,95 L=245,00 H+F=14,10+0,70 D=127,50</p>	WF		<p>O-Ring/Seal 55-50603-000 2 FPM 117,60x4,40</p>	<p>51-06069-000 52-06069-000</p>	<p>71-08080-000 72-08080-000</p>



105,570

TD 42 A D 1976 4 Cyl 4200cc 54kW (73ps)

 <p>11-02069-000 CH 84,100 B- 24,850 BØ 54,600 TL 135,100</p>  42,00x87,00	AP	91-09066-000 1 2,385  CR 2 3,160  P 3 3,160  P 4 4,747  CR		Ø 105,570	31-04069-000
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 <p>K=117,95 L=245,00 H+F=14,10+0,70 D=127,50</p>	WF		O-Ring/Seal 55-50603-000 2 FPM 117,60x4,40	51-06069-000 52-06069-000	71-08085-000 72-08085-000
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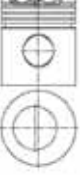





105,570

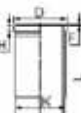
TD 45 B D 1980 4 Cyl 4500cc 66-85kW (90-116ps)

TD 45 B EM D 1985 2000 4 Cyl 4500cc 83kW (113ps)

TD 45 E D 1991 4 Cyl 4500cc 84-92kW (114-125ps)






TD 45 EM D 1985 4 Cyl 4500cc 85kW (116ps)

 <p>11-02070-000 CH 80,100 B- 19,700 BØ 65,000 TL 131,100</p>  42,00x87,00	AP	91-09066-000 1 2,385  CR 2 3,160  P 3 3,160  P 4 4,747  CR		Ø 105,570	31-04070-000
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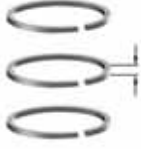
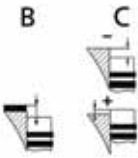


 <p>K=117,95 L=245,00 H+F=14,10+0,70 D=127,50</p>	WF		O-Ring/Seal 55-50603-000 2 FPM 117,60x4,40	51-06069-000 52-06069-000	71-08063-000 72-08063-000
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107,000

D 7 C 215 / C 250 / C 275 / C 290 / C 310 Euro 2 D 1998 6 Cyl 7280cc 158-228kW (215-310ps)






 <p>11-02062-000 CH 88,450 VD1 2,100 VD2 3,100 B- 20,200 BØ 61,000 TL 134,450</p>  47,00x85,50	AP YS	91-09062-000 1 3,500  CKP 2 2,500  3 3,500  CR		Ø 107,000	31-04062-000
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 <p>K=117,00 L=257,00 H+F=9,40+0,70 D=129,40</p>	WF		O-Ring/Seal 55-50601-000 2 FPM 115,80x5,80 1 FPM 115,80x5,80 1 FPM 114,00x1,60	51-06055-000 52-06055-000	71-08065-000 72-08065-000
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	Type				
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108,000






BF 4 M 1013 Euro 1 D 1999 4 Cyl 4764cc 63-93 kW (85-127ps)

	11-01698-000 CH 71,150 B- 16,600 BØ 71,000 TL 108,000	AP	91-09045-000 1 3,000  CK 2 2,000  P 3 3,500  CR	1 Centik conta ile (+0,28/+0,53) 2 Centik conta ile (+0,54/+0,63) 3 Centik conta ile (+0,64/+0,75)	Ø 108,000	31-03698-000
 42,00x86,00						
Deutz ve Volvo ile Ortak Motor						

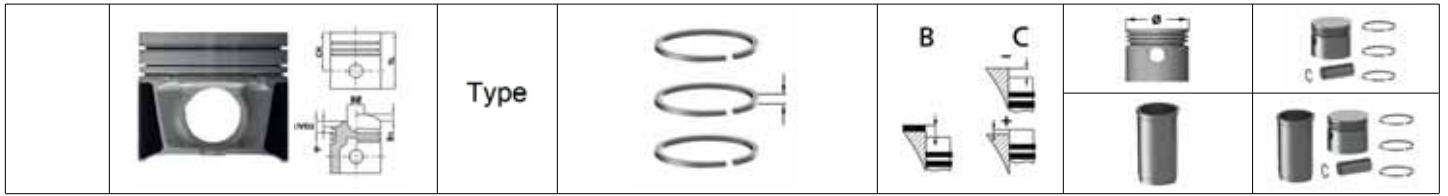
	K=120,00 L=229,00 H+F=9,00+1,10 D=128,50	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-05387-000 52-05387-000	71-08067-000 72-08067-000
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108,000

D 7 E 240 / 280 / 290 / 320 / 360 Euro 4/5 D 6 Cyl 7146cc 177-235kW (240-320ps)

	11-02036-000 CH 70,900 B- 19,600 BØ 64,500 TL 107,800	AP YS	91-09045-000 1 3,000  CK 2 2,000  P 3 3,500  CR		Ø 108,000	31-04036-000
 45,00x86,00						
Deutz, Renault Trucks (RVI) ve Volvo ile Ortak Motor						

	K=120,00 L=228,00 H=8,07 D=131,70	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06065-000 52-06065-000	71-08031-000 72-08031-000
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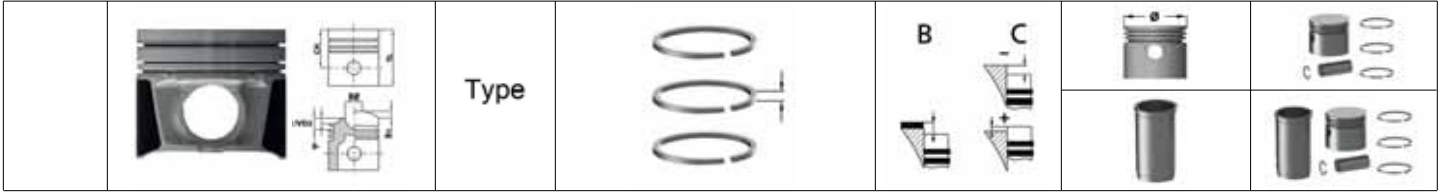
108,000						
D 5 A-B TA Euro 2	D	4 Cyl	4764cc	92-100kW	(125-136ps)	
D 5 A-T Euro 2	D	4 Cyl	4764cc	72-95kW	(98-129ps)	
D 5 A-TA Euro 2	D	4 Cyl	4764cc	89-118kW	(121-160ps)	
D 7 A-B TA	D	6 Cyl	7146cc	130-174kW	(177-237ps)	
D 7 A-T	D	6 Cyl	7146cc	108-129kW	(147-175ps)	

<p>11-02037-000 CH 71,100 B- 19,920 BØ 63,000 TL 108,000</p> <p>42,00x86,00</p>	AP	<p>91-09045-000</p> <p>1 3,000 CK 2 2,000 P 3 3,500 CR</p>		Ø 108,000	31-04037-000
Deutz ve Volvo ile Ortak Motor					

<p>K=120,00 L=229,00 H+F=9,00+1,10 D=128,50</p>	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-05387-000 52-05387-000	71-08069-000 72-08069-000
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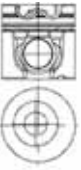




108,000						
TAD 550 GE Euro 2	D	4 Cyl	4760cc	76-93kW	(103-127ps)	
TAD 551 GE Euro 2	D	4 Cyl	4760cc	89-111kW	(121-152ps)	
TAD 750 GE	D	6 Cyl	7150cc	114-146kW	(155-199ps)	
TAD 750 VE Euro 3	D	6 Cyl	7150cc	170-200kW	(231-272ps)	
TAD 751 GE	D	6 Cyl	7150cc	132-166kW	(180-226ps)	
TAD 760 VE Euro 3	D	6 Cyl	7150cc	181kW	(246ps)	

<p>11-02044-000 CH 71,100 B- 19,600 BØ 64,000 TL 108,000</p> <p>42,00x86,00</p>	AP	<p>91-09045-000</p> <p>1 3,000 CK 2 2,000 P 3 3,500 CR</p>	Deutz ve Volvo Ortak Motot	Ø 108,000	31-04044-000
<p>K=120,00 L=229,00 H+F=9,00+1,10 D=128,50</p>	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06067-000 52-06067-000	71-07153-000 72-07153-000



108,000

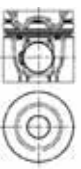




BF 4 M 1013 E Euro 2	D	1998	4 Cyl	4764cc	71-95kW	(97-129ps)
D 7 D EAE2 Euro 2	D		6 Cyl	7146cc	143kW	(194ps)
D 7 D ECE2 Euro 2	D		6 Cyl	7146cc	143kW	(194ps)
D 7 D EEE2 Euro 2	D		6 Cyl	7146cc	125kW	(170ps)
D 7 D LAE2 Euro 2	D	1986	6 Cyl	7146cc	165kW	(224ps)
D 7 D LBE2 Euro 2	D	2003 2007	6 Cyl	7146cc	155kW	(210ps)

 <p>11-02045-000 CH 71,100 B- 19,600 BØ 64,000 TL 108,000</p>  <p>42,00x86,00</p>	AP	<p>91-09045-000</p> <p>1 3,000  CK</p> <p>2 2,000  P</p> <p>3 3,500  CR</p>		Ø 108,000	31-04045-000


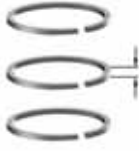
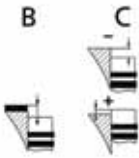

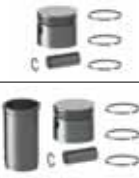
 <p>K=120,00 L=229,00 H+F=9,00+1,10 D=128,50</p>	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06067-000 52-06067-000	71-07152-000 72-07152-000
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108,000

TAD 734 GE Euro 2	D	2007	6 Cyl	7150cc	216-247kW	(293-336ps)
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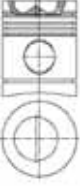






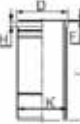

 <p>11-02098-000 CH 70,900 B- 20,000 BØ 66,000 TL 107,800</p>  <p>45,00x86,00</p>	AP YS	<p>91-09045-000</p> <p>1 3,000  CK</p> <p>2 2,000  P</p> <p>3 3,500  CR</p>		Ø 108,000	31-04098-000

 <p>K=120,00 L=228,00 H=8,07 D=131,70</p>	WF		O-Ring/Seal 55-50613-000 2 FPM 112,00x3,00	51-06065-000 52-06065-000	71-08108-000 72-08108-000
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	Type				
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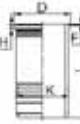
111,125

1113	D	3 Cyl	3780cc	41-46kW	(56-63ps)
1114	D	4 Cyl	5040cc	55kW	(75ps)

	11-02071-000 CH 85,500 B- 26,500 BØ 59,400 TL 148,500  40,00x90,50		91-09071-000 1 2,385  CR 2 3,160  P 3 3,160  P 4 4,747  CR 5 4,747  P		Ø 111,125	31-04071-000
	K=125,95 L=258,50 H+F=14,08+0,70 D=131,95	WF-PH		O-Ring/Seal 55-50619-000 2 FPM 125,00x4,00	51-06043-000 52-06043-000	71-08064-000 72-08064-000
	K=125,95 L=258,50 H+F=14,08+0,70 D=131,95	WF		O-Ring/Seal 55-50619-000 2 FPM 125,00x4,00	51-06071-000 52-06071-000	71-08071-000 72-08071-000






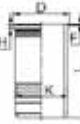
120,000


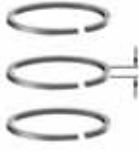
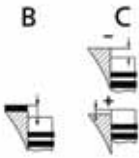

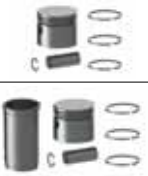
D9 A	D	6 Cyl	9364cc	kW	(ps)
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	11-01163-000 CH 85,500 VD1 0,400 B- 16,700 BØ 83,000 TL 129,900  54,00x96,00	AP YS	91-09086-000 1 4,000  Mo 2 3,000  CR 3 3,000  NT St		Ø 120,000	31-03163-000
	K=139,00 L=249,50 H+F=11,20+0,85 D=149,00	WF		O-Ring/Seal 55-50611-000 1 EPDM 132,50x2,40 1 EPDM 1 FPM 128,00x137,00x5,00 128,00x137,00x5,00	51-06045-000 52-06045-000	71-08027-000 72-08027-000






120,000

D9 A	D	6 Cyl	9364cc		
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	11-01164-000 CH 85,500 B- 17,200 BØ 78,500 TL 129,900  54,00x96,00	AP YS	91-09086-000 1 4,000  Mo 2 3,000  CR 3 3,000  NT St		Ø 120,000	31-03164-000
	K=139,00 L=249,50 H+F=11,20+0,85 D=149,00	WF		O-Ring/Seal 55-50611-000 1 EPDM 132,50x2,40 1 EPDM 1 FPM 128,00x137,00x5,00 128,00x137,00x5,00	51-06045-000 52-06045-000	71-08028-000 72-08028-000






	Type				
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120,000
 D 9 A 260 / 300 / 340 / 380 Euro 3 D 2001 6 Cyl 9364cc

	11-02086-000 CH 85,450 B- 14,600 BØ 77,000 TL 129,970	AP YS	91-09086-000 1 4,000  Mo 2 3,000  CR 3 3,000  NT St		Ø 120,000	31-04086-000
	54,00x96,00					






	K=139,00 L=249,50 H+F=11,20+1,00 D=149,00	WF		O-Ring/Seal 55-50611-000 1 EPDM 132,50x2,40 1 EPDM 1 FPM 128,00x137,00x5,00 128,00x137,00x5,00	51-06066-000 52-06066-000	71-08086-000 72-08086-000
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120,000
 D 9 B 300 / 340 / 380 Euro 4/5 D 2005 6 Cyl 9364cc 220-280kW (300-380ps)


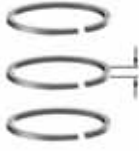
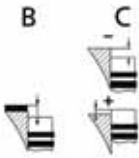





	11-02095-000 CH 85,450 VD1 1,000 B- 14,900 BØ 79,000 TL 129,950	AP YS	91-09095-000 1 3,500  NT St 2 2,500  NT St 3 3,000  NT St		Ø 120,000	31-04095-000
	54,00x96,00					

	K=139,00 L=249,50 H+F=11,20+1,00 D=149,00	WF		O-Ring/Seal 55-50611-000 1 EPDM 132,50x2,40 1 EPDM 1 FPM 128,00x137,00x5,00 128,00x137,00x5,00	51-06066-000 52-06066-000	71-08540-000 72-08540-000
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120,000
 D 9 A 260 / 300 / 340 / 380 Euro 3 D 2001 6 Cyl 9364cc 191-280kW (260-380ps)






	11-02096-000 CH 85,450 B- 15,000 BØ 77,900 TL 129,950	AP YS	91-09086-000 1 4,000  Mo 2 3,000  CR 3 3,000  NT St		Ø 120,000	31-04096-000
	54,00x96,00					

	K=139,00 L=249,50 H+F=11,20+1,00 D=149,00	WF		O-Ring/Seal 55-50611-000 1 EPDM 132,50x2,40 1 EPDM 1 FPM 128,00x137,00x5,00 128,00x137,00x5,00	51-06066-000 52-06066-000	71-08102-000 72-08102-000
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	Type				
					

120,000

CM19FO / TAD951VE / TAD952VE D 6 Cyl 9364cc kW (ps)






	11-02097-000 CH 85,450 VD1 1,000 B- 14,600 BØ 77,100 TL 129,950	AP YS	91-09095-000 1 3,500  NT St 2 2,500  NT St 3 3,000  NT St		Ø 120,000	31-04097-000
	54,00x96,00					

	K=139,00 L=249,50 H+F=11,20+1,00 D=149,00	WF		O-Ring/Seal 55-50611-000 1 EPDM 132,50x2,40 1 EPDM 1 FPM 128,00x137,00x5,00 128,00x137,00x5,00	51-06066-000 52-06066-000	71-08103-000 72-08103-000
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120,640

TD 102 F / FD / KF / KCE / GC Euro 1 D 1985 6 Cyl 9600cc

TD 102 FDQ / FF / FH / FQ / GA D 1977 6 Cyl 9600cc

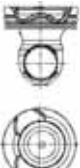




	11-02648-000 CH 92,550 VD1 1,950 VD2 1,950 B- 22,200 BØ 76,000 TL 132,550	PDB	91-09073-000 1 3,000  Mo 2 3,160  CR 3 4,747  CR		Ø 120,640	31-04648-000
	52,00x98,00	STEEL PISTON				

	K=133,84 L=287,50 H+F=11,52+3,50 D=147,00	WF		O-Ring/Seal 55-50616-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40	51-06079-000 52-06079-000	71-08106-000 72-08106-000
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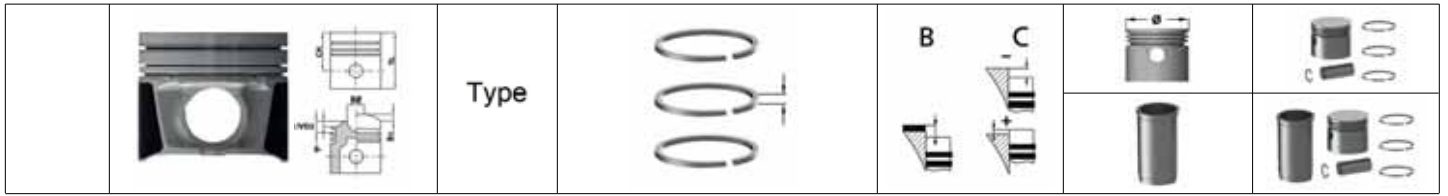
120,640

TD 102 FL / FM D 1985 2001 6 Cyl 9600cc 229-234kW (311-318ps)

THD 102 KD D 1992 1996 6 Cyl 9600cc 252kW (343ps)







	11-02649-000 CH 92,550 VD1 1,950 VD2 1,950 B- 20,400 BØ 76,000 TL 132,550	PDB	91-09073-000 1 3,000  Mo 2 3,160  CR 3 4,747  CR		Ø 120,640	31-04649-000
	52,00x98,00	STEEL PISTON				

	K=133,84 L=287,50 H+F=11,52+3,50 D=147,00	WF		O-Ring/Seal 55-50616-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40	51-06079-000 52-06079-000	71-08107-000 72-08107-000
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120,650

TAD1030G / TAD1030GE / TAD1030P / TAD1030V D 6 Cyl cc kW (ps)







  	<p>11-01165-000 CH 109,450 VD1 1,900 B- 24,000 BØ 76,000 TL 155,400</p>	<p>AP</p>	<p>91-09004-000 1 3,500  Mo 2 3,160  CR 3 4,747  CrP</p>	<p>Ø 120,650</p>	<p>31-03165-000</p>

	<p>K=133,85 L=296,50 H+F=11,52+3,50 D=146,95 R=12,00</p>	<p>WF</p>	<p>O-Ring/Seal 55-50616-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40</p>	<p>51-06073-000 52-06073-000</p>	<p>71-08029-000 72-08029-000</p>
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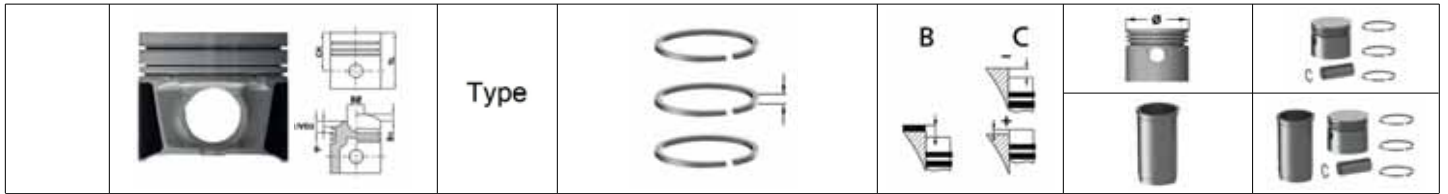
120,650

D 10 A 350 / A 360 / B 350 / B 360 Euro 2 D 1995 6 Cyl







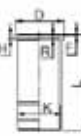
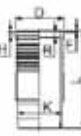
DH 10 A 360 Euro 2 D 1992 6 Cyl

  	<p>11-02055-000 CH 92,600 VD1 2,100 VD2 2,700 B- 22,500 BØ 64,000 TL 137,600</p>	<p>AP HA</p>	<p>91-09055-000 1 4,000  CR 2 3,160  CR 3 4,747  CR</p>	<p>Ø 120,650</p>	<p>31-04055-000</p>

	<p>K=134,00 L=287,50 H+F=11,52+3,50 D=147,00 R=13,00</p>	<p>WF</p>	<p>O-Ring/Seal 55-50616-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40</p>	<p>51-06063-000 52-06063-000</p>	<p>71-08093-000 72-08093-000</p>
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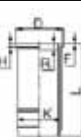
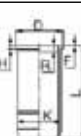


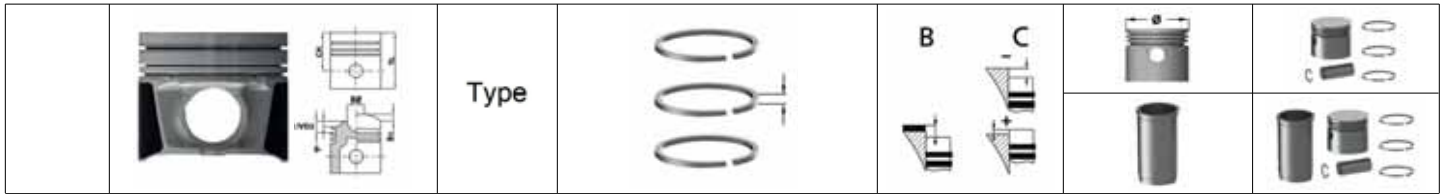
120,650
 TD 100 B / BG D 1974 1985 6 Cyl 9600cc 207-233kW (280-317ps)

 11-02072-000 CH 109,400 VD1 2,900 B- 28,000 BØ 76,000 TL 166,400  52,00x106,00	AP 91-09075-000 1 2,380  CR 2 3,160  CR 3 4,747  CR			Ø 120,650	31-04072-000
	K=133,85 L=294,00 H+F=11,73+0,70 D=146,95 R=20,00	WF	O-Ring/Seal 55-50605-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x1,60	51-06072-000 52-06072-000	71-08072-000 72-08072-000
	K=133,85 L=296,50 H+F=11,52+3,50 D=146,95 R=12,00	WF	O-Ring/Seal 55-50616-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40	51-06073-000 52-06073-000	71-08073-000 72-08073-000
	K=133,85 L=296,50 H+F=11,52+3,50 D=147,00 R=12,00	WF	O-Ring/Seal 55-50605-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x1,60	51-06075-000 52-06075-000	71-07149-000 72-07149-000

120,650
 TD 100 A / AG / AHC / ARC / HC D 1965 6 Cyl 9600cc 137-191kW (186-260ps)

THD 100 D D 1966 1994 6 Cyl 9600cc 155-177kW (211-241ps)					
THD 101 B D 1975 1982 6 Cyl 9600cc 169-191kW (230-260ps)					
TMD 100 A / D D 1969 6 Cyl 9600cc 143-194kW (195-264ps)					

 11-02074-000 CH 109,450 VD1 1,000 VD2 1,300 B- 27,650 BØ 71,000 TL 166,450  52,00x106,00	AP 91-09074-000 1 2,380  CR 2 3,160  CR 3 3,160  CR 4 4,750  CR		-0,50/+0,20	Ø 120,650	31-04074-000
	K=133,85 L=294,00 H+F=11,73+0,75 D=146,95 R=24,50	WF	O-Ring/Seal 55-50605-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x1,60	51-06070-000 52-06070-000	71-07088-000 72-07088-000
	K=133,85 L=294,00 H+F=11,73+0,75 D=146,95 R=20,00	WF	O-Ring/Seal 55-50605-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x1,60	51-06074-000 52-06074-000	71-08074-000 72-08074-000

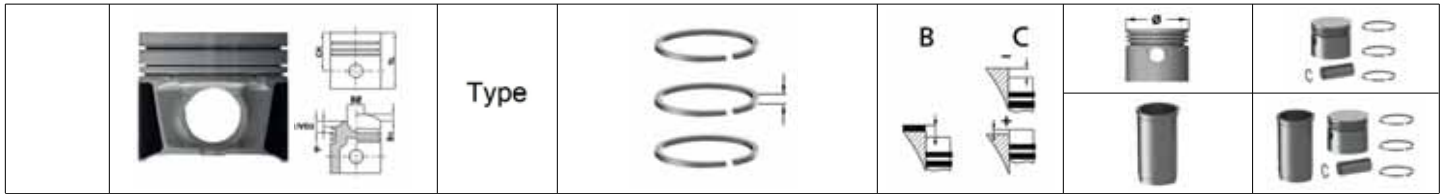


120,650						
TD 100 CHC / F / G / GA / GG	D	1980	6 Cyl	9600cc	151-213kW	(205-290ps)
TD 101 F / FA / FC / FD / G / GA / GE / GG	D	1982	6 Cyl	9600cc	192-222kW	(261-302ps)
TMD 102 A / C	D	1988	2000 6 Cyl	9600cc	104-200kW	(141-272ps)

<p>11-02075-000 CH 109,400 VD1 1,900 B- 23,150 BØ 76,000 TL 166,400</p> <p>52,00x106,00</p>	AP	<p>91-09075-000</p> <p>1 2,380 CR</p> <p>2 3,160 CR</p> <p>3 4,747 CR</p>	+0,15/+0,65	Ø 120,650	31-04075-000		
	WF					O-Ring/Seal 55-50616-000 52-06073-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40	71-07089-000 72-07089-000
	WF					O-Ring/Seal 55-50605-000 52-06075-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x1,60	71-08075-000 72-08075-000
	WF					O-Ring/Seal 55-50605-000 52-06085-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x1,60	71-08090-000 72-08090-000

120,650						
THD 102KA / KF / KJ	D	1988	6 Cyl	9600cc	158-210kW	(215-286ps)
THD 102KB Euro1	D	1992	1996 6 Cyl	9600cc	210kW	(286ps)

<p>11-02078-000 CH 109,400 VD1 1,900 B- 20,400 BØ 76,000 TL 166,400</p> <p>52,00x106,00</p>	AP	<p>91-09075-000</p> <p>1 2,380 CR</p> <p>2 3,160 CR</p> <p>3 4,747 CR</p>	Ø 120,650	31-04078-000		
	WF				O-Ring/Seal 55-50616-000 52-06073-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40	71-07083-000 72-07083-000
	WF				O-Ring/Seal 55-50605-000 52-06075-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x1,60	71-08078-000 72-08078-000



120,650

TD 103 E / EA / ES / ME Euro 1	D	1991	6 Cyl	9600cc	210-235kW	(286-320ps)
TD 103 KAE / KBE / KCE Euro 2	D	1995	6 Cyl	9600cc	186-216kW	(253-294ps)
TD 104 KAE Euro 2	D		6 Cyl	9600cc	190kW	(258ps)
TWD 1030 ME Euro 1	D	1993	6 Cyl	9600cc	235kW	(320ps)

<p>11-02543-000 CH 92,500 VD1 2,000 B- 21,800 BØ 67,500 TL 144,500</p> <p>52,00x98,00</p>	AP	<p>91-09004-000</p> <p>1 3,500 Mo 2 3,160 CR 3 4,747 CrP</p>		Ø 120,650	31-04543-000
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<p>K=134,00 L=287,50 H+F=11,52+3,50 D=147,00 R=13,00</p>	WF		O-Ring/Seal 55-50616-000 52-06063-000 1 FPM 132,80x5,80 1 EPDM 132,80x5,80 1 FPM 132,50x2,40	51-06063-000 52-06063-000	71-08544-000 72-08544-000
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123,010

D 11C	D	2010	6 Cyl	10800cc	243-332kW	(330-450ps)
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<p>11-02637-000 CH 78,400 VD1 1,000 B- 16,900 BØ 83,600 TL 114,400</p> <p>54,00x73,00</p>	MONOTHERM FRICTION STEEL PISTON	<p>91-09182-000</p> <p>1 3,500 PVD St 2 2,500 NT St 3 3,000 NT St</p>		Ø 123,010	31-04637-000
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Renault Truck (RVI) ve Volvo ile Ortak Motor

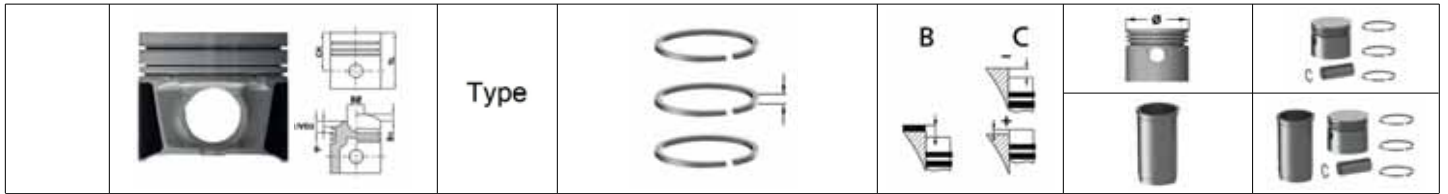
<p>K=139,00 L=249,50 H+F=11,20+0,85 D=149,00</p>	WF			51-05228-000	71-07178-000
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130,175

TD 123 E / EA / EB / EC / ED / ES Euro1	D	1990	2001	6 Cyl	12000cc	224-301kW	(305-409ps)
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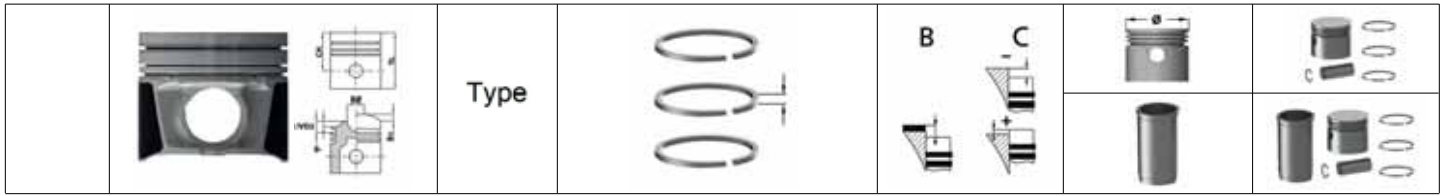
<p>11-02654-000 CH 114,550 VD1 2,800 VD2 2,800 B- 21,040 BØ 79,000 TL 159,550</p> <p>55,00x105,00</p>	CAST IRON PISTON	<p>91-09541-000</p> <p>1 3,500 Mo 2 3,160 CR 3 4,747 CR</p>		Ø 130,175	31-04654-000
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<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF		O-Ring/Seal 55-50617-000 52-06080-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06080-000 52-06080-000	71-08104-000 72-08104-000
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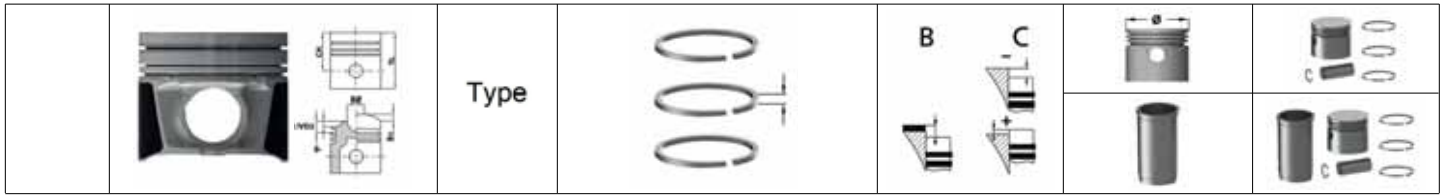
130,180								
TAMD 120		D	1980	1984	6 Cyl	12000cc	kW	(ps)
TAMD 120 AK / B / BCC / C / E		D	1980	1984	6 Cyl	12000cc	227-294kW	(308-400ps)
TD 120 F / FA / FB / FC / FTQ		D	1979	1994	6 Cyl	12000cc	220-265kW	(299-360ps)
TD 120 G		D	1983		6 Cyl	12000cc	225-256kW	(306-348ps)
TD 120 G / GA		D	1980	1986	6 Cyl	12000cc	225-256kW	(306-348ps)
TD 121 F / FD / FE / FF / GG		D	1979	2001	6 Cyl	12000cc	243-283kW	(330-385ps)
TD 121 FH / FK / GD		D	1983	1994	6 Cyl	12000cc	232-280kW	(315-361ps)
TD 121 K		D	1983	1993	6 Cyl	12000cc	288kW	(392ps)
TD 122 GB / KBE		D	1980	1984	6 Cyl	12000cc	227-265kW	(308-360ps)
TJD 121 G		D	1987		6 Cyl	12000cc	243kW	(330ps)
TMD 121 A / C		D	1982	1988	6 Cyl	12000cc	164-283kW	(223-385ps)

<p>11-02042-000 CH 114,200 VD1 2,500 B- 27,900 BØ 79,000 TL 175,200</p> <p>55,00x114,00</p>	AP	<p>91-09077-000</p> <p>1 2,385 Mo 2 3,160 CR 3 4,747 CR</p>		Ø 130,180	31-04042-000
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF-PH		<p>O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06068-000 52-06068-000</p>	<p>71-08010-000 72-08010-000</p>
<p>K=143,90 L=311,00 H+F=13,53+0,80 D=157,60 R=18,00</p>	WF		<p>O-Ring/Seal 55-50606-000 1 FPM 142,80x5,80 1 EPDM 142,80x5,80 1 FPM 145,00x1,50 52-S0606-004</p>	<p>51-06076-000 52-06076-000</p>	<p>71-07167-000 72-07167-000</p>
<p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF		<p>O-Ring/Seal 55-50607-000 1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70</p>	<p>51-06077-000 52-06077-000</p>	<p>71-07169-000 72-07169-000</p>
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00</p>	WF		<p>O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06078-000 52-06078-000</p>	<p>71-07166-000 72-07166-000</p>









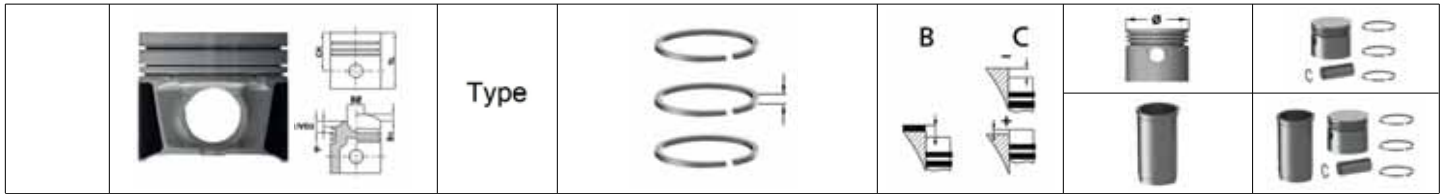
130,180								
TAD 120 BHC	D	1977	1980	6 Cyl	12000cc	225-273kW	(306-371ps)	
TAD 121 CHC	D	1983	1988	6 Cyl	12000cc	238kW	(324ps)	
TAMD 120 A / D	D	1977		6 Cyl	12000cc	227-273kW	(308-371ps)	
TAMD 121 C	D	1983	1986	6 Cyl	12000cc	300kW	(408ps)	
TAMD 121 D	D	1983	1988	6 Cyl	12000cc	217-310kW	(295-420ps)	
TD 120 C / D / E / GG	D	1977		6 Cyl	12000cc	173-273kW	(236-371ps)	
TID 120 FG	D			6 Cyl	12000cc	217-264kW	(295-359ps)	

<p>11-02043-000 CH 114,200 VD1 2,500 B- 27,620 BØ 83,000 TL 175,200</p> <p>55,00x114,00</p>	AP	<p>91-09077-000</p> <p>1 2,385 Mo 2 3,160 CR 3 4,747 CR</p> <p>Old version 2076 000</p>			Ø 130,180	31-04043-000
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF-PH			<p>O-Ring/Seal</p> <p>55-50617-000</p> <p>1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06068-000 52-06068-000</p>	<p>71-08011-000 72-08011-000</p>
<p>K=143,90 L=311,00 H+F=13,53+0,80 D=157,60 R=18,00</p>	WF			<p>O-Ring/Seal</p> <p>55-50606-000</p> <p>1 FPM 142,80x5,80 1 EPDM 142,80x5,80 1 FPM 145,00x1,50 52-S0606-004</p>	<p>51-06076-000 52-06076-000</p>	<p>71-07163-000 72-07163-000</p>
<p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF			<p>O-Ring/Seal</p> <p>55-50607-000</p> <p>1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70</p>	<p>51-06077-000 52-06077-000</p>	<p>71-07164-000 72-07164-000</p>
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00</p>	WF			<p>O-Ring/Seal</p> <p>55-50617-000</p> <p>1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06078-000 52-06078-000</p>	<p>71-07165-000 72-07165-000</p>








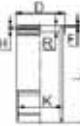



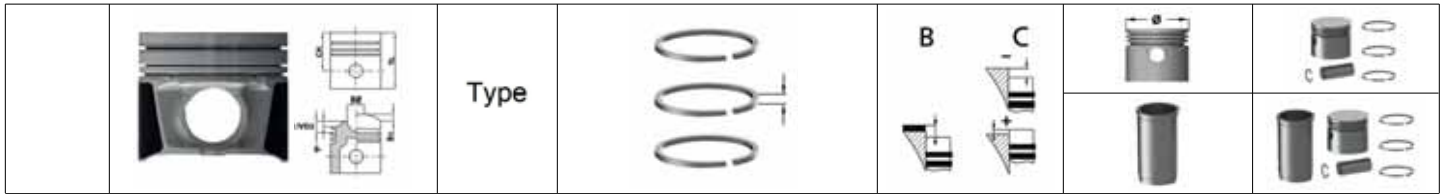
130,180								
TAD 120 BHC	D	1977	1980	6 Cyl	12000cc	225-273kW	(306-371ps)	
TAD 121 CHC	D	1983	1988	6 Cyl	12000cc	238kW	(324ps)	
TAMD 120 A / D	D	1977		6 Cyl	12000cc	227-273kW	(308-371ps)	
TAMD 121 C	D	1983	1986	6 Cyl	12000cc	300kW	(408ps)	
TAMD 121 D	D	1983	1988	6 Cyl	12000cc	217-310kW	(295-420ps)	
TD 120 C / D / E / GG	D	1977		6 Cyl	12000cc	173-273kW	(236-371ps)	
TID 120 FG	D			6 Cyl	12000cc	217-264kW	(295-359ps)	

 <p>11-02076-000 CH 114,200 VD1 2,500 B- 27,620 BØ 83,000 TL 175,200</p> <p>55,00x114,00</p>	AP	<p>91-09077-000</p> <p>1 2,385  Mo 2 3,160  CR 3 4,747  CR</p>	-0,05/+0,45	Ø 130,180	31-04076-000
 <p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF-PH		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06068-000 52-06068-000	71-08012-000 72-08012-000
 <p>K=143,90 L=311,00 H+F=13,53+0,80 D=157,60 R=18,00</p>	WF		O-Ring/Seal 55-50606-000 1 FPM 142,80x5,80 1 EPDM 142,80x5,80 1 FPM 145,00x1,50 52-S0606-004	51-06076-000 52-06076-000	71-08076-000 72-08076-000
 <p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF		O-Ring/Seal 55-50607-000 1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70	51-06077-000 52-06077-000	71-07160-000 72-07160-000
 <p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00</p>	WF		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06078-000 52-06078-000	71-07168-000 72-07168-000



130,180										
TAMD 120 AK / B / BCC / C / E				D	1980	1984	6 Cyl	12000cc	227-294kW	(308-400ps)
TD 120 F / FA / FB / FC / FTQ				D	1979	1994	6 Cyl	12000cc	220-265kW	(299-360ps)
TD 120 G				D	1980	1986	6 Cyl	12000cc	225-256kW	(306-348ps)
TD 120 G / GA				D	1980	1986	6 Cyl	12000cc	225-256kW	(306-348ps)
TD 121 F / FD / FE / FF / GG				D	1979	2001	6 Cyl	12000cc	243-283kW	(330-385ps)
TD 121 FH / FK / GD				D	1983	1994	6 Cyl	12000cc	232-280kW	(315-361ps)
TD 121 K				D	1983	1993	6 Cyl	12000cc	288kW	(392ps)
TD 122 GB / KBE				D	1980	1984	6 Cyl	12000cc	227-265kW	(308-360ps)
TJD 121 G				D	1987		6 Cyl	12000cc	243kW	(330ps)
TMD 121 A / C				D	1982	1988	6 Cyl	12000cc	164-283kW	(223-385ps)

 <p>11-02077-000 CH 114,200 VD1 2,500 B- 27,900 BØ 79,000 TL 175,200</p>  55,00x114,00	AP	<p>91-09077-000</p> <p>1 2,385  Mo 2 3,160  CR 3 4,747  CR</p>		Ø 130,180	31-04077-000
 <p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF-PH		<p>O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06068-000 52-06068-000</p>	<p>71-08013-000 72-08013-000</p>
 <p>K=143,90 L=311,00 H+F=13,53+0,80 D=157,60 R=18,00</p>	WF		<p>O-Ring/Seal 55-50606-000 1 FPM 142,80x5,80 1 EPDM 142,80x5,80 1 FPM 145,00x1,50 52-S0606-004</p>	<p>51-06076-000 52-06076-000</p>	<p>71-08077-000 72-08077-000</p>
 <p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF		<p>O-Ring/Seal 55-50607-000 1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70</p>	<p>51-06077-000 52-06077-000</p>	<p>71-07159-000 72-07159-000</p>
 <p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00</p>	WF		<p>O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06078-000 52-06078-000</p>	<p>71-08089-000 72-08089-000</p>

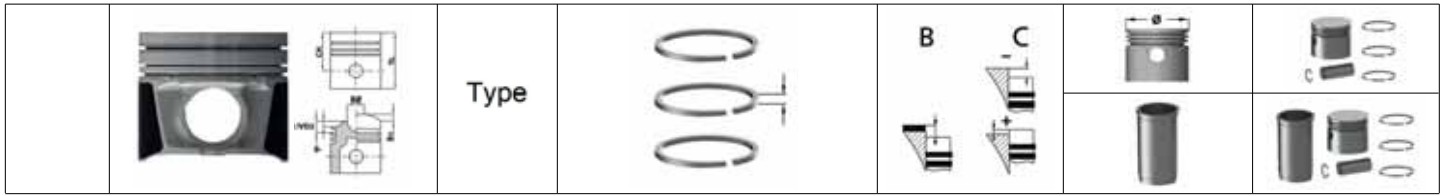


130,180						
TD 122 ED / F / F(USA) / FAQ / FBQ / FCQ / FL / KHD	D	1987	6 Cyl	11977cc	262-396kW	(356-538ps)
TD 122 FH Euro 1	D	1990	6 Cyl	11977cc	262kW	(356ps)
TD 122 KHE	D	1992	2002	6 Cyl	11977cc	209kW (284ps)

<p>11-02079-000 CH 114,200 VD1 2,600 B- 24,120 BØ 79,000 TL 175,200</p> <p> 55,00x114,00</p>	AP	<p>91-09077-000</p> <p>1 2,385 Mo 2 3,160 CR 3 4,747 CR</p>	0/+0,55	Ø 130,180	31-04079-000
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF-PH		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06068-000 52-06068-000	71-08014-000 72-08014-000
<p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF		O-Ring/Seal 55-50607-000 1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70	51-06077-000 52-06077-000	71-07085-000 72-07085-000
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00</p>	WF		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06078-000 52-06078-000	71-08079-000 72-08079-000

130,180						
TD 120 A	D	1970	1984	6 Cyl	12000cc	215-243kW (292-330ps)
TMD 120 A	D	1970	1982	6 Cyl	12000cc	169-243kW (230-330ps)

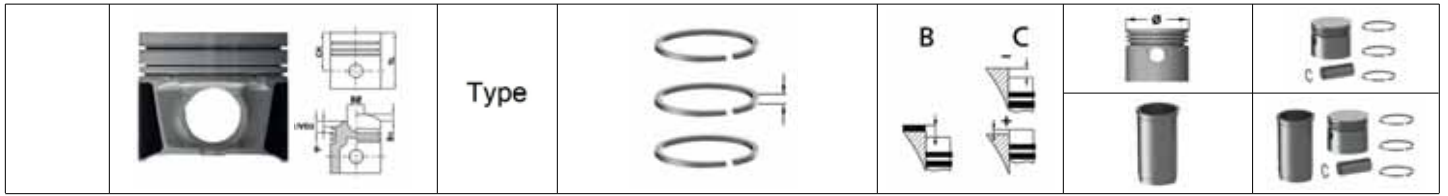
<p>11-02081-000 CH 114,200 VD1 1,900 VD2 2,100 B- 31,550 BØ 75,000 TL 175,200</p> <p> 55,00x114,00</p>	AP	<p>91-09077-000</p> <p>1 2,385 Mo 2 3,160 CR 3 4,747 CR</p>	+0,05/+0,45	Ø 130,180	31-04081-000
<p>K=143,90 L=311,00 H+F=13,53+0,80 D=157,60 R=18,00</p>	WF		O-Ring/Seal 55-50606-000 1 FPM 142,80x5,80 1 EPDM 142,80x5,80 1 FPM 145,00x1,50 52-S0606-004	51-06076-000 52-06076-000	71-08081-000 72-08081-000
<p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF		O-Ring/Seal 55-50607-000 1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70	51-06077-000 52-06077-000	71-07062-000 72-07062-000



130,180


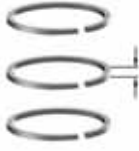
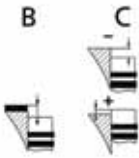

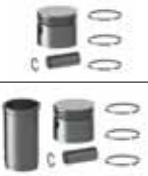
TAMD 122 A / AF	D	1988	2002	6 Cyl	12000cc	135-294kW	(183-400ps)
TD 122 FA / FK / FR / FS / GA / GH / KE	D	1987		6 Cyl	11977cc	179-396kW	(243-538ps)
TID 121 FG	D	1983		6 Cyl	12000cc	217-305kW	(295-415ps)
TMD 122 A	D	1988	2000	6 Cyl	12000cc	221-235kW	(300-320ps)

<p>11-02082-000 CH 114,200 VD1 2,600 B- 25,400 BØ 79,000 TL 175,200</p> <p> 55,00x114,00</p>	AP	<p>91-09077-000</p> <p>1 2,385 Mo 2 3,160 CR 3 4,747 CR</p>		Ø 130,180	31-04082-000
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF-PH		<p>O-Ring/Seal</p> <p>55-50617-000</p> <p>1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06068-000 52-06068-000</p>	<p>71-08015-000 72-08015-000</p>
<p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50607-000</p> <p>1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70</p>	<p>51-06077-000 52-06077-000</p>	<p>71-07093-000 72-07093-000</p>
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00</p>	WF		<p>O-Ring/Seal</p> <p>55-50617-000</p> <p>1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40</p>	<p>51-06078-000 52-06078-000</p>	<p>71-08082-000 72-08082-000</p>











130,180							
TAD 1230 G / GE / P	D	1993	8 Cyl	12130cc	294-350kW	(400-476ps)	
TAD 1231 GE Euro 1	D	1993	8 Cyl	12130cc	260-304kW	(354-413ps)	
TAD 1232 GE Euro 1	D	1993	8 Cyl	12130cc	300-354kW	(408-481ps)	
TD 121 GP	D	1993	8 Cyl	12000cc	243-283kW	(330-385ps)	
TD 1210 G	D	1991	8 Cyl	12000cc	230kW	(313ps)	
TWD 1211 G	D	1993	8 Cyl	12000cc	260-325kW	(354-442ps)	
TWD 1231 VE	D		8 Cyl	12000cc	310kW	(422ps)	

<p>11-02545-000 CH 114,200 VD1 2,600 B- 26,000 BØ 80,000 TL 172,200</p> <p>55,00x114,00</p>	AP	<p>91-09541-000</p> <p>1 3,500 Mo 2 3,160 CR 3 4,747 CR</p>			Ø 130,180	31-04545-000
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55</p>	WF-PH		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06068-000 52-06068-000	71-08017-000 72-08017-000	
<p>K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00</p>	WF		O-Ring/Seal 55-50607-000 1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70	51-06077-000 52-06077-000	71-08543-000 72-08543-000	
<p>K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00</p>	WF		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06078-000 52-06078-000	71-08549-000 72-08549-000	

	Type				
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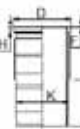
130,180


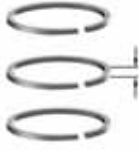
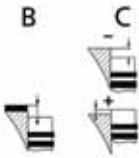

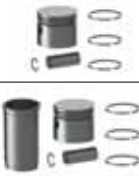
TAD 121 CHC	D	6 Cyl	11975cc	238kW	(324ps)
TAMD 121 C / D	D	6 Cyl	11975cc	217-309kW	(295-420ps)

	11-02915-000 CH 114,200 VD1 2,500 B- 27,640 BØ 83,000 TL 175,200	AP	91-09077-000 1 2,385  Mo 2 3,160  CR 3 4,747  CR		Ø 130,180	31-04915-000
	55,00x114,00					
	K=143,90 L=313,50 H+F=10,53+3,50 D=157,55	WF-PH		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06068-000 52-06068-000	71-08018-000 72-08018-000
	K=143,90 L=311,00 H+F=10,53+0,80 D=157,60 R=18,00	WF		O-Ring/Seal 55-50607-000 1 FPM 145,00x1,50 2 EPDM 143,00x5,70 1 FPM 143,00x5,70	51-06077-000 52-06077-000	71-08915-000 72-08915-000
	K=143,90 L=313,50 H+F=10,53+3,50 D=157,55 R=18,00	WF		O-Ring/Seal 55-50617-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 141,00x2,40	51-06078-000 52-06078-000	71-07061-000 72-07061-000

131,000







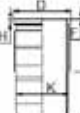
D 13 A 400 Euro 4/5	D	2005	6 Cyl	12800cc	294kW	(400ps)
D 13 A 440 Euro 4/5	D	2005	6 Cyl	12800cc	324kW	(440ps)

	11-02089-000 CH 84,200 B- 18,280 BØ 89,000 TL 130,700	AP YS	91-09089-000 1 3,500  NtPvD St 2 2,500  NT St 3 3,000  NT St	-0,10/+0,10	Ø 131,000	31-04089-000
	58,00x104,00					
	K=144,00 L=262,00 H+F=11,20+0,90 D=159,60	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06088-000 52-06088-000	71-08548-000 72-08548-000

	Type				
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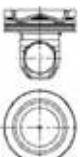




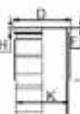
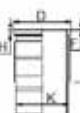
131,000

D 12 C 340 / C 380 / C 420 / D 340 / D 380 / D 420 Euro 3 D 1993 8 Cyl 12130cc 250-309kW (340-420ps)

	11-02546-000 CH 87,250 B- 17,240 BØ 89,000 TL 137,400	AP HA	91-09005-000 1 4,000  Mo 2 3,000  P 3 4,000  CR	+0,15/+0,65	Ø 131,000	31-04546-000
	55,00x107,00					
	K=143,90 L=276,40 H+F=11,20+4,45 D=159,60	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06082-000 52-06082-000	71-08547-000 72-08547-000
	K=144,00 L=272,80 H+F=11,20+0,90 D=159,60	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06083-000 52-06083-000	71-08546-000 72-08546-000

131,010

D 12 B 340 Euro 2 D 1993 2002 6 Cyl 12100cc 250kW (340ps)
 D 12 C 340 / 380 / 420 / 460 Euro 3 D 1998 6 Cyl 12100cc 313-368kW (425-500ps)
 D 12 D 340 / 380 / 420 / 425 / 460 / 500 Euro 3 D 2001 6 Cyl 12100cc 250-368kW (340-500ps)
 DH 12 D 340 / 420 Euro 3 D 2001 6 Cyl 12100cc 250-309kW (340-420ps)

	11-02085-000 CH 87,400 B- 17,140 BØ 89,000 TL 129,400	STEEL PISTON	91-09005-000 1 4,000  Mo 2 3,000  P 3 4,000  CR	+0,15/+0,65	Ø 131,010	31-04085-000
	55,00x107,00					
Renault Trucks (RVI) ve Volvo ile Ortak Motor						
	K=144,00 L=272,80 H+F=11,20+0,90 D=159,60	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06064-000 52-06064-000	71-08552-000 72-08552-000
	K=144,00 L=272,80 H+F=11,20+0,90 D=159,60	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06083-000 52-06083-000	71-08550-000 72-08550-000

	Type					
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131,010

D12F 390 Euro 4 D 6 Cyl 11967cc 287kW (390ps)

D12F 430 Euro 4 D 6 Cyl 11967cc 316kW (430ps)

	11-02651-000 CH 87,400 B- 18,600 BØ 89,000 TL 129,400 55,00x107,00	STEEL PISTON	91-09005-000 1 4,000 Mo 2 3,000 P 3 4,000 CR		Ø 131,010	31-04651-000
	K=144,00 L=272,80 H+F=11,20+0,90 D=159,60	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06083-000 52-06083-000	71-07172-000 72-07172-000

131,010

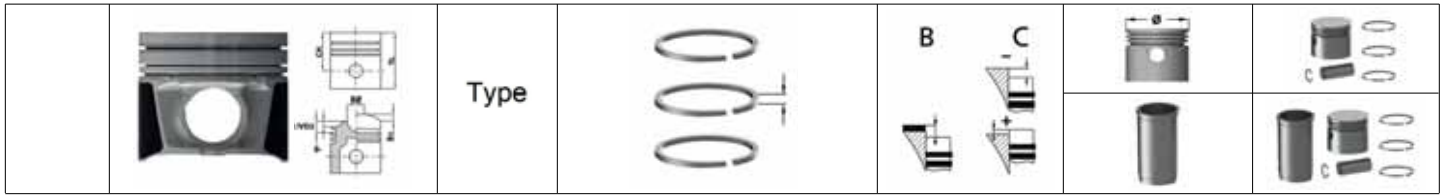
D12C 345 Euro 3 D 6 Cyl 12130cc 254kW (345ps)

D12C 385 Euro 3 D 6 Cyl 12130cc 283kW (385ps)

D12C 425 Euro 3 D 6 Cyl 12130cc 317kW (425ps)

D12C 465 Euro 3 D 6 Cyl 12130cc 338kW (465ps)

	11-02652-000 CH 87,400 B- 18,610 BØ 89,000 TL 129,400 55,00x107,00	STEEL PISTON	91-09005-000 1 4,000 Mo 2 3,000 P 3 4,000 CR		Ø 131,010	31-04652-000
	K=144,00 L=272,80 H+F=11,20+0,90 D=159,60	WF		O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50	51-06083-000 52-06083-000	71-08652-000 72-08652-000



131,010							
D12A 340 Euro 2		D	1995	8 Cyl	12130cc	250kW	(340ps)
D12A 370 Euro 2		D	1995	8 Cyl	12130cc	272kW	(370ps)
D12A 380 Euro 2		D	1995	8 Cyl	12130cc	280kW	(380ps)
D12A 415 Euro 2		D	1995	8 Cyl	12130cc	305kW	(415ps)
D12A 420 Euro 2		D	1995	8 Cyl	12130cc	309kW	(420ps)

<p>11-02653-000 CH 87,400 B- 19,720 BØ 86,000 TL 129,400</p> <p>55,00x107,00</p>	<p>91-09005-000 1 4,000 Mo 2 3,000 P 3 4,000 CR</p>	<p>STEEL PISTON</p>	<p>Ø 131,010</p>	<p>31-04653-000</p>


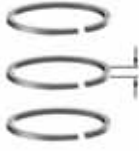
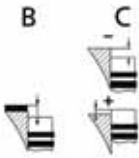

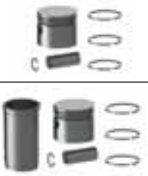
<p>K=143,90 L=276,40 H+F=11,20+4,45 D=159,60</p>	<p>WF</p>	<p>O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50</p>	<p>51-06082-000 52-06082-000</p>	<p>71-08105-000 72-08105-000</p>
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<p>K=144,00 L=272,80 H+F=11,20+0,90 D=159,60</p>	<p>WF</p>	<p>O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50</p>	<p>51-06083-000 52-06083-000</p>	<p>71-08653-000 72-08653-000</p>
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131,010							
D13A 400		D	2005	6 Cyl	12800cc	294kW	(400ps)
D13A 480		D	2005	6 Cyl	12800cc	353kW	(480ps)
D13A 520		D	2005	6 Cyl	12800cc	382kW	(520ps)






<p>11-02656-000 CH 75,900 B- 18,100 BØ 89,000 TL 114,900</p> <p>58,00x76,00</p>	<p>91-09089-000 1 3,500 NiPVD St 2 2,500 NT St 3 3,000 NT St</p>	<p>MONOTHERM FRICTION STEEL PISTON</p>	<p>Ø 131,010</p>	<p>31-04656-000</p>

<p>Volvo ve Renault ile Ortak Motor</p>							
<p>K=144,00 L=262,00 H+F=11,20+0,90 D=159,60</p>	<p>WF</p>	<p>O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50</p>	<p>51-06088-000 52-06088-000</p>	<p>71-07174-000 72-07174-000</p>			

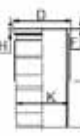
	Type				
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131,010

D 13 C 380 / 420 / 460 / 500 / 540 D 2009 6 Cyl 12780cc 280-397kW (380-540ps)

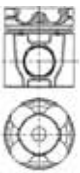




	<p>11-02657-000 CH 75,900 B- 18,000 BØ 90,500 TL 114,900</p> <p> 58,00x76,00</p>	MONOTHERM FRICTION STEEL PISTON	<p>91-09089-000 1 3,500  NtPvD St 2 2,500  NT St 3 3,000  NT St</p>		Ø 131,010	31-04657-000
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Volvo ve Renault ile Ortak Motor

	<p>K=144,00 L=262,00 H+F=11,20+0,90 D=159,60</p>	WF		<p>O-Ring/Seal 55-50612-000 1 FPM 142,80x5,80 2 EPDM 142,80x5,80 1 FPM 145,00x2,50</p>	51-06088-000 52-06088-000	71-07173-000 72-07173-000
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144,000






D 16 A 470 Euro 1	D 1993	1999	6 Cyl	16120cc	346kW	(470ps)
D 16 A 520 Euro 1	D 1993	1999	6 Cyl	16120cc	382kW	(520ps)
D 16 B 470 Euro 2	D 1998	2003	6 Cyl	16120cc	346kW	(470ps)
D 16 B 520 Euro 2	D 1998	2003	6 Cyl	16120cc	382kW	(520ps)

	<p>11-01159-000 CH 110,500 VD1 1,650 B- 28,700 BØ 80,000 TL 163,500</p> <p> 60,00x115,00</p>	<p>AP YS HA PDB</p>	<p>91-09054-000 1 4,500  CK 2 3,500  CR 3 5,000  CR</p>	-0,90/-1,50	Ø 144,000	31-03159-000
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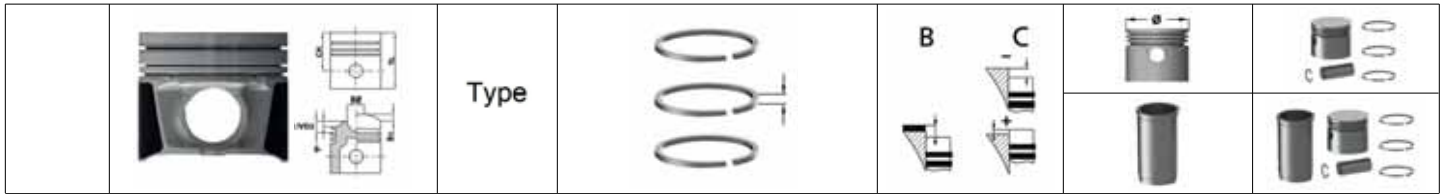
	<p>K=158,90 L=316,00 H+F=13,09+2,00 D=172,00</p>	WF		<p>O-Ring/Seal 55-50604-000 1 FPM 168,00x2,40 1 NBR 154,00x2,40 2 NBR 157,60x5,80 52-S0604-004</p>	51-06086-000 52-06086-000	71-07162-000 72-07162-000
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144,000

DC 16 D 2003 6 Cyl 16120cc 404-449kW (549-610ps)

	<p>11-02647-000 CH 90,800 B- 18,500 BØ 98,000 TL 134,700</p> <p> 63,00x119,00</p>	<p>PDB STEEL PISTON</p>	<p>91-09076-000 1 4,500  Mo 2 3,500  NT 3 4,000  St</p>		Ø 144,000	31-04647-000
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	<p>K=166,00 L=288,35 H+F=13,20+0,65 D=177,00</p>	WF		<p>O-Ring/Seal 55-50615-000 1 EPDM 152,00x164,00x7,00 1 FPM 152,00 x164,00x7,00 1 EPDM 155,00x2,40</p>	51-06033-000 52-06033-000	71-07171-000 72-07171-000
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102,000

4901	D	1984	3 Cyl	2696cc	26-33kW	(35-45ps)
5001	D	1978	3 Cyl	2696cc	26-33kW	(35-45ps)
5201	D	1984	3 Cyl	2696cc	33kW	(45ps)
6901	D	1978	4 Cyl	3596cc	42-46kW	(57-62ps)
7001	D	1984	4 Cyl	3596cc	46-48kW	(63-65ps)
7201	D	1984	4 Cyl	3596cc	48kW	(65ps)

<p>11-02091-000 CH 66,500 B- 22,500 BØ 47,500 TL 116,500</p> <p>35,00x86,00</p>		<p>91-09091-000</p> <p>1 3,000 CR</p> <p>2 3,000 P</p> <p>3 3,000 P</p> <p>4 5,000 CR</p>		Ø 102,000	31-04091-000
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<p>K=115,95 L=225,70 H+F=10,05+0,70 D=123,80</p>	WF			51-06091-000	71-08091-000
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110,000

8001	D	1968	4 Cyl	4562cc	55-60kW	(75-82ps)
8002	D		4 Cyl	4562cc	70-75kW	(95-102ps)
8601	D	1968	6 Cyl	6842cc	74-87kW	(100-118ps)
8602	D	1981	4 Cyl	4562cc	110-118kW	(150-160ps)
GM 01	D	1969	3 Cyl	3121cc	38-41kW	(51-56ps)
GZ 01	D	1969	4 Cyl	4562cc	56kW	(76ps)

<p>11-02092-000 CH 76,000 B- 21,800 BØ 55,000 TL 128,000</p> <p>40,00x93,00</p>		<p>91-09092-000</p> <p>1 3,000 CR</p> <p>2 3,000 P</p> <p>3 3,000 P</p> <p>4 6,000 CR</p>		Ø 110,000	31-04092-000
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<p>K=126,95 L=234,50 H+F=10,07+0,70 D=135,27</p>	WF			51-06092-000	71-08092-000
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-03000-000	11-01000-000	91-09409-000								
31-03001-000	11-01001-000	91-09409-000								
31-03002-000	11-01002-000	91-09315-000								
31-03004-000	11-01004-000	91-09575-000								
31-03005-000	11-01005-000	91-09576-000								
31-03006-000	11-01006-000	91-09579-000								
31-03007-000	11-01007-000	91-09580-000								
31-03008-000	11-01008-000	91-09581-000								
31-03009-000	11-01009-000	91-09637-000								
31-03010-000	11-01010-000	91-09766-000								
31-03013-000	11-01013-000	91-09638-000								
31-03014-000	11-01014-000	91-09683-000								
31-03015-000	11-01015-000	91-09684-000								
31-03022-000	11-01022-000									
31-03025-000	11-01025-000									
31-03026-000	11-01026-000									
31-03028-000	11-01028-000	91-09408-000	51-05759-000	71-07342-000						
31-03029-000	11-01029-000	91-09408-000	51-05759-000	71-07343-000						
31-03030-000	11-01030-000	91-09409-000								
31-03031-000	11-01031-000	91-09409-000								
31-03034-000	11-01034-000	91-09378-000	51-35382-000	71-07272-000						
31-03034-000	11-01034-000	91-09378-000	51-65253-000							
31-03090-000	11-01090-000	91-09316-000								
31-03094-000	11-01094-000									
31-03101-000	11-01101-000	91-09123-000								
31-03107-000	11-01107-000	91-09113-000								
31-01115-000	11-01115-000	91-09108-000	51-95174-000	71-08871-000						
31-01115-000	11-01115-000	91-09108-000	52-95174-000	72-08871-000	55-50920-000					
31-01119-000	11-01119-000		51-95179-000	71-08872-000						
31-01119-000	11-01119-000		52-95179-000	72-08872-000	55-50921-000					
31-01146-000	11-01146-000	91-09522-000								
31-03148-000	11-01148-000	91-09528-000								
31-03149-000	11-01149-000	91-09003-000	51-05963-000	71-08516-000						
31-03149-000	11-01149-000	91-09003-000	52-05963-000	72-08516-000	55-50706-000					
31-03149-000	11-01149-000	91-09003-000	52-05963-000	72-08516-000	55-50706-000					
31-03150-000	11-01150-000	91-09003-000	51-05933-000	71-07930-000						
31-03154-000	11-01154-000	91-09058-000	51-06048-000	71-07150-000						
31-03154-000	11-01154-000	91-09058-000	51-06054-000	71-07151-000						
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31-03154-000	11-01154-000	91-09058-000	52-06058-000	72-07154-000	55-50610-000					
31-03158-000	11-01158-000	91-49057-000	51-06057-000	71-07161-000						
31-03158-000	11-01158-000	91-49057-000	52-06057-000	72-07161-000	55-50618-000				32-R3208-000	
31-03159-000	11-01159-000	91-09054-000	51-06086-000	71-07162-000					32-R3208-000	
31-03159-000	11-01159-000	91-09054-000	52-06086-000	72-07162-000	55-50604-000		33-W6066-000			
31-03161-000	11-01161-000	91-09058-000	51-06036-000	71-07094-000			33-W6066-000			
31-03161-000	11-01161-000	91-09058-000	51-06054-000	71-07103-000		31-M0185-000	33-W6061-000		32-R3203-000	
31-03161-000	11-01161-000	91-09058-000	51-06058-000	71-07102-000		31-M0185-000	33-W6061-000		32-R3203-000	
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31-03161-000	11-01161-000	91-09058-000	52-06054-000	72-07103-000	55-50610-000	31-M0185-000	33-W6061-000		32-R3203-000	
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31-03162-000	11-01162-000	91-09042-000				31-M0185-000	33-W6061-000		32-R3203-000	
31-03162-001	11-01162-001	91-09042-000								
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31-03164-000	11-01164-000	91-09086-000	51-06045-000	71-08028-000						
31-03164-000	11-01164-000	91-09086-000	52-06045-000	72-08028-000	55-50611-000					
31-03165-000	11-01165-000	91-09004-000	51-06073-000	71-08029-000						
31-03165-000	11-01165-000	91-09004-000	52-06073-000	72-08029-000	55-50616-000					
31-03175-000	11-01175-000									
31-03194-000	11-01194-000	91-09198-000	51-65355-000							
31-03204-000	11-01204-000	91-09204-000	51-05258-000	71-07205-000						
31-03204-000	11-01204-000	91-09204-000	51-05331-000	71-07113-000						
31-03204-000	11-01204-000	91-09204-000	52-05331-000	72-07113-000	55-50911-000					

Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-03204-000	11-01204-000	91-09204-000	51-05352-000	71-07204-000						
31-03204-000	11-01204-000	91-09204-000	52-05352-000	72-07204-000	55-50911-000					
31-03204-000	11-01204-000	91-09204-000	51-05358-000	71-07047-000						
31-03204-000	11-01204-000	91-09204-000	52-05331-000	72-07113-000	55-50911-000					
31-03204-000	11-01204-000	91-09204-000	52-05352-000	72-07204-000	55-50911-000					
31-03209-000	11-01209-000	91-09205-000	51-05258-000	71-07206-000						
31-03209-000	11-01209-000	91-09205-000	51-05331-000	71-07122-000						
31-03209-000	11-01209-000	91-09205-000	52-05331-000	72-07122-000	55-50911-000					
31-03209-000	11-01209-000	91-09205-000	51-05352-000	71-07209-000						
31-03209-000	11-01209-000	91-09205-000	52-05352-000	72-07209-000	55-50911-000					
31-03209-000	11-01209-000	91-09205-000	51-05358-000	71-07005-000						
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31-03210-000	11-01210-000	91-09210-000	51-05331-000	71-07120-000						
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31-03213-000	11-01213-000	91-09213-000	51-05482-000	71-07213-000						
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31-03214-000	11-01214-000	91-09214-000	51-05353-000	71-07214-000						
31-03219-000	11-01219-000	91-09213-000	51-05484-000	71-07219-000						
31-03219-000	11-01219-000	91-09213-000	52-05484-000	72-07219-000	55-50909-000					
31-03219-000	11-01219-000	91-09213-000	52-05484-000	72-07219-000	55-50909-000					
31-03220-000	11-01220-000	91-09211-000								
31-03221-000	11-01221-000	91-09200-000								
31-03224-000	11-01224-000	91-09212-000								
31-03225-000	11-01225-000	91-09212-000	51-06136-000	71-07225-000						
31-03227-000	11-01227-000	91-09213-000	51-05479-000	71-07227-000						
31-03241-000	11-01241-000	91-09241-000								
31-03243-000	11-01243-000	91-09243-000								
31-03252-000	11-01252-000	91-09252-000								
31-03253-000	11-01253-000	91-09253-000	51-95569-000	71-07253-000						
31-03255-000	11-01255-000	91-09253-000	51-95569-000	71-07255-000						
31-03260-000	11-01260-000	91-09260-000	51-05264-000	71-07260-000						
31-03260-000	11-01260-000	91-09260-000	52-05264-000	72-07260-000	55-50906-000					
31-03260-000	11-01260-000	91-09260-000	52-05264-000	72-07260-000	55-50906-000					
31-03263-000	11-01263-000	91-09382-000	51-35382-000	71-07263-000						
31-03263-000	11-01263-000	91-09382-000	51-65253-000							
31-03264-000	11-01264-000	91-09264-000								
31-03267-000	11-01267-000	91-09267-000	51-95291-000	71-07267-000						
31-03268-000	11-01268-000	91-09268-000								
31-03269-000	11-01269-000	91-09269-000								
31-03273-000	11-01273-000	91-09378-000	51-35382-000	71-07273-000						
31-03273-000	11-01273-000	91-09378-000	51-65253-000	71-07274-000					32-R3033-000	
31-03277-000	11-01277-000	91-09378-000	51-35382-000	71-07275-000					32-R3033-000	
31-03277-000	11-01277-000	91-09378-000	51-65253-000							
31-03278-000	11-01278-000	91-09378-000	51-35382-000	71-07276-000						
31-03278-000	11-01278-000	91-09378-000	51-65253-000							
31-03281-000	11-01281-000	91-09373-000								
31-03310-000	11-01310-000	91-09310-000	51-65309-000							

Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-03310-000	11-01310-000	91-09310-000	51-65310-000							
31-03314-000	11-01314-000	91-09317-000	51-05209-000	71-07313-000						
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31-03364-000	11-01364-000	91-09371-000				31-M0087-000			32-R3078-000	

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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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31-03439-000	11-01439-000	91-09440-000	51-65437-000							

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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-03440-000	11-01440-000	91-09440-000	51-65436-000							
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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31-03509-000	11-01509-000	91-09509-000	51-05505-000	71-07509-000						
31-03510-000	11-01510-000	91-09510-000	51-95512-000	71-07510-000						
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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31-03600-000	11-01600-000	91-09593-000	51-65593-000							
31-03600-001	11-01600-001	91-09593-000								
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31-03641-000	11-01641-000	91-09641-000	51-65641-000			31-M0058-000			32-R3051-000	

Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-03918-000	11-01918-000	91-09918-000	52-05917-000	72-07073-000	55-50703-000					
31-03918-000	11-01918-000	91-09918-000	52-05918-000	72-07918-000	55-50707-000					
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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31-04071-000	11-02071-000	91-09071-000	51-06043-000	71-08064-000						
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31-04071-000	11-02071-000	91-09071-000	52-06043-000	72-08064-000	55-50619-000					
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31-04075-000	11-02075-000	91-09075-000	51-06075-000	71-08075-000		31-M0186-000	33-W6062-000		32-R3197-000	
31-04075-000	11-02075-000	91-09075-000	51-06085-000	71-08090-000		31-M0186-000	33-W6062-000		32-R3197-000	
31-04075-000	11-02075-000	91-09075-000	52-06073-000	72-07089-000	55-50616-000	31-M0186-000	33-W6062-000		32-R3197-000	
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31-04076-000	11-02076-000	91-09077-000	51-06068-000	71-08012-000		31-M0186-000	33-W6062-000		32-R3197-000	
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31-04076-000	11-02076-000	91-09077-000	52-06076-000	72-08076-000	55-50606-000					
31-04076-000	11-02076-000	91-09077-000	52-06077-000	72-07160-000	55-50607-000					
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31-04077-000	11-02077-000	91-09077-000	52-06068-000	72-08013-000	55-50617-000					
31-04077-000	11-02077-000	91-09077-000	52-06076-000	72-08077-000	55-50606-000					
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31-04078-000	11-02078-000	91-09075-000	51-06073-000	71-07083-000						
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31-04081-000	11-02081-000	91-09077-000	52-06077-000	72-07062-000	55-50607-000					
31-04082-000	11-02082-000	91-09077-000	51-06068-000	71-08015-000						
31-04082-000	11-02082-000	91-09077-000	51-06077-000	71-07093-000		31-M0187-000				

Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-04082-000	11-02082-000	91-09077-000	51-06078-000	71-08082-000		31-M0187-000				
31-04082-000	11-02082-000	91-09077-000	52-06068-000	72-08015-000	55-50617-000	31-M0187-000				
31-04082-000	11-02082-000	91-09077-000	52-06077-000	72-07093-000	55-50607-000	31-M0187-000				
31-04082-000	11-02082-000	91-09077-000	52-06078-000	72-08082-000	55-50617-000	31-M0187-000				
31-04085-000	11-02085-000	91-09005-000	51-06064-000	71-08552-000		31-M0187-000				
31-04085-000	11-02085-000	91-09005-000	52-06064-000	72-08552-000	55-50612-000					
31-04085-000	11-02085-000	91-09005-000	51-06083-000	71-08550-000						
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31-04087-000	11-02087-000	91-09087-000	51-06054-000	71-08095-000		31-M0620-000	33-W6065-000		32-R3205-000	
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31-04089-000	11-02089-000	91-09089-000	51-06088-000	71-08548-000		31-M0620-000	33-W6065-000		32-R3205-000	
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31-04236-000	11-02236-000	91-09236-000	51-65429-000							
31-04236-001	11-02236-001	91-09236-000								
31-04236-002	11-02236-002	91-09236-000								
31-04237-000	11-02237-000	91-09237-000	51-65429-000							
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31-04239-000	11-02239-000	91-09239-000	51-65499-000							
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31-04354-000	11-02354-000	91-09367-000	51-05190-000	71-07193-000		31-M0087-000			32-R3078-000	
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31-04405-000	11-02405-000	91-09405-000	51-06500-000							
31-04410-000	11-02410-000	91-09410-000	51-05230-000							
31-04428-000	11-02428-000	91-09369-000								
31-04430-000	11-02430-000	91-09430-000	51-05507-000	71-08430-000						
31-04431-000	11-02431-000	91-09430-000	51-05507-000	71-08431-000						

Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-04460-000	11-02460-000	91-09461-000	51-35827-000	71-08460-000						
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31-04463-000	11-02463-000	91-09463-000	51-65837-000							
31-04464-000	11-02464-000	91-09464-000	51-65837-000							
31-04465-000	11-02465-000	91-09465-000	51-35833-000	71-08465-000						
31-04465-000	11-02465-000	91-09465-000	51-65836-000							
31-04466-000	11-02466-000	91-09466-000	51-35848-000	71-08466-000						
31-04466-000	11-02466-000	91-09466-000	51-35849-000	71-08468-000						
31-04466-000	11-02466-000	91-09466-000	51-65839-000							
31-04466-000	11-02466-000	91-09466-000	51-65847-000							
31-04467-000	11-02467-000	91-09467-000	51-35833-000	71-08467-000						
31-04467-000	11-02467-000	91-09467-000	51-65836-000							
31-04469-000	11-02469-000	91-09465-000	51-35833-000	71-08469-000						
31-04469-000	11-02469-000	91-09465-000	51-65836-000							
31-04474-000	11-02474-000	91-09837-000	51-35852-000	71-07820-000						
31-04474-000	11-02474-000	91-09837-000	51-65851-000							
31-04474-000	11-02474-000	91-09837-000	51-65853-000							
31-04522-000	11-02522-000	91-09522-000	51-05911-000	71-07142-000						
31-04522-000	11-02522-000	91-09522-000	52-05911-000	72-07142-000	55-50704-000	31-M0170-000		34-L7017-000	32-R3187-000	25-E8002-000
31-04522-000	11-02522-000	91-09522-000	51-05912-000	71-08522-000		31-M0170-000		34-L7017-000	32-R3187-000	25-E8002-000
31-04522-000	11-02522-000	91-09522-000	52-05912-000	72-08522-000	55-50701-000	31-M0170-000		34-L7017-000	32-R3187-000	25-E8002-000
31-04522-000	11-02522-000	91-09522-000	51-05971-000	71-08529-000		31-M0170-000		34-L7017-000	32-R3187-000	25-E8002-000
31-04522-000	11-02522-000	91-09522-000	52-05911-000	72-07142-000	55-50704-000	31-M0170-000		34-L7017-000	32-R3187-000	25-E8002-000
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31-04525-000	11-02525-000	91-09525-000	51-05911-000	71-08525-000		31-M0170-000		34-L7017-000	32-R3187-000	25-E8002-000
31-04525-000	11-02525-000	91-09525-000	52-05911-000	72-08525-000	55-50704-000	31-M0175-000	33-W6054-000		32-R3187-000	
31-04525-000	11-02525-000	91-09525-000	51-05912-000	71-08524-000		31-M0175-000	33-W6054-000		32-R3187-000	
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31-04528-000	11-02528-000	91-09915-000	52-05918-000	72-08519-000	55-50707-000	31-M0171-000	33-W6053-000		32-R3184-000	
31-04530-000	11-02530-000	91-09915-000	51-05924-000	71-08538-000		31-M0171-000	33-W6053-000		32-R3184-000	
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31-04546-000	11-02546-000	91-09005-000	51-06083-000	71-08546-000						
31-04546-000	11-02546-000	91-09005-000	52-06082-000	72-08547-000	55-50612-000					

Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-04546-000	11-02546-000	91-09005-000	52-06083-000	72-08546-000	55-50612-000					
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31-04550-000	11-02550-000	91-09553-000								
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31-04553-000	11-02553-000	91-09553-000	51-05349-000	71-08553-000						
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31-04586-000	11-02586-000	91-09631-000								
31-04627-000	11-02627-000	91-09479-000	51-05977-000	71-07929-000						
31-04627-000	11-02627-000	91-09479-000	52-05977-000	72-07929-000	55-50706-000					
31-04630-000	11-02630-000	91-09553-000								
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31-04632-000	11-02632-000	91-09038-000								
31-04633-000	11-02633-000	91-09036-000								
31-04635-000	11-02635-000	91-09511-000								
31-04636-000	11-02636-000	91-09046-000								
31-04637-000	11-02637-000	91-09182-000	51-05228-000	71-07178-000						
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31-04648-000	11-02648-000	91-09073-000	52-06079-000	72-08106-000	55-50616-000					
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31-04666-000	11-02666-000	91-09761-000	51-65596-000							
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31-04667-000	11-02667-000	91-09573-000	52-05605-000	72-07606-000	55-50505-000					
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31-04677-000	11-02677-000	91-09710-000	51-05684-000	71-07026-000						
31-04677-000	11-02677-000	91-09710-000	52-05684-000	72-07026-000	55-50510-000					

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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-04677-000	11-02677-000	91-09710-000	52-05684-000	72-07026-000	55-50510-000					
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31-04708-000	11-02708-000	91-09708-000	52-05653-000	72-08708-000	55-50509-000					
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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-04711-000	11-02711-000	91-09650-000	51-05650-000	71-07012-000		31-M0051-000				
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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-04728-000	11-02728-000	91-09650-000	52-05657-000	72-08728-000	55-50509-000					
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31-04747-000	11-02747-000	91-09719-000	51-05615-000	71-08766-000						

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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
31-04747-000	11-02747-000	91-09719-000	52-05615-000	72-08766-000	55-50503-000					
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31-04829-000	11-02829-000	91-09416-000								
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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Product Indexes

Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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Piston+Ring Reference No	Piston Reference No	Ring Reference No	Cylinder Liner Reference No	Kit Reference No	O-Ring Reference No	Main Bearing	Trust Washer	Rod Bushing	Conrod Bearing	Camshaft Bushings
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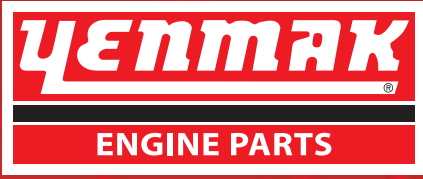


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