

CATALOGUE 10



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ÍNDICE



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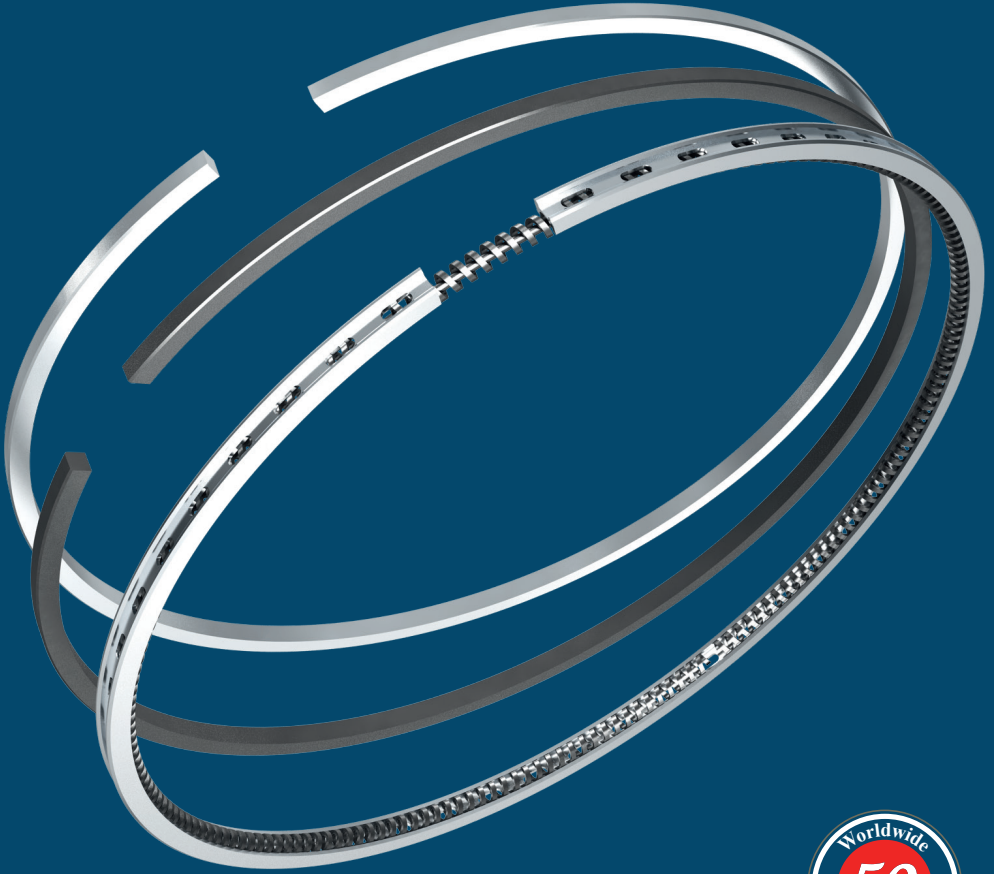


ИНДЕКС



İNDEKS

POWER SEAL[®]
PISTON RINGS



PISTON RING SET CATALOGUE

PRODUCED BY  SAMSUN SEGMAN SANAYİ

www.samsunsegman.com



EN

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/// SAMSUN SEGMAN SANAYİ

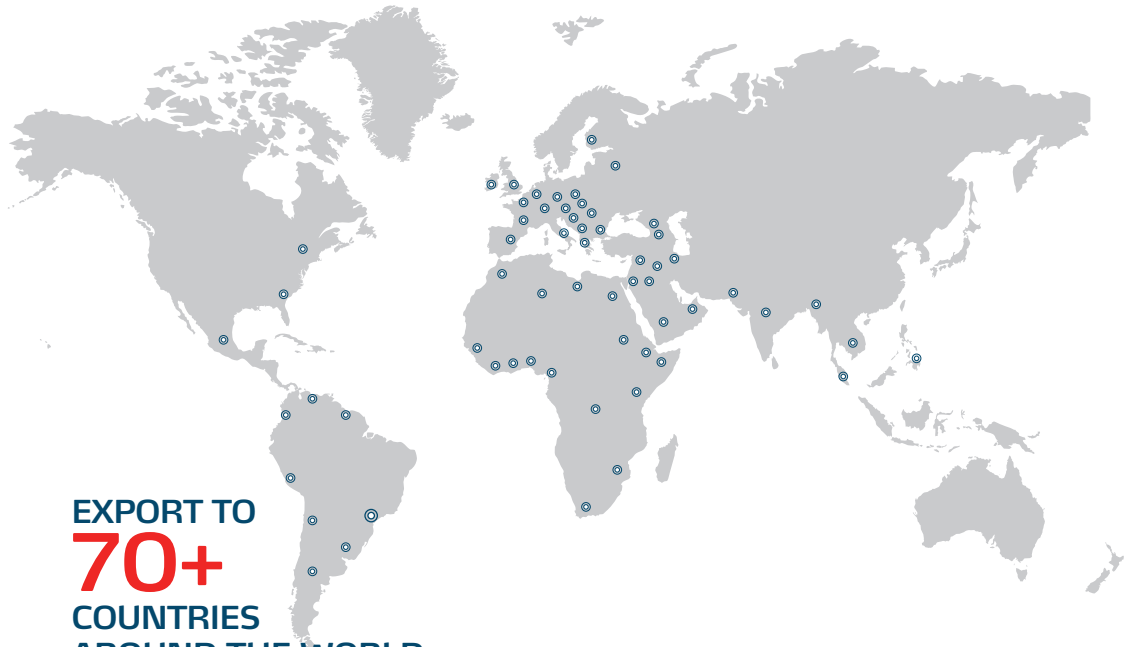
Today, Samsun Segman Sanayi is using cutting edge technology for producing the highest quality piston rings. The Company is OEM supplier of various air & brake compressor manufacturers and engine factories.

SSS works to establish long-term partnerships with each and every customer and will continue to seek out professional distribution partnerships in the key markets.

We believe this will carry SSS and our customers, well into a shiny future.

HISTORY MILESTONES

- 1953** Ahmet Hidayetoğlu, the first generation, has started the manufacturing of piston rings and liners locally.
- 1965** First production of piston rings for marine engines and water pumps had been done.
- 1987** Samsun Segman Sanayi Ltd. Co. has been founded and company strategically decided to specialize in piston ring production.
- 1988** The first factory building has been built in Samsun , Turkey.
- 1989** The global distribution of the products has started.
- 1992** The first showroom of Samsun Segman Sanayi piston rings has been opened in Istanbul.
- 1994** SSS piston rings quality is assured by the Turkish Standards Institute (TSE)
- 2002** SSS logo has been replaced with POWERSEAL brand and introduced to global market.
- 2003** ISO 9001-2000 Quality System Certificate is given to our company.
- 2005** Powerseal product range has become very wide by including car, tractor, truck, bus, commercial vehicles, marine, locomotive engine and air / brake compressor piston rings.
- 2008** Became an OEM supplier of engine and air/brake compressor manufacturers around the world.
- 2014** Achieved to have distributors in 70 different countries.
- 2015** The production of steel oil rings for diesel engines has started.
- 2016** IATF 16949:2016 certificate is given to our company.
- 2017** Powerseal brand introduced its new visual identity and packaging.
- 2019** SSS built this new and modern production facility in 10,000 m² area.
- 2022** EAC, Russia & Inmetro, Brazil technical conformity certificates are successfully obtained.
- 2023** We started to produce our own electricity by investing in renewable energy in the name of reducing our carbon footprint and sustainability.

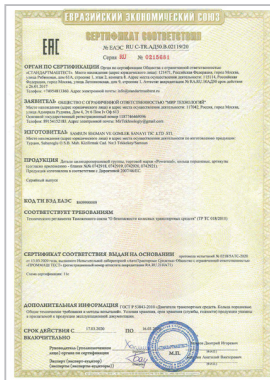


EXPORT TO
70+
 COUNTRIES
 AROUND THE WORLD

MORE THAN **50** YEARS OF EXPERIENCE

CERTIFICATES

Our Quality & Conformity Certificates





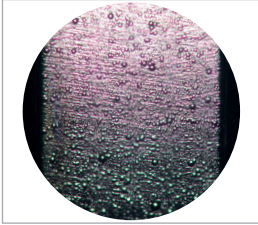
WHY POWERSEAL?

Super finished rings for short running in period

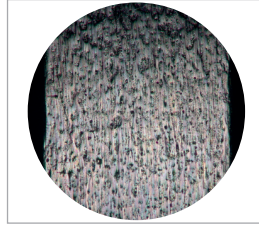
Powerseal: Yes ✓

Some competitors : Make no Super Finishing (costly process), which makes their ring surface rough. Rough ring's running in period is long and can scratch liner, which will result in power loss.

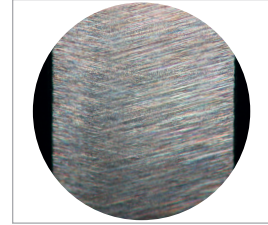
X50 magnified



Competitor A-No Finishing



Competitor B-Polished



Powerseal-Super finished

Ductile iron material against breakage for chromium coated rings

Powerseal: Yes ✓

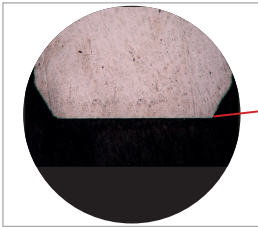
Some competitors : Make chromium coated rings from gray cast iron, which is easily broken during assembling or in heavy duty diesel engines.

Thick chromium layer for long life

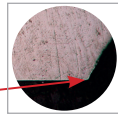
Powerseal: Yes ✓

Some competitors : Thin 20 – 40 micron chrome layer which cause ring life to be shorter.

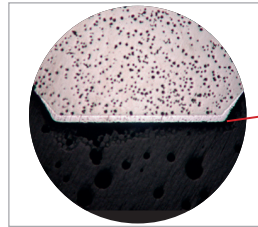
X50 magnified



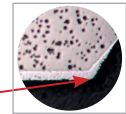
Competitor A - Less than 20 micron



Very thin chrome layer



Powerseal - 100 micron



Thick chrome layer

Own dedicated piston ring foundry

Powerseal: Yes ✓

Some competitors : Have no foundry. Since they outsource that process, they have limited or no control on the material.

Fast delivery, from 1 day to maximum 6 weeks

Powerseal: Yes ✓

Some competitors : Supply in 2 – 3 months.

Fast moving items always in stock

Powerseal: Yes ✓

Some competitors : Keep no stock.

PISTON RING TYPES



TOP RING

COMPRESSION RING

OIL CONTROL RING

THERE ARE MAINLY TWO TYPES OF PISTON RINGS

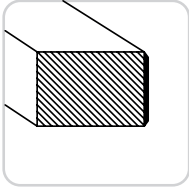


- I COMPRESSION RINGS
- II OIL CONTROL RINGS

Almost all pistons which are installed in today's engines have two compression rings. One in the top groove, the other in the second groove and an oil ring in the third groove. Often a scraper ring is installed as the second ring or lower compression ring.

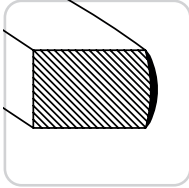


1 TOP RINGS



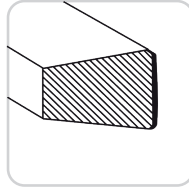
RECTANGULAR RING

R



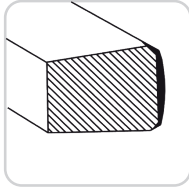
BARREL FACE RING

B



KEYSTONE RING

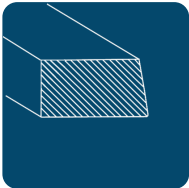
T



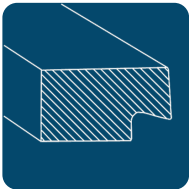
HALF KEYSTONE RING

HK

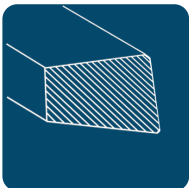
2 COMPRESSION RINGS



TAPER - FACED RING
M



TAPER - FACED SCRAPER RING
NM



TAPER - FACED KEYSTONE RING
TM



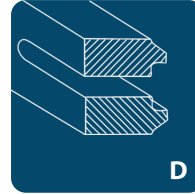
3 OIL RINGS



SLOTTED OIL RING



G



D



S



OIL RING WITH SPIRAL COIL SPRING

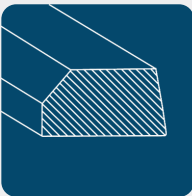
DSF
GSF
DSFST (STEEL)



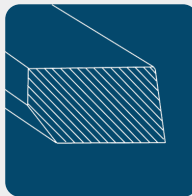
MULTIPIECE STEEL OIL RING

SLF

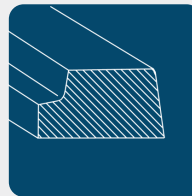
EDGE FEATURES OF COMPRESSION RINGS



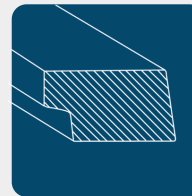
INSIDE BEVEL
IF



**INSIDE BEVEL
BOTTOM SIDE**
IFU

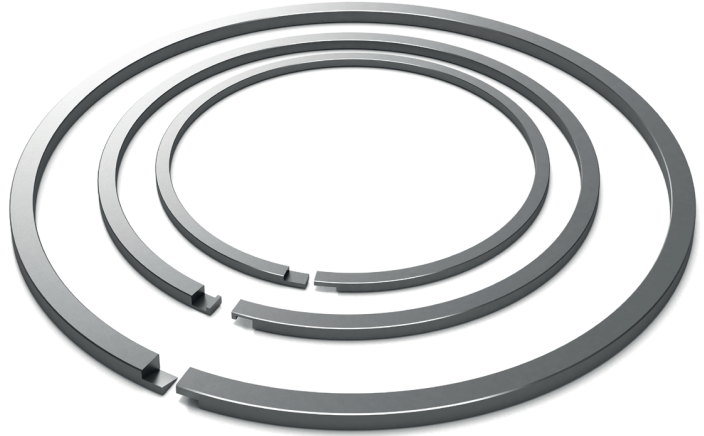


INSIDE STEP
IW



**INSIDE STEP
BOTTOM SIDE**
IWU

JOINT RING TYPES



SH: STEP JOINT HOOKED



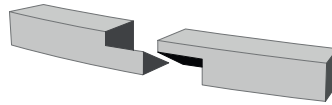
SO: STEP JOINT OVERLAPPING (IN FREE POSITION)



S: STEP JOINT (IN FREE POSITION)



SA: STEP JOINT ANGLED



SDC: STEP JOINT DIAGONAL CUT



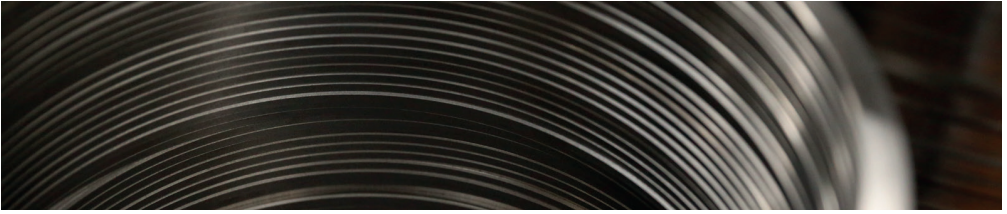
SDCL: LEFT



SDCR: RIGHT

i For ring joint types and requests please contact us.

COATING



PHOSPHATING (P) : PHOSPHATE COATING ON ALL SURFACES

With phosphating, crystalline phosphates are deposited on all surfaces of the piston rings except chrome – plated areas.

The phosphate layer has a thickness of 0.002 – 0.005 mm. and improves the running in behaviour of the piston ring by increasing the adhesion of the oil.

Furthermore, the phosphate layer has a certain anti-corrosive effect during long storage periods even under damp conditions.

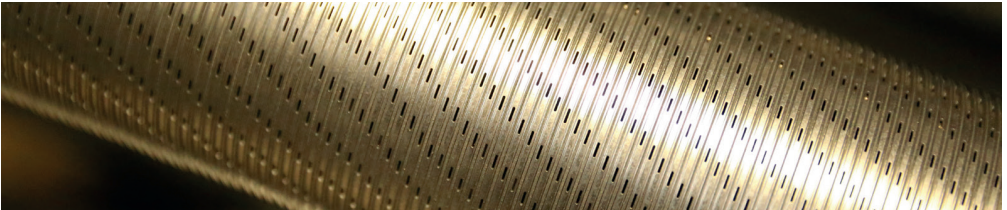
CHROME PLATING (CR) : RUNNING SURFACE CHROME-PLATED AND LAPPED

The electroplated chromium layer reduces wear on both the piston ring itself and on its friction partner, the running surface of the cylinder or liner. It thus helps to ensure that the total life of both the piston ring set and the engine are similar.

Both compression and oil control rings can be chrome plated.

NITRIDING (NIT) :

In this processes, nitrogen atoms penetrate and diffuse into the base metal, significantly increasing the surface hardness. This coating mostly used for steel top and oil rings. While it offers very good wear resistance, its scuff resistance is similar to chrome coating.

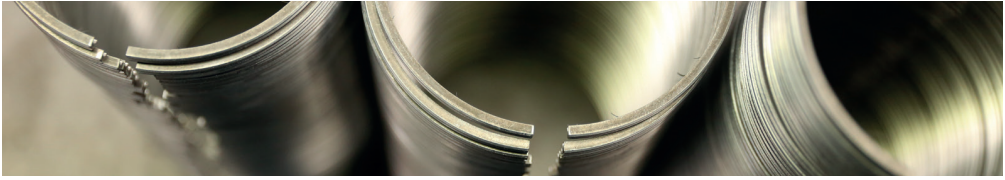


MATERIALS

There are several kinds of material used in manufacturing Powerseal Piston Rings:

- I) KG: CAST IRON WITH SPHEROIDAL GRAPHITE
- II) LG: CAST IRON WITH LAMELLAR GRAPHITE
- III) ST: STEEL

All top and almost all oil rings in POWERSEAL Piston Ring sets are made of nodular cast iron or a special steel to ensure quality and superiority.



FUNCTIONS

Piston rings must complete 3 principal functions in engines:

- 1) Seal off the combustion chamber from the crankcase
- 2) Limit and control oil consumption
- 3) Transfer the heat absorbed by the piston in the combustion process to the cooled cylinder walls.

COMPRESSION RINGS

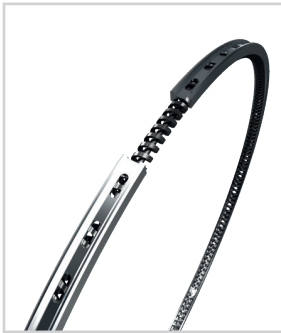
The compression rings handle the sealing function of the pressure created in the combustion chamber and transfer heat to the cooled cylinder walls like a bridge. They also control oil consumption.



OIL CONTROL RINGS

Oil control rings regulate and limit oil consumption. They scrape off excess lubricating oil from the cylinder walls and return it to the crankcase.

They are designed to provide a thin oil film to ensure piston and ring lubrication.



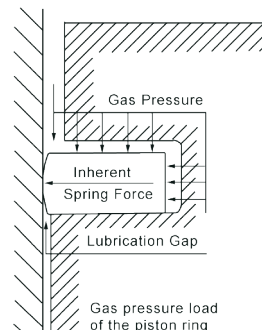
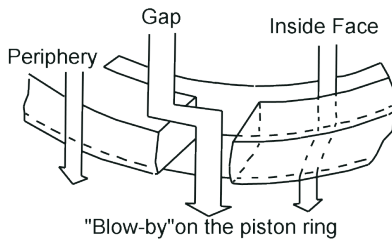
Improper oil control results in cooking (carbon residues) or blue smoke in the exhaust gas and results excessive oil consumption.

The scraper or second compression ring behaves as both a compression ring and an oil control ring.

The radial spring force in the installed ring is intensified in the engine operation by the gas pressure behind the ring.

The axial contact along the side of the piston groove is essentially the result of the gas pressure on the side of the ring.

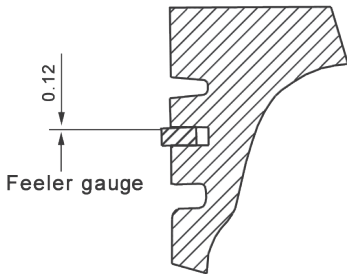
The sealing surface of this sealing system must be of extremely high surface quality. The grooves must have slightest width tolerances.



INSTALLATION RECOMMENDATIONS FOR POWERSEAL PISTON RINGS

1) FIRST CLEAN THE PISTONS thoroughly and remove all carbon deposits from the ring groove and oil drain holes. Be sure that groove sides or groove radii are not damaged, so that leaks will be prevented. Replace cracked or deformed and worn pistons.

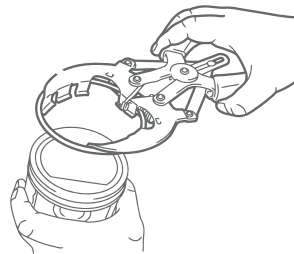
2) CHECK PISTON RING GROOVES. If a clearance of 0.12 mm. or more is measured between a new parallel sided ring and the associated groove wall, it means that the piston is highly worn and must be replaced.



Groove clearance (mm)	Piston Usage
0,05 - 0,10	Piston can be re-used without restriction
0,11 - 0,12	More caution necessary
> 0,12	New pistons essential

3) CHECK THE CYLINDER WEAR. If the cylinder wear exceeds 0.10 mm. for spark ignition engines and 0.15 mm. for diesel engines, the cylinder also must be changed. Carbon deposits must be removed from the top area of the cylinder bore.

4) INSTALL THE RINGS, starting with the bottom ring using a suitable piston ring expander (tool). Do not over expand the rings for they can be deformed plastically and will no longer form a perfect seal. "TOP" stamped rings must be in such a way that "TOP" stamp or any marking faces the piston crown. With coil spring loaded oil control rings, the spring gap must be staggered 180°.



5) AFTER THE RINGS ARE ASSEMBLED, twist them so that the ring gaps are staggered around the piston circumference (120° apart in case of 3 rings, 90° apart in case of 4 rings).

6) BEFORE ASSEMBLING the piston with rings, lubricate the bearing surfaces with clean engine oil to prevent damage caused by dry running. Press the piston rings into the grooves using a ring compressor and carefully slide the piston into the cylinder bore.

7) CLEANLINESS DURING INSTALLATION IS EXTREMELY IMPORTANT to guarantee trouble-free operation of the engine. Make sure that air, oil and fuel are effectively filtered or clean. Only the recommended oil and fuel by the engine and vehicle manufacturers must be used.

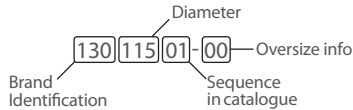
8) DO NOT USE CHROME PLATED RINGS IN CHROME PLATED LINERS



HOW TO ORDER

To order piston ring sets listed in this catalogue, it is sufficient to state the part number.
Additional details of the engine type may be useful but not essential.

e.g Rings required : Piston ring sets Daimler-Benz OM 360,
diam. 115 mm STD size
Your order should read : 13011501-00



SPECIAL SIZES & ORDERS

If you can not find the piston ring or any oversize that you are looking for in the catalogue, please contact us.



IDENTIFICATION MARKS FOR OVERSIZES

Mark.	mm.	inch.
00	= STD	= STD
04	= +0.20	
05	= +0.25	=+0.010"
06	= +0.40	=+0.015"
07	= +0.50	=+0.020"
08	= +0.60	=+0.025"
09	= +0.75	=+0.030"
10	= +0.80	=+0.035"
11	= +1.00	=+0.040"
13	= +1.25	=+0.050"
14	= +1.50	=+0.060"
16	= +2.00	=+0.080"

EXAMPLE

D-BENZ OM 352

Part. No	Cyl. Dia(mm)	(mm)
13009702-00	97.00	STD
13009702-05	97.25	+0.25
13009702-07	97.50	+0.50
13009702-09	97.75	+0.75
13009702-11	98.00	+1.00
13009702-14	98.50	+1.50



IMPORTANT NOTICE

This catalogue has been compiled and controlled very carefully. Nevertheless, we are not liable for any mistakes or omissions. Furthermore, we reserve the right to make technical alterations in ring specifications resulting from the constant technological development in the field of piston rings.

The choice of ring sets offered in our catalogue is subject to constantly changing. Should you be looking for ring sets which are not mentioned in this catalogue, please ask our staff. Upon release of this catalogue all earlier versions will become invalid.

It is not allowed to reprint or copy this catalogue or parts thereof. All pictures as well as the complete design are copyrighted. Names, descriptions and other data of vehicles and manufacturers are mentioned for comparison purposes only.

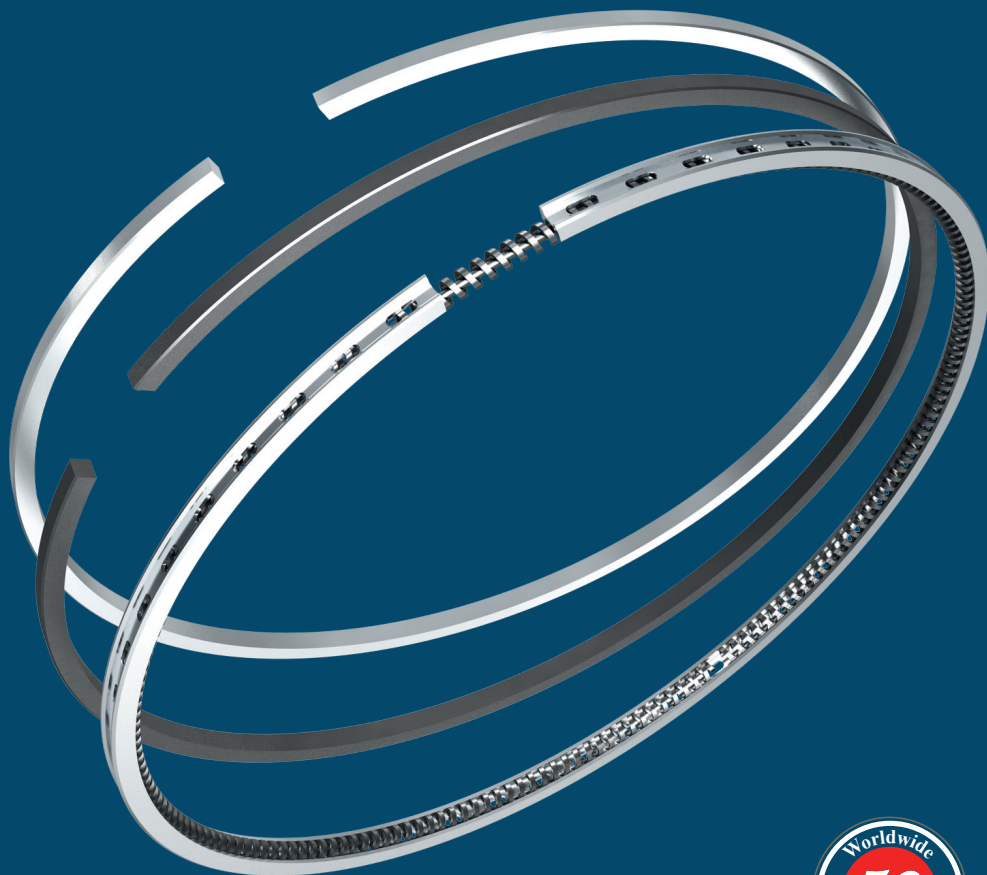
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The catalogue is not an operating manual for the use and installation of piston rings. It does not contain any advice in a legal sense.

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POWER SEAL[®]
PISTON RINGS



CATÁLOGO DE JUEGOS DE ANILLOS DE PISTÓN

PRODUCIDO POR  SAMSUN SEGMAN SANAYİ

www.samsunsegman.com



ES

CATÁLOGO 10

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SAMSUN SEGMAN SANAYİ

En la actualidad, Samsun Segman Sanayi se vale de la mas alta tecnología disponible para fabricar aros de pistón de las mas alta calidad.

La compañía abastece equipos originales OEM para varias fabricas de motores y compresores.

El objetivo de SSS es establecer parcerías de largo plazo con cada uno de los clientes y buscando constantemente alianzas con distribuidores en los principales mercados.

Creemos que esta acción, llevará a SSS y a sus clientes a un futuro próspero.

HITOS IMPORTANTES

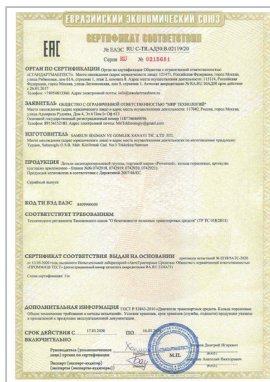
- 1953** Ahmet Hidayetoğlu, la primera generación, comienza la fabricación de aros y camisas.
- 1965** Primera producción de aros de pistón para motores marinos y bombas de agua.
- 1987** Samsun Segman Sanayi Ltd. Co. fué fundada con el objetivo estratégico de especializarse en la fabricación de aros de pistón para aplicaciones marinas, motores de locomotoras y compresores para frenos de aire.
- 1988** La nueva fábrica se construye en la ciudad de Samsun, Turquía.
- 1989** La distribución global de productos empieza.
- 1992** El primer local de Samsun Segman Sanayi abre en Estambul.
- 1994** La calidad de los aros SSS es asegurada por el Instituto Turco de Normas (TSE)
- 2002** El logo SSS es reemplazado por POWERSEAL e introducido en el mercado mundial.
- 2003** El certificado de calidad ISO 9001-2000 es otorgado a la compañía.
- 2005** La variedad de los productos se amplía, incluyendo aplicaciones para automoviles de paseo, tractores, camiones, omnibus, vehículos comerciales, marinas, locomotoras y compresores de aire.
- 2008** Se torna proveedor de OEM (equipo original) de fabricantes de motores y compresores de aire alrededor del mundo.
- 2014** Establece distribución en 70 paises.
- 2015** Inicia la producción de aros de compresión y de control de aceite de acero.
- 2016** El certificado IATF 16949:2016 es obtenido por la compañía.
- 2017** Powerseal introduce nueva identidad visual y embalajes.
- 2019** SSS construyó esta nueva y moderna planta de producción en un área de 10.000 m².
- 2022** Los certificados de conformidad técnica de EAC, Rusia e Inmetro, Brasil se obtienen con éxito.
- 2023** Comenzamos a producir nuestra propia electricidad invirtiendo en energía renovable en nombre de la reducción de nuestra huella de carbono y la sostenibilidad.



**EXPORTA
PARA
70+
PAISES
ALREDEDOR DEL MUNDO**

Mas de **50** Años de Experiencia

NUESTROS CERTIFICADOS DE CALIDAD





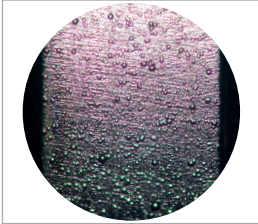
PORQUE POWERSEAL ?

Aros super acabados para lograr un período rápido de adaptación.

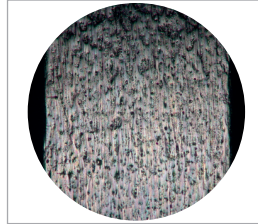
Powerseal : Si ✓

Algunos competidores: no hacen el super terminado lo que ocasiona una superficie áspera. Aros de alta rugosidad superficial aumentan el tiempo de asentado además de ocasionar posibles daños en la camisas lo que lleva a pérdida de potencia.

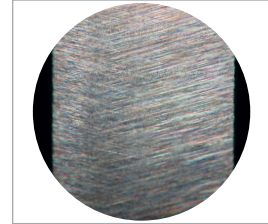
Ampliado x50



Competidor A - sin terminación



Competidor B - pulido



Powerseal – Super terminación.

Fundición Nodular para evitar la quiebra de aros cromados.

Powerseal : Si ✓

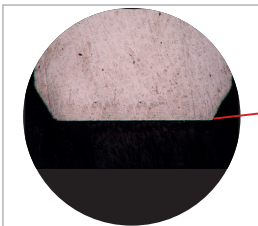
Algunos competidores: Fabrican aros con cobertura de Cromo de fundición gris laminar. Este tipo de aro se quiebra facil en el proceso de montaje y en motores Diesel.

Camada gruesa de Cromo para mayor vida util.

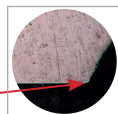
Powerseal : Si ✓

Algunos competidores: Aplican capas de Cromo delgadas de 20 a 40 Micrones, obteniendo como resultado poca durabilidad.

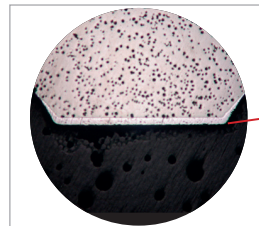
Ampliado x50



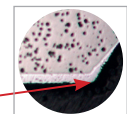
Firma A - Menos de 20 micrones



Capa de cromo muy fina



POWERSEAL – 100 MICRAS



Capa gruesa de cromo

Fundición propia dedicada.

Powerseal : Si ✓

Algunos competidores: No tienen fundición propia, lo que no permite un control rígido del material.

Entrega rápida, de 1 día hasta máximo de 6 semanas.

Powerseal : Si ✓

Algunos competidores: tardan en 2 a 3 meses

Artículos de rápido movimiento siempre en stock.

Powerseal : Si ✓

Algunos competidores no tienen stock

Tipos de anillos de pistón



Aro superior

Aro de compresión

Aro de control de aceite

HAY BASICAMENTE DOS TIPOS DE AROS DE PISTON



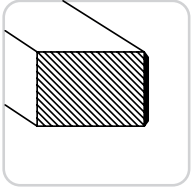
I Aro de compresión

II Aro de control de aceite

Casi todos los pistones de los motores modernos tienen dos aros de compresión. Uno en la primera canaleta, otro en la segunda y un aro de control de aceite en la tercera. Generalmente un aro rascador es instalado como segundo aro.

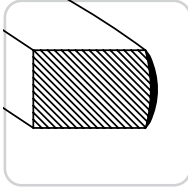


1 ARO SUPERIOR



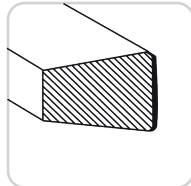
ARO DE SECCIÓN RECTANGULAR

R



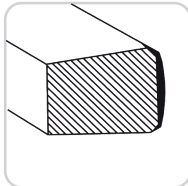
SEGMENTO CARA DEL BARRIL

B



SEGMENTO TRAPEZOIDAL

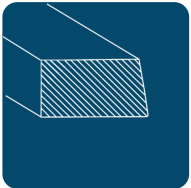
T



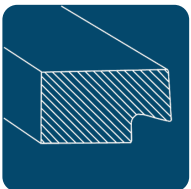
SEGMENTO SEMI-TRAPEZOIDAL

HK

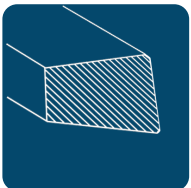
2 AROS DE COMPRESIÓN



SEGMENTO DE PERIFERIA CÓNICA
M



SEGMENTO RASCADOR DE PERIFERIA CÓNICA CON ESCALÓN
NM

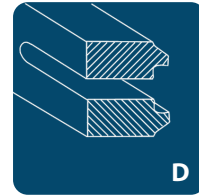


SEGMENTO DE CLAVE TRAPEZOIDAL CON SUPERFICIE CÓNICA
TM



3 ARO DE CONTROL DE ACEITE

SEGMENTO RASCADOR DE ACEITE CON RESORTE ESPIRAL



SEGMENTO RASCADOR DE ACEITE CON RESORTE ESPIRAL

DSF
GSF
DSFST (Acero)

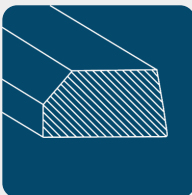


SEGMENTO RASCADOR DE LÁMINAS DE ACERO CON RESORTE ESPIRAL

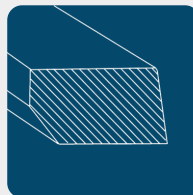
SLF



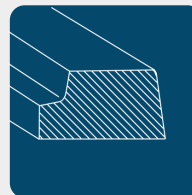
CARACTERÍSTICAS DE BORDE DE LOS ANILLOS DE COMPRESIÓN



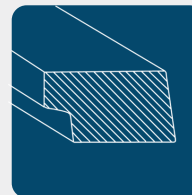
CHAFLÁN
INTERIOR
IF



CHAFLÁN
INTERIOR, ABAJO
IFU

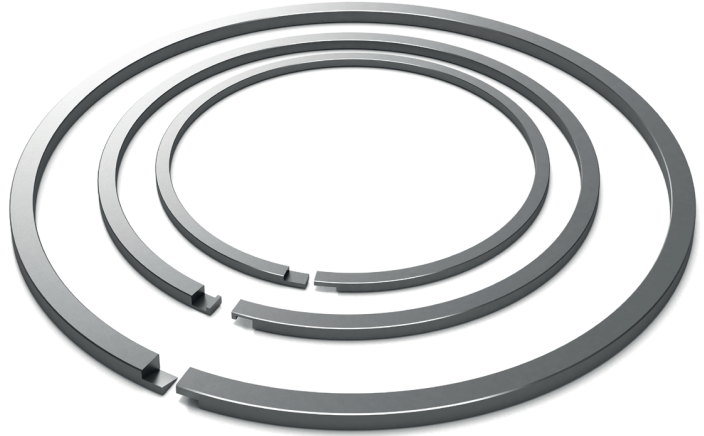


ESCALÓN
INTERIOR
IW



ESCALÓN
INTERIOR, ABAJO
IWU

TIPOS DE
ANILLOS DE
ARTICULACIÓN



**SH: SOLAPAMIENTO CORTE ESCALONADO
(EN POSICIÓN LIBRE)**



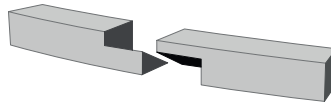
SO: CORTE ESCALONADO (EN POSICIÓN LIBRE)



S: CORTE ESCALONADO



SA: MITRE STEP



SDC: CORTE EN ÁNGULO



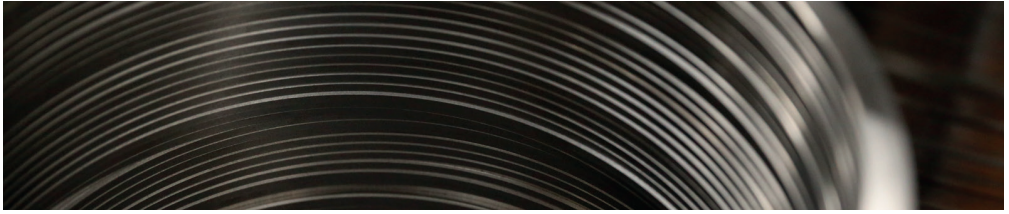
SDCL: IZQUIERDA



SDCR: DERECHA

i Para tipos de juntas de anillo y solicitudes, póngase en contacto con nosotros.

REVESTIMIENTO



FOSFATO (P): COBERTURA DE FOSFATO EN TODAS LAS SUPERFICIES

Los cristales de fosfato se depositan en todas las superficies de los aros menos en las partes cromadas.

La camada de fosfato tiene un espesor de 0,002 a 0,005mm, favoreciendo al asentamiento por medio de la retención de aceite.

Además el fosfato tiene un efecto anti corrosivo, indicado para almacenamiento prolongado y en ambientes húmedos.

CROMADO (CR): SUPERFICIE DE CONTACTO CROMADA Y LAPIDADA

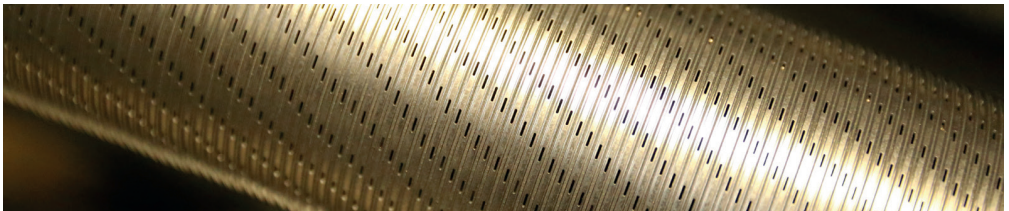
La camada de Cromo reduce el desgaste del propio aro y también de la camisa de cilindro. Ayudando a asegurar una duración similar a los aros y al motor.

Los aros de compresión y de control de aceite pueden ser cromados.

NITRURADO (NIT):

Por este proceso, los átomos de Nitrógeno, penetran y se difunden en el metal base, aumentando significativamente la dureza superficial.

Este recubrimiento se usa básicamente en aros de compresión y de control de aceite de acero. Proporciona una muy buena resistencia al desgaste y al rayado, similar a la del Cromado.



MATERIALES

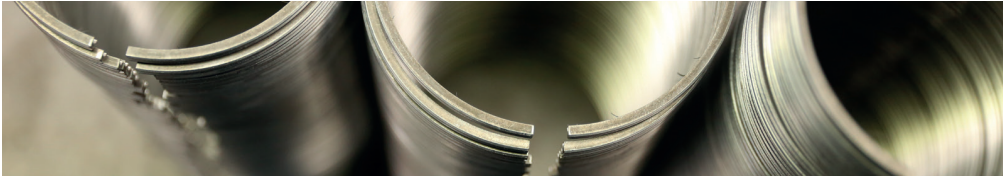
Fabricamos dos tipos de materiales para los aros de pistón Powerseal en nuestra fundición de acuerdo a normas ISO 6621-3

1) Fundición Nodular (KG) ISO clase 50 con grafito esferoidal. Material muy resistente a la rotura, resiste altas temperaturas y presiones.

2) Fundición Gris aleada (LG):ISO clase 20 con grafito laminar. Este es el material Standard que posee muy buenas características lubricantes.

3) Acero (ST): ISO clase 60, fino, liviano y con mejor rendimiento a altas R.P.M.

Todos los aros de compresión y de control de aceite cromados Powerseal son fabricados en Fundición Nodular lo que asegura alta calidad y durabilidad.



FUNCIONES

Los anillos de pistón deben cumplir 3 funciones principales en los motores:

- 1) Sellar la cámara de combustión del cárter
- 2) Limite y controle del consumo de aceite
- 3) Transferir el calor absorbido por el pistón en el proceso de combustión a las paredes del cilindro enfriadas

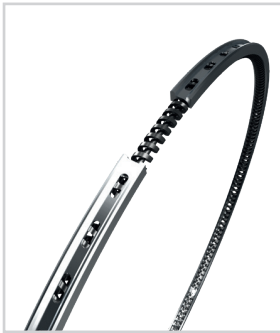
ARO DE COMPRESSION

Los anillos de compresión manejan la función de sellar la presión creada en la cámara de combustión y transfieren calor a las paredes cilíndricas como un puente. También controlan el consumo de aceite.



ARO DE CONTROL DEL ACEITE

Los anillos de control de aceite regulan y limitan el consumo de aceite. Raspan el exceso de aceite lubricante de las paredes del cilindro y lo devuelven al cárter. Están diseñados para proporcionar una fina película de aceite para garantizar la lubricación del pistón y el anillo.



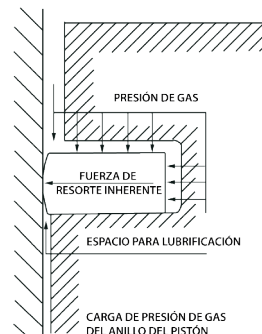
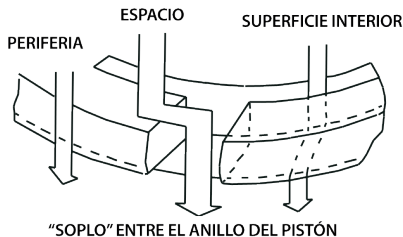
El control inadecuado del aceite resulta en cocción (residuos de carbón) o humo azul en los gases de escape y resulta en un consumo excesivo de aceite.

El raspador o segundo anillo de compresión se comporta como un anillo de compresión y un anillo de control de aceite.

La fuerza del resorte radial en el anillo instalado se intensifica en el funcionamiento del motor por la presión del gas detrás del anillo.

El contacto axial a lo largo del costado de la ranura del pistón es esencialmente el resultado de la presión del gas en el costado del anillo.

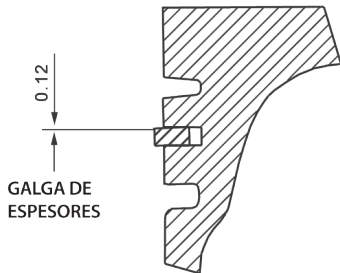
La superficie de sellado de este sistema debe tener una calidad superficial extremadamente alta. Las ranuras deben tener mínimas tolerancias de ancho.



RECOMENDACIONES DE INSTALACIÓN PARA ANILLOS DE PISTÓN POWERSEAL

1) PRIMERO LIMPIAR LOS PISTONES a fondo y eliminar todos los depósitos de carbón de la ranura del anillo y los orificios de drenaje de aceite. Asegúrese de que los lados de la ranura o los radios de la ranura no estén dañados para evitar fugas. Reemplace los pistones agrietados o deformados y desgastados.

2) COMPRUEBE LAS RANURAS DEL ANILLO DEL PISTÓN. Si una holgura de 0,12 mm. o más entre un nuevo anillo de lados paralelos y la pared de la ranura asociada, significa que el pistón está muy desgastado y debe ser reemplazado.



Ranura holgura (mm)	Uso del pistón
0,05 - 0,10	Pistón se puede reutilizar sin restricciones
0,11 - 0,12	Más precaución necesaria
> 0,12	Imprescindibles pistones nuevos

3) CONTROLAR EL DESGASTE DEL CILINDRO. Si el desgaste del cilindro supera los 0,10 mm. para motores de encendido por ignición y 0,15 mm. para los motores diesel, también se debe cambiar el cilindro. Los depósitos de carbón deben eliminarse del área superior del orificio del cilindro.

4) INSTALAR LOS ANILLOS, comenzando con el anillo inferior utilizando un expansor de anillos de pistón adecuado (herramienta). No expanda demasiado los anillos porque pueden deformarse plásticamente y ya no formarán un sello perfecto. Los anillos estampados "TOP" deben estar de tal manera que el sello "TOP" o cualquier marca mire hacia la corona del pistón. Con anillos de control de aceite cargados con resortes helicoidales, el espacio del resorte debe estar escalonado 180°.



5) DESPUÉS DE MONTAR LOS ANILLOS, gírelos de modo que los espacios de los anillos queden escalonados alrededor de la circunferencia del pistón (120° de separación en el caso de 3 anillos, 90° de separación en el caso de 4 anillos).

6) ANTES DE MONTAR el pistón con los anillos, lubrique las superficies de apoyo con aceite de motor limpio para evitar daños causados por el funcionamiento en seco.

Presione los anillos del pistón en las ranuras con un compresor de anillos y deslice con cuidado el pistón en el orificio del cilindro.

7) LIMPIEZA DURANTE LA INSTALACIÓN ES MUY IMPORTANTE para garantizar el funcionamiento sin problemas del motor. Asegúrese de que el aire, el aceite y el combustible estén bien filtrados o limpios.

Solo se debe utilizar el aceite y el combustible recomendados por los fabricantes del motor y del vehículo.

8) NO UTILICE ANILLOS CROMADOS EN CAMISAS DE REVESTIMIENTOS CROMADOS



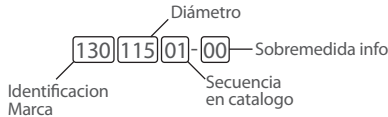
COMO PEDIR

Para pedir juegos de anillos de pistón enumerados en este catálogo, es suficiente indicar el número de pieza. Los detalles adicionales del tipo de motor pueden ser útiles, pero no es esencial.

p.ej. Anillos necesarios: Juegos de anillos de pistón Daimler-Benz OM 360,

diámetro Tamaño estándar de 115 mm

Su pedido es: 13011501-00



TAMAÑO Y ORDEN ESPECIALES

Si no encuentra el segmento de pistón o cualquier sobremedida que busca en el catálogo, póngase en contacto con nosotros.



MARCAS DE IDENTIFICACIÓN PARA SOBREMEDIDA

EJEMPLO

Mark.	mm.	inch.
00	= STD	= STD
04	= +0.20	
05	= +0.25	=+0.010"
06	= +0.40	=+0.015"
07	= +0.50	=+0.020"
08	= +0.60	=+0.025"
09	= +0.75	=+0.030"
10	= +0.80	=+0.035"
11	= +1.00	=+0.040"
13	= +1.25	=+0.050"
14	= +1.50	=+0.060"
16	= +2.00	=+0.080"

D-BENZ OM 352

Num. Parte	Dia Cil.(mm)	(mm)
13009702-00	97.00	STD
13009702-05	97.25	+0.25
13009702-07	97.50	+0.50
13009702-09	97.75	+0.75
13009702-11	98.00	+1.00
13009702-14	98.50	+1.50



NOTICIA IMPORTANTE

Este catálogo ha sido compilado y controlado con mucho cuidado. Sin embargo, no somos responsables de ningún error o omisión. Además, nos reservamos el derecho de realizar modificaciones técnicas en las especificaciones de los segmentos como resultado del constante desarrollo tecnológico en el campo de los segmentos de pistón.

La elección de juegos de anillos que se ofrecen en nuestro catálogo está sujeta a cambios constantes. Si está buscando juegos de anillos que no se mencionan en este catálogo, consulte a nuestro personal. Tras el lanzamiento de este catálogo, todas las versiones anteriores dejarán de ser válidas.

No está permitido reimprimir o copiar este catálogo o partes del mismo. Todas las imágenes, así como el diseño completo, tienen derechos de autor. Los nombres, descripciones y otros datos de vehículos y fabricantes se mencionan solo con fines comparativos.

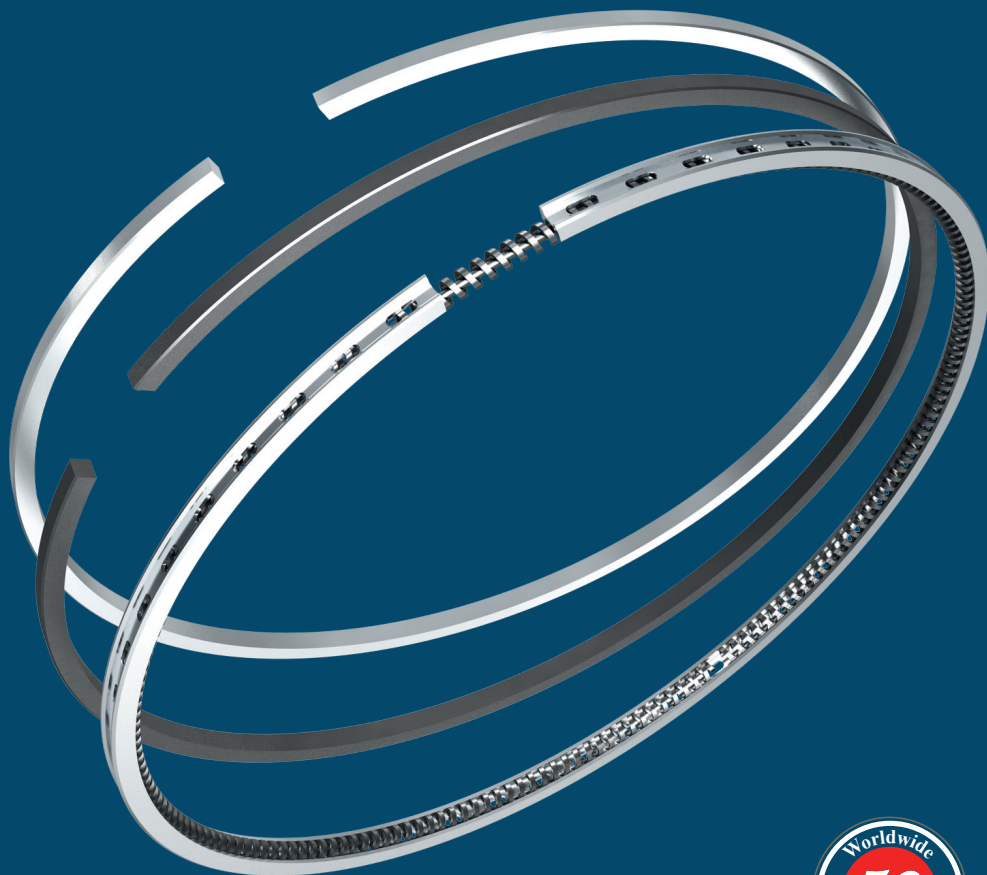
La reproducción de este catálogo o partes del mismo solo está permitida con nuestro permiso explícito por escrito. Quedan expresamente excluidas las reclamaciones por daños y perjuicios, de cualquier forma, que resulten de los detalles incluidos en este catálogo o del uso, aplicación, almacenamiento o manipulación incorrectos.

El catálogo no es un manual de instrucciones para el uso y la instalación de anillos de pistón. No contiene ningún consejo en un sentido legal.

MARCA	PÁGINA
ALFA ROMEO	1
ANDORIA	5
ATLAS COPCO	6
AUDI	6 Pf consultar VAG
BBC	6 Pf consultar COMPRESSORS
BEDFORD	7
BELARUS	8
BLMC	8
BMW	11
BUKH	17
CATERPILLAR	17
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CHRYSLER	20
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POWERSEAL[®]
PISTON RINGS



CATÁLOGO DE JOGO DE ANÉIS DE PISTÃO

PRODUZIDO POR  SAMSUN SEGMAN SANAYİ

www.samsunsegman.com



PT

CATALOGO 10

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Tipos de juntas	VIII
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Como pedir	XII
Índice por Marca	XIII





/// SAMSUN SEGMAN SANAYİ

Atualmente, Samsun Segman Sanayi utiliza tecnologia de ponta para produzir anéis de pistão da mais alta qualidade. A empresa é fornecedora OEM de vários fabricantes de compressores de ar e freio e fábricas de motores.

A SSS trabalha para estabelecer parcerias de longo prazo com cada cliente e continuará buscando parcerias de distribuição profissional nos principais mercados.

Acreditamos que isso levará a SSS e nossos clientes a um futuro brilhante.

MARCOS DA NOSSA HISTORIA

- 1953** Ahmet Hidayetoğlu, a primeira geração, iniciou a fabricação de anéis de pistão e camisas.
- 1965** A primeira produção de anéis de pistão para motores marítimos e bombas de água foi iniciada.
- 1987** Samsun Segman Sanayi Ltd. Co. foi fundada e a empresa estrategicamente decidiu se especializar na produção de anéis de pistão.
- 1988** O primeiro prédio da fábrica foi construído em Samsun, na Turquia.
- 1989** A distribuição global dos produtos começou.
- 1992** O primeiro showroom de anéis de pistão Samsun Segman Sanayi foi aberto em Istambul.
- 1994** A qualidade dos anéis de pistão SSS é assegurada pelo Turkish Standards Institute (TSE)
- 2002** O logo SSS foi substituído pela marca POWERSEAL e apresentado ao mercado global.
- 2003** O certificado do sistema de qualidade ISO 9001-2000 é concedido à nossa empresa.
- 2005** A gama de produtos Powerseal tornou-se muito ampla, incluindo carros, tratores, caminhões, ônibus, veículos comerciais, marítimos, motores de locomotivas e anéis de pistão de compressores de ar/freio.
- 2008** Tornou-se um fornecedor OEM de fabricantes de compressores de ar/freio e motores em todo o mundo.
- 2014** Conseguimos ter distribuidores em mais de 70 países diferentes.
- 2015** Foi iniciada a produção de anéis de óleo de aço para motores a diesel.
- 2016** O certificado IATF 16949:2016 foi concedido à nossa empresa.
- 2017** A marca Powerseal apresentou sua nova identidade visual e embalagem.
- 2019** A SSS construiu esta nova e moderna instalação de produção em 10.000 m2 área.
- 2022** Os certificados de conformidade técnica EAC, Rússia e Inmetro, Brasil são obtidos com sucesso.
- 2023** Começamos a produzir nossa própria eletricidade investindo em energia renovável em nome da redução de nossa pegada de carbono e sustentabilidade.



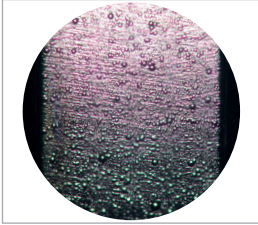
Por quê POWERSEAL?

Anéis super acabados para alcançar um rápido período de adaptação.

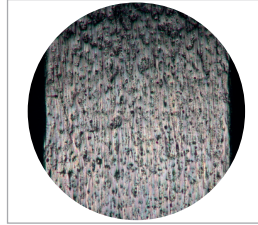
Powerseal : Sim ✓

Alguns concorrentes: Não fazem super acabamento (processo caro), o que torna a superfície do anel áspera. Anéis ásperos aumentam o tempo de assentamento, além de ocasionar danos a camisa, que resultará na perda de potência.

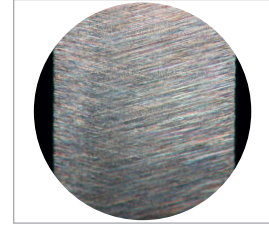
Ampliado X50



Concorrente A - Não terminado



Concorrente B - Polido



Powerseal - Super acabado

Fundição Nodular para evitar quebra de anéis cromados

Powerseal : Sim ✓

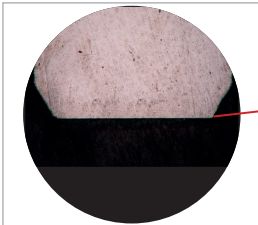
Alguns concorrentes: Fazem anéis revestidos de cromo de ferro fundido cinzento, que é facilmente quebrado durante a montagem ou em motores a diesel pesados.

Camada grossa de Cromo para uma maior vida útil

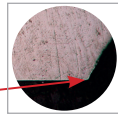
Powerseal : Sim ✓

Alguns concorrentes: Camada fina de cromo de 20 a 40 microns que reduz a vida útil do anel.

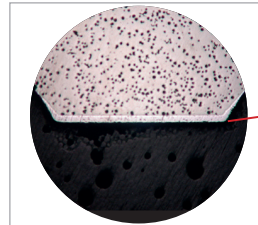
Ampliado X50



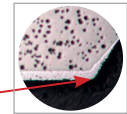
Concorrente A - Menos de 20 microns



Camada de cromo muito fina



Powerseal - 100 microns



Camada de cromo grossa

Própria fundição dedicada para anéis de pistão

Powerseal : Sim ✓

Alguns concorrentes: Não possuem fundição. Como eles terceirizam esse processo, eles têm controle limitado ou nenhum controle sobre o material.

Entrega rápida, de 1 dia a no máximo 6 semanas

Powerseal : Sim ✓

Alguns concorrentes: Fornecimento em 2 – 3 meses.

Itens em movimento sempre em estoque

Powerseal : Sim ✓

Alguns concorrentes: Não mantém estoque..

TIPOS DE ANÉIS



PRIMEIRO ANEL

ANEL DE COMPRESSÃO

ANEL DE ÓLEO

EXISTE BASICAMENTE DOIS TIPOS DE ANÉIS DE PISTÃO

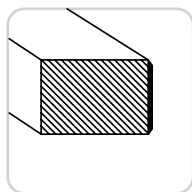
- I ANEL DE COMPRESSÃO
- II ANEL DE CONTROLE DE ÓLEO



Quase todos os pistões instalados nos motores atuais possuem dois anéis de compressão. Um na ranhura superior, outro na segunda ranhura e um anel de óleo na terceira ranhura. Frequentemente, um anel raspador é instalado como segundo anel ou anel de compressão inferior.

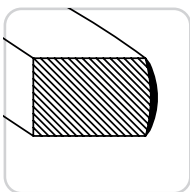


1 ANEL SUPERIOR



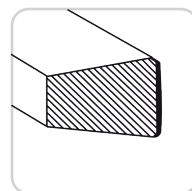
ANEL
RETANGULAR

R



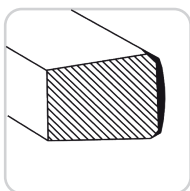
ANEL DE FACE
ABAUULADA

B



ANEL
TRAPEZOIDAL

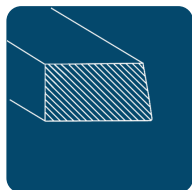
T



ANEL
SEMITRAPEZOIDAL

HK

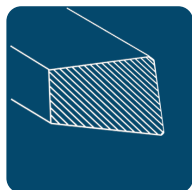
2 ANEL DE COMPRESSÃO



Anel com face
cônica
M



Anel Napier
NM

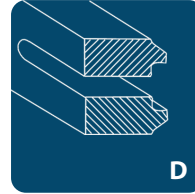


Anel Napier com mola
expansora
TM



3 ANEL DE ÓLEO

ANEL DE ÓLEO COM FENDAS



ANEL DE ÓLEO COM MOLA HELICOIDAL

DSF
GSF
DSFST (AÇO)

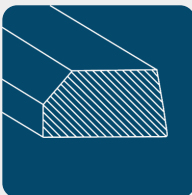


ANEL DE ÓLEO MULTIPÉÇAS

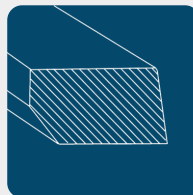
SLF



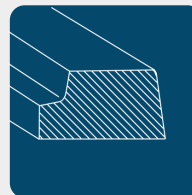
BORDA DOS ANÉIS DE COMPRESSÃO



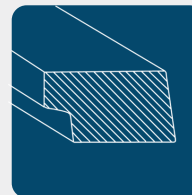
REBAIXO
INTERNO
IF



REBAIXO
INTERNO LADO
INFERIOR
IFU

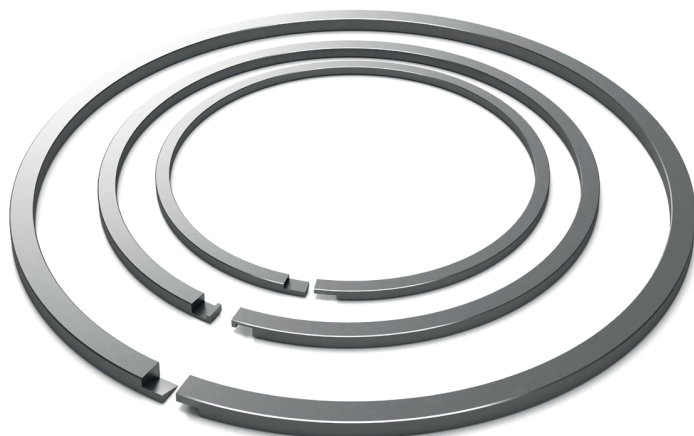


CHANFRO
INTERNO
IW



CHANFRO
INTERNO LADO
INFERIOR
IWU

TIPOS DE JUNTAS



SH: JUNTA DE DEGRAU ENGANCHADA



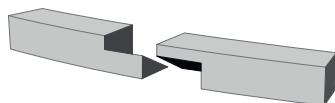
SO: SOBREPOSIÇÃO DE JUNTA EM DEGRAU (NA POSIÇÃO LIVRE)



S: JUNTA DE DEGRAU (NA POSIÇÃO LIVRE)



SA: JUNTA DE DEGRAU ANGULAR



SDC: JUNTA EM CORTE DIAGONAL



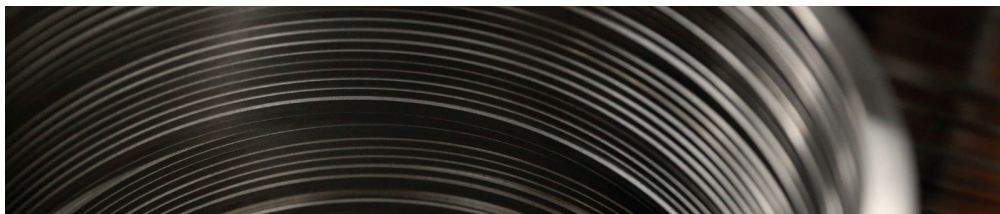
SDCL: ESQUERDA

SDCR: DIREITA



Para tipos e solicitações de juntas de anel, entre em contato conosco.

REVESTIMENTO



FOSFATAÇÃO (P) : REVESTIMENTO DE FOSFATO EM TODAS AS SUPERFÍCIES

Com a fosfatação, os fosfatos cristalinos são depositados em todas as superfícies dos anéis do pistão, exceto nas áreas cromadas.

A camada de fosfato tem uma espessura de 0,002 – 0,005 mm. e melhora o funcionamento do anel do pistão aumentando a aderência do óleo.

Além disso, a camada de fosfato tem um certo efeito anticorrosivo durante longos períodos de armazenamento, mesmo em condições úmidas.

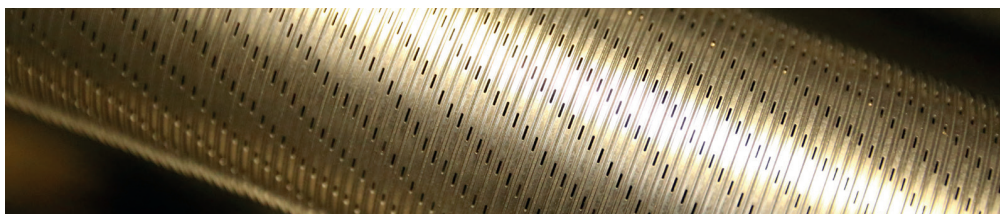
CROMAGEM (CR) : SUPERFÍCIE DE DESGASTE CROMADA E LAPIDA

A camada de cromagem eletrostática reduz o desgaste tanto no próprio anel do pistão quanto em seu parceiro de fricção, a superfície do cilindro ou camisa. Isso ajuda a garantir que a vida útil total do conjunto de anéis do pistão e do motor seja semelhante.

Ambos os anéis de controle de óleo e compressão podem ser cromados.

NITRETAÇÃO (NIT) :

Neste processo, os átomos de nitrogênio penetram e se difundem no metal base, aumentando significativamente a dureza da superfície. Este revestimento é usado principalmente no primeiro anel e em anéis de óleo. Embora ofereça uma resistência ao desgaste muito boa, sua resistência ao desgaste é semelhante ao revestimento cromado.

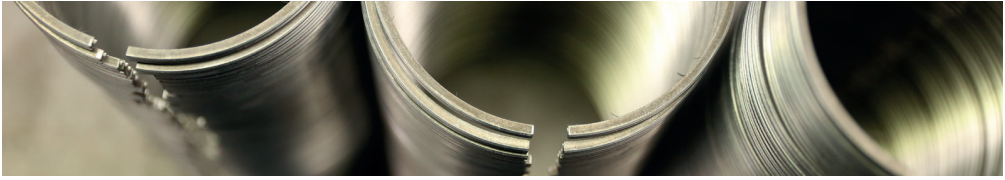


MATERIAIS

Existem vários tipos de materiais usados na fabricação dos anéis de pistão da Powerseal:

- I) KG: FERRO FUNDIDO COM GRAFITE ESFEROIDAL
- II) LG: FERRO FUNDIDO COM GRAFITE LAMELAR
- III) ST: AÇO

Todos os anéis superiores e quase todos os anéis de óleo nos conjuntos de anéis de pistão POWERSEAL são feitos de ferro fundido nodular ou aço especial para garantir qualidade e superioridade.



FUNÇÕES

Os anéis do pistão devem cumprir 3 funções principais nos motores:

- 1) Selar a câmara de combustão do cárter
- 2) Limitar e controlar o consumo de óleo
- 3) Transferir o calor absorvido pelo pistão no processo de combustão para as paredes resfriadas do cilindro

ANEL DE COMPRESSÃO

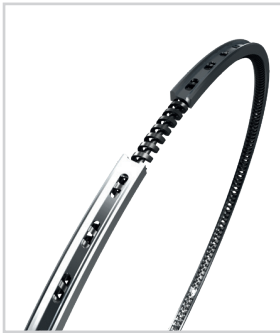
Os anéis de compressão cumprem a função de vedação da pressão criada na câmara de combustão e transferem calor para as paredes resfriadas do cilindro como uma ponte. Eles também controlam o consumo de óleo.



ANEL DE CONTROLE DE ÓLEO

Os anéis de controle de óleo regulam e limitam o consumo de óleo. Eles raspam o excesso de óleo lubrificante das paredes do cilindro e o devolvem ao cárter.

Eles são projetados para fornecer uma fina película de óleo e garantir a lubrificação do pistão e do anel.



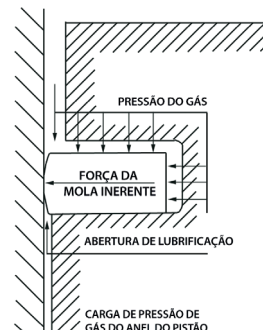
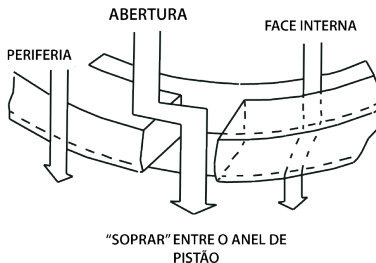
O controle inadequado do óleo resulta em cozimento (resíduos de carbono) ou fumaça azul nos gases de escape e resulta em consumo excessivo de óleo.

O raspador ou segundo anel de compressão se comporta como um anel de compressão e um anel de controle de óleo.

A força da mola radial no anel instalado é intensificada na operação do motor pela pressão do gás atrás do anel.

O contato axial ao longo da lateral da ranhura do pistão é essencialmente o resultado da pressão do gás na lateral do anel.

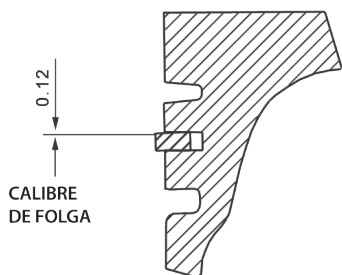
A superfície de vedação deste sistema de vedação deve ser de qualidade superficial extremamente alta. As ranhuras devem ter tolerâncias mínimas de largura.



RECOMENDAÇÕES DE INSTALAÇÃO PARA OS ANÉIS DA POWER SEAL

1) PRIMEIRO LIMPE OS PISTÕES completamente e remova todos os depósitos de carbono da ranhura do anel e dos orifícios de drenagem de óleo. Certifique-se de que as laterais ou os raios das ranhuras não estejam danificados, para evitar vazamentos. Substitua os pistões rachados ou deformados e gastos.

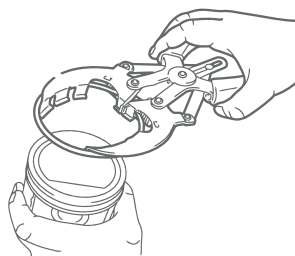
2) VERIFIQUE AS RANHURAS DOS ANÉIS DO PISTÃO Se existir uma folga de 0,12 mm. ou mais entre um novo anel de lados paralelos e a parede da ranhura associada, isso significa que o pistão está muito gasto e deve ser substituído



Folga da ranhura (mm)	Uso do pistão
0,05 - 0,10	Pistão pode ser reutilizado sem restrição
0,11 - 0,12	Mais cautela necessária
> 0,12	Novo pistão é essencial

3) VERIFIQUE O DESGASTE DO CILINDRO Se o desgaste do cilindro exceder 0,10 mm. para motores de ignição e 0,15 mm. para motores a diesel, o cilindro também deve ser trocado. Os depósitos de carbono devem ser removidos da área superior do orifício do cilindro.

4) INSTALE OS ANÉIS, iniciando pelo anel inferior utilizando um expansor de anel (ferramenta) adequado. Não expanda demais os anéis, pois eles podem ser deformados plasticamente e não formarão mais uma vedação perfeita. Os anéis estampados "TOP" devem estar de forma que o carimbo "TOP" ou qualquer marcação fique voltada para a cabeça do pistão. Com anéis de controle de óleo carregados por mola helicoidal, a folga da mola deve ser escalonada em 180°.



5) APÓS A MONTAGEM DOS ANÉIS, gire-os de forma que as folgas dos anéis fiquem escalonadas em torno da circunferência do pistão (120° de distância no caso de 3 anéis, 90° de distância no caso de 4 anéis).

6) ANTES DE MONTAR o pistão com os anéis, lubrifique as superfícies dos mancais com óleo de motor limpo para evitar danos causados pelo funcionamento a seco. Pressione os anéis do pistão nas ranhuras usando um compressor de anel e deslize cuidadosamente o pistão para dentro do orifício do cilindro.

7) A LIMPEZA DURANTE A INSTALAÇÃO É EXTREMAMENTE IMPORTANTE para garantir o bom funcionamento do motor. Certifique-se de que o ar, o óleo e o combustível sejam efetivamente filtrados ou limpos.

Somente o óleo e o combustível recomendados pelos fabricantes de motores e veículos devem ser usados

8) NÃO USE ANÉIS CROMADOS EM CAMISAS CROMADAS

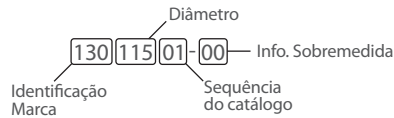


COMO PEDIR

Para solicitar os conjuntos de anéis de pistão listados neste catálogo, basta informar o número da peça.

Detalhes adicionais do tipo de motor podem ser úteis, mas não essenciais.

Por exemplo, anéis necessários: conjuntos de anéis de pistão Daimler-Benz OM 360, diam. 115 mm tamanho STD
Seu pedido deve ser: 13011501-00



PEDIDOS E TAMANHOS ESPECIAIS

Caso não encontre no catálogo o anel de pistão ou qualquer sobremedida que procura, por favor nos contate.

IDENTIFICAÇÃO DE SOBREMEDIDAS:

Mark.	mm.	inch.
00	= STD	= STD
04	= +0.20	
05	= +0.25	=+0.010"
06	= +0.40	=+0.015"
07	= +0.50	=+0.020"
08	= +0.60	=+0.025"
09	= +0.75	=+0.030"
10	= +0.80	=+0.035"
11	= +1.00	=+0.040"
13	= +1.25	=+0.050"
14	= +1.50	=+0.060"
16	= +2.00	=+0.080"

EXEMPLOS:

D-BENZ OM 352

No de Parte	Dia. Cil. mm)	(mm)
13009702-00	97.00	STD
13009702-05	97.25	+0.25
13009702-07	97.50	+0.50
13009702-09	97.75	+0.75
13009702-11	98.00	+1.00
13009702-14	98.50	+1.50



INFORMAÇÃO IMPORTANTE

Este catálogo foi compilado e controlado com muito cuidado. No entanto, não nos responsabilizamos por quaisquer erros ou omissões. Além disso, nos reservamos o direito de fazer alterações técnicas nas especificações dos anéis resultantes do constante desenvolvimento tecnológico na área de anéis de pistão.

A escolha dos conjuntos de anéis oferecidos em nosso catálogo está sujeita a mudanças constantes. Se procura conjuntos de anéis não mencionados neste catálogo, consulte a nossa equipe. Após o lançamento deste catálogo, todas as versões anteriores se tornarão inválidas.

Não é permitido reimprimir ou copiar este catálogo ou partes dele. Todas as imagens, bem como o design completo, são protegidos por direitos autorais. Nomes, descrições e outros dados de veículos e fabricantes são mencionados apenas para fins de comparação.

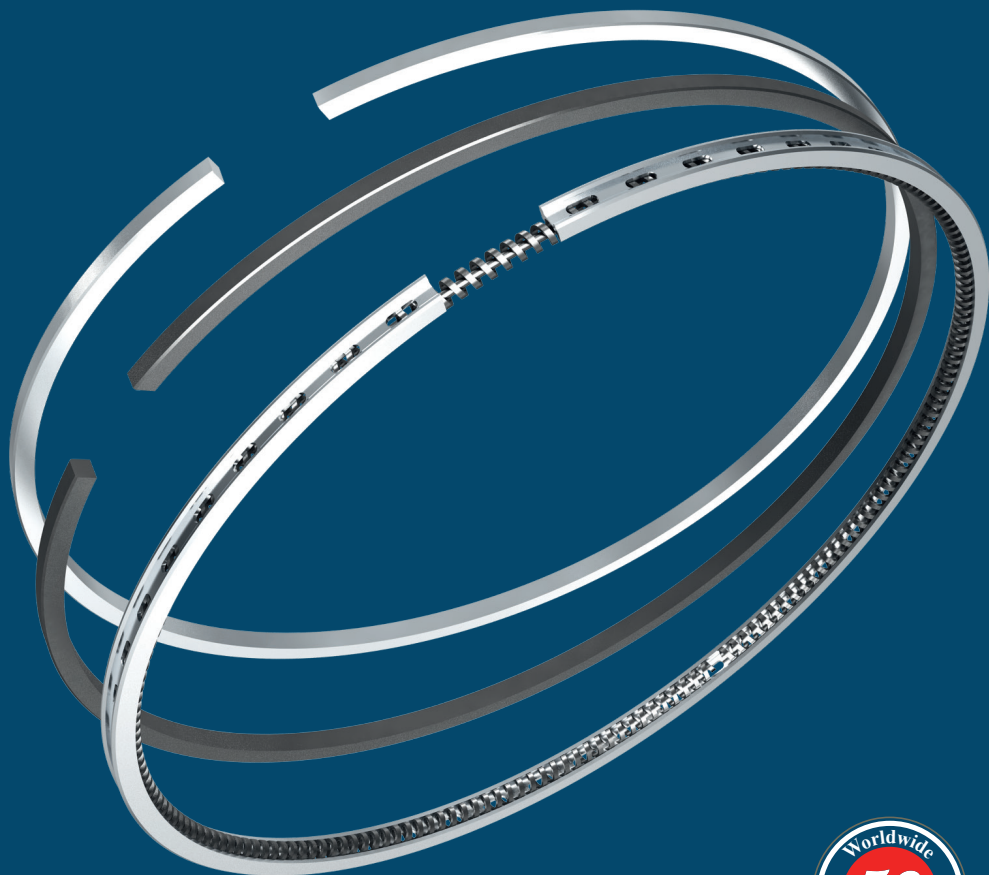
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O catálogo não é um manual de operação para uso e instalação de anéis de pistão. Não contém nenhum conselho em um sentido legal.

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ALFA ROMEO	1
ANDORIA	5
ATLAS COPCO	6
AUDI	6 Pf consultar VAG
BBC	6 Pf consultar COMPRESSORS
BEDFORD	7
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POWER SEAL[®]
PISTON RINGS



CATALOGUE DE JEUX DE SEGMENTS

SOCIETE PRODUCTRICE  SAMSUN SEGMAN SANAYI

www.samsunsegman.com

CATALOGUE 10

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/// SAMSUN SEGMAN SANAYİ

Aujourd'hui, Samsun Segman Sanayi utilise une technologie de pointe pour produire des segments de piston de la plus haute qualité

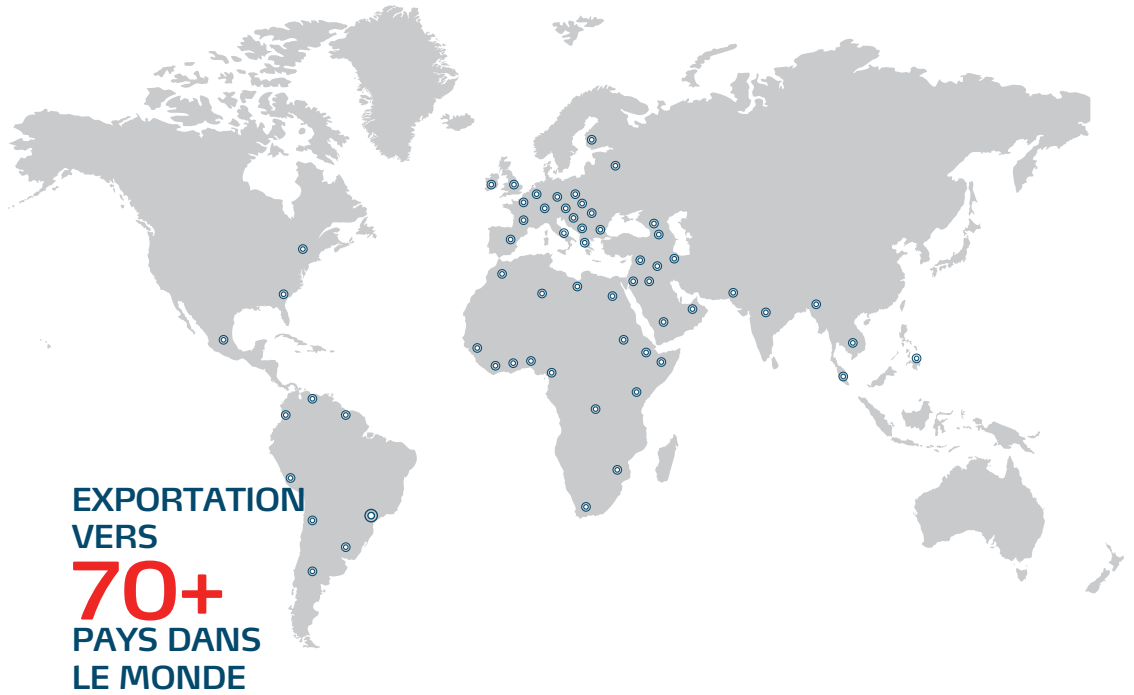
La société est le fournisseur homologué OEM des producteurs de compresseurs d'air et de freins ainsi que des fabricants de moteurs.

SSS cherche à établir des partenariats à long terme avec chaque client et continue à rechercher des partenariats de distribution professionnels dans les marchés importants.

Nous pensons que cela va conduire SSS et ses clients vers un brillant avenir.

UN BEL HISTORIQUE

- 1953** Ahmet HİDAYETOĞLU, étant de la première génération, a débuté la production de segments et de chemises.
- 1965** Production de segments pour les moteurs marin des bateaux de pêcheur et pour les pompes d'irrigation.
- 1987** Samsun Segman Sanayi Ltd. Co. a été fondée et la société strategicly a décidé de se spécialiser dans la fabrication de segments de piston.
- 1988** Le premier bâtiment d'usine a été construit à Samsun.
- 1989** Affirmation de la production en série et commencement de la livraison globale.
- 1992** Création de du premier show room des segments de Samsun Segman Sanayi, à İstanbul.
- 1994** Qualité des segments de SSS reconnue et assurée par TSE (Institut des Standards Turcs)
- 2002** SSS Logo remplacé par la marque commerciale POWERSEAL PISTON RINGS, dans le monde entier.
- 2003** Notre société a obtenu le Certificat des Normes de qualité ISO 9001 – 2000
- 2005** Notre éventail de produits qui est composé des segments de moteurs des voitures, véhicules commerciaux, tracteurs, camions, bus, locomotives, s'est élargi en y ajoutant les segments des compresseurs d'air et de freins
- 2008** Nous sommes devenus le fournisseur des pièces d'origine des usines de moteurs et des fabriquants de compresseurs de differents pays du monde.
- 2014** La marque Powerseal a atteint 70 pays.
- 2015** Commencement de production des segments d'huile en acier adaptables aux moteurs diesel.
- 2016** Le certificat IATF 16949:2016 a été délivré à notre société
- 2017** La marque Powerseal a présenté sa nouvelle identité visuelle et son nouveau packaging.
- 2019** SSS a construit cette nouvelle installation de production moderne sur une surface de 10 000 m².
- 2022** Les certificats de conformité technique EAC, Russie et Inmetro, Brésil sont obtenus avec succès.
- 2023** Nous avons entrepris de produire notre propre électricité en investissant dans des sources d'énergie renouvelable, dans le but de réduire notre empreinte carbone et de promouvoir la durabilité.

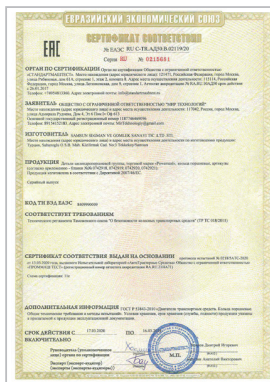


EXPORTATION
VERS
70+
PAYS DANS
LE MONDE

PLUS DE **50** ANS D'EXPERIENCE

CERTIFICATS

Nos certificats de qualité et de conformité



POURQUOI POWERSEAL?

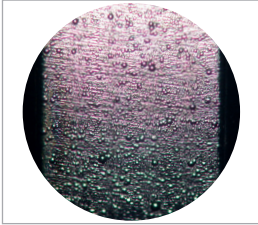


Segments Super finis pour une courte période de rodage.

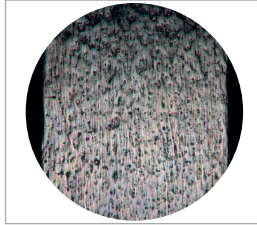
Powerseal : Oui ✓

Certains concurrents: Ne pas faire de super finition (processus coûteux), ce qui rend la surface du segment rugueuse. Les segments rugueux fonctionnant pendant cette période qui est longue, peuvent rayer la chemise de cylindre qui se traduira par une perte de puissance.

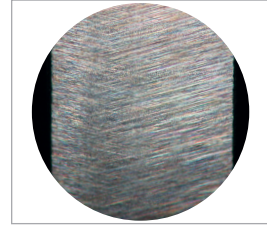
X50 agrandi



Concurrent A: Pas de finition



Concurrent B: Poli



Powerseal: Super finition

Contre la rupture des segments chromés, matière en fonte à graphite sphéroïdal (Fonte GS)

Powerseal : Oui ✓

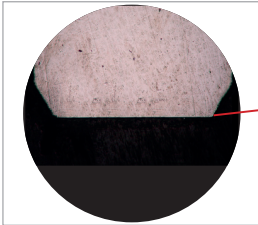
Certains concurrents: Segments chromés produits en fonte grise qui se cassent facilement pendant le montage ou bien dans des moteurs lourds DIESEL.

Couche épaisse de chrome pour une longue durée de vie

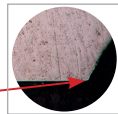
Powerseal : Oui ✓

Certains concurrents: Segment avec couche de chrome mince (20-50 microns) entraîne une durée de vie plus courte.

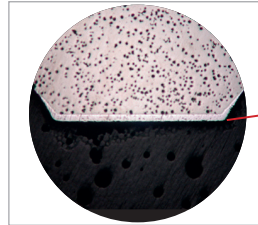
X50 agrandi



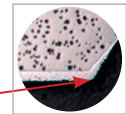
Concurrent A: Moins de 20 microns



très mince
couche de
chrome



Powerseal-100 microns



Couche de
chrome
épaisse

Posséder sa propre fonderie de segments de piston.

Powerseal : Oui ✓

Certains concurrents: N'ont pas de fonderie. Ils sous-traitent ce processus, ils ont peu ou pas de contrôle sur le matériel.

Livraison rapide entre 1 et 6 jours maximum

Powerseal : Oui ✓

Certains concurrents: Approvisionnement en 2-3 mois

Articles toujours en stock

Powerseal : Oui ✓

Certains concurrents: Ne pas stocker

TYPES DE SEGMENT DE PISTON



SEGMENT
"COUPE- FEU"

SEGMENT
D'ETANCHEITE

SEGMENT
RACLEUR

IL EXISTE PRINCIPALEMENT DEUX TYPES DE SEGMENTS DE PISTON



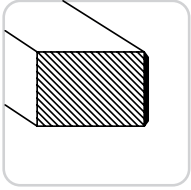
- I SEGMENTS DE COMPRESSION
- II SEGMENTS RACLEURS

Presque tous les pistons qui sont installés dans les moteurs d'aujourd'hui ont deux segments de compression, un dans la rainure supérieure, l'autre dans la deuxième rainure et un segment de racleur dans la troisième rainure.

Souvent un segment de compression est installé comme le deuxième segment ou un segment de compression plus faible.

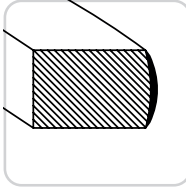


1 SEGMENTS COUPE-FEU



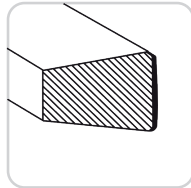
SEGMENT
RECTANGULAIRE

R



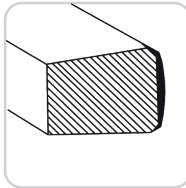
SEGMENT FACE
ARRONDIE

B



SEGMENT
TRAPEZOIDAL

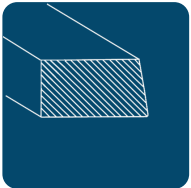
T



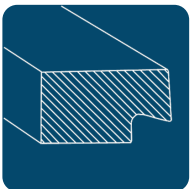
SEGMENT SEMI
TRAPEZOIDAL

HK

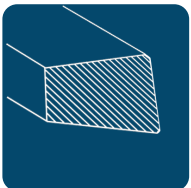
2 SEGMENTS DE COMPRESSION



SEGMENT
CONIQUE
M



RACLEUR CONIQUE A
BEC D'AIGLE
NM

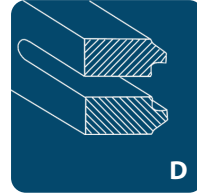


SEGMENT TRAPEZOIDAL
CONIQUE D'EXTERIEUR
TM



3 SEGMENTS RACLEUR

SEGMENT RACLEUR MONOBLOC



SEGMENT RACLEUR
AVEC RESSORT
SPIROIDAL

DSF
GSF
DSFST (ACIER)

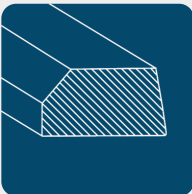


SEGMENT RACLEUR
MULTIPLE CORPS
ACIER

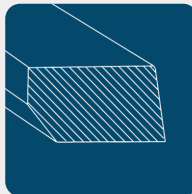
SLF



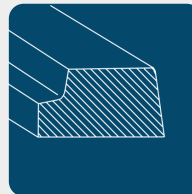
CHANFREINS DES SEGMENTS DE COMPRESSION



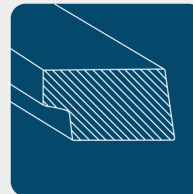
TORSION INT.
BORD
SUPERIEUR
IF



TORSION INT.
BORD
INFERIEUR
IFU

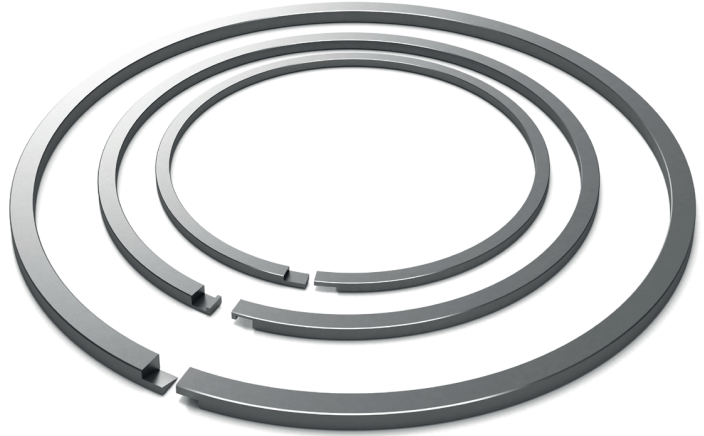


EPAULEMENT
TORSION INT.
BORD SUPERIEUR
IW



EPAULEMENT
TORSION INT.
BORD INFERIEUR
IWU

**TYPES DE
SEGMENTS
VERROUILLES**



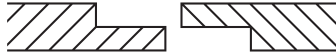
SH: COUPE CROCHET



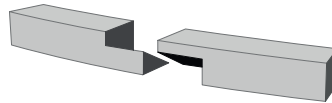
SO: COUPE BAIONNETTE BANDE REDUITE



S: COUPE BAIONNETTE



SA: COUPE HERMETIQUE



SDC: COUPE DIAGONALE



**SDCL: COUPE OBLIQUE
GAUCHE**

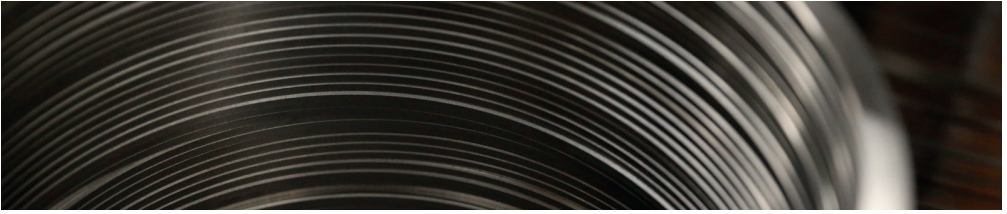


**SDCR: COUPE
OBLIQUE DROITE**



Pour les types d'anneaux et les demandes, veuillez nous contacter.

REVETEMENTS



PHOSPHATAGE (P) :

Lorsqu'on applique le phosphatage sur toutes les surfaces de segments, les cristaux de phosphate s'accumulent sur toutes les surfaces sauf sur les surfaces chromées.

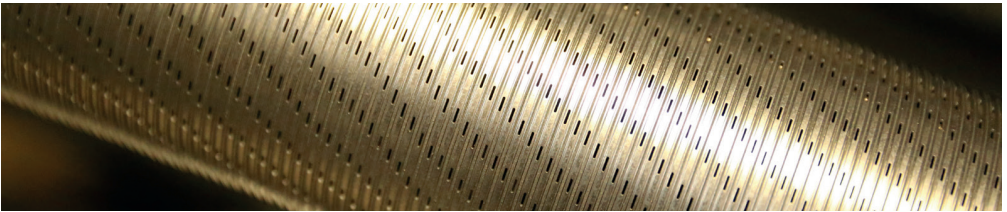
L'épaisseur de revêtement est entre 2-5 microns. Ce traitement accélère l'adaptation des segments et permet à l'huile de moteur de s'accrocher aux surfaces de segments. Grâce à son efficacité protectrice contre la rouille même dans les milieux humides, il permet un stockage à long terme.

CHROMAGE (CR) :

Le Chrome appliqué par électrolyse aux surfaces de frictions augmente d'un côté la résistance de segment contre la corrosion et de l'autre côté empêche la corrosion des surfaces des pièces auxquelles les segments se frottent (bloc de cylindre, chemise de cylindre). Ainsi la durée de vie de toutes les pièces et des moteurs augmente. Le premier segment et le râcleur peuvent être tous les deux chromés. Par contre dans les moteurs qui ont des pistons chromés, on ne peut absolument pas utiliser des segments chromés.

NITRURATION (NIT) :

Avec ce traitement d'enrobage, les atomes nitrogènes effectuent un durcissement sur la surface du métal. Ce revêtement est surtout utilisé pour les segments en acier de coupe feu et de râcleur. Sa résistance à l'usure est bien et fait gagner une résistance contre les rayures qui se rapproche à celle du chrome."



MATIERES DES SEGMENTS

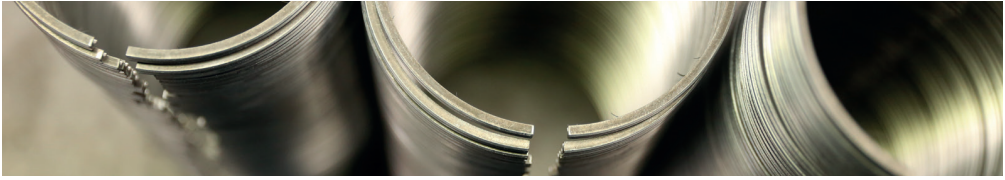
Les segments de POWERSEAL sont produits, essentiellement, de 3 sortes de matières:

- I) FONTE A GRAPHITE SPHEROIDALE EN ALLIAGE AU KG. (GGG)
- II) FONTE A GRAPHITE AUX LAMELLES LG (GG)
- III) ACIER (ST)

Dans le jeu des segments POWERSEAL, tous les râcleurs et les 1ers segments sont produits en fonte sphéroïdale (GGG) et en acier spécial . Ils sont chromés.

C'est un signe de qualité et de supériorité de POWERSEAL.

Ces 3 matières essentielles ont leur sous -variation que nous utilisons pour les segments qui ont des caractéristiques et des dimensions différentes.



FONCTION DES SEGMENTS

Les segments remplissent 3 fonctions essentielles dans les moteurs:

- 1) Ils servent à séparer la boîte de vilebrequin (carter) et la chambre de combustion.
- 2) Ils limitent et contrôlent la consommation d'huile.
- 3) En réagissant comme un pont, ils transmettent la chaleur des brûlures et des chambres de combustion aux parois des cylindres et au bloc.

SEGMENT DE COMPRESSION

Les segments de compression bloquent la chaleur dégagée à la tête des pistons tout en empêchant la contamination de cette chaleur au carter.

Ainsi, ils empêchent un chauffage excessif en transmettant cette chaleur accumulée sur les pistons, sur les parois des cylindres refroidies avec l'eau ou l'air.



Ils régularisent la lubrification et la consommation d'huile.

BAGUES DU CONTROLE D'HUILE

Ils régularisent et limitent l'utilisation d'huile. Ils recyclent l'huile en trop en la râclant et la renvoyant au carter.

La conception des segments est faite de manière à lubrifier les parois des cylindres avec une couche fine d'huile pour éviter que les pièces restent sans huile.



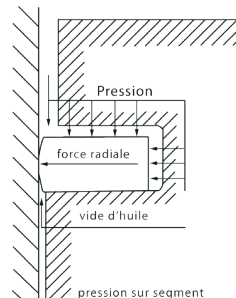
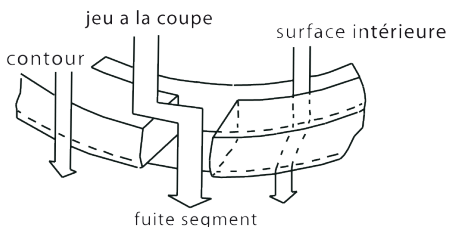
On peut observer les conséquences de consommation d'huile en trop comme des miettes de carbone dans les canalettes de piston, comme un gaz d'échappement bleu-gris et une diminution du niveau d'huile.

Le deuxième segment ou segment racler fonctionne à la fois comme segment de compression et segment d'huile.

La force radiale appliquée par les segments montés est renforcée par la pression créée par la brûlure.

La force qui permet l'ajustement du segment à la surface de canalette de piston, vient de la pression qui est formée à la tête du piston.

Pour l'étanchéité, il est indispensable que toutes ces surfaces soient bien conçues et produites. (rodage, surfaces des canalettes de piston, surfaces segments)



CONSEILS DE MONTAGE

1) EN PREMIER LES PISTONS DOIVENT ETRE COMPLETEMENT NETTOYES.

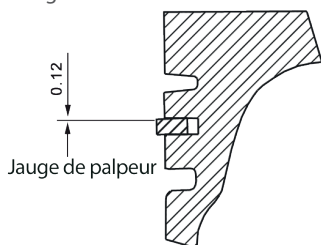
Les déchets de carbone qui se trouvent dans les canalettes de piston et dans les trous de passage d'huile doivent être complètement nettoyés.

Il faut être sûr qu'il n'y ait pas de destruction sur la surface des canalettes de piston. La fuite de pression ou bien le soufflage peuvent être éliminés seulement dans ces conditions.

Les pistons usés, déformés et fissurés doivent être absolument remplacés par des nouveaux.

2) LA LARGEUR DES CANALETTES DE PISTON DOIT ETRE CONTROLEE.

Pour cela, il faut mettre un nouveau segment dans la canalette. On mesure en mettant des jauges d'épaisseurs entre le segment et la surface de canalette de piston. S'il y a un jeu de plus de 0,12mm, cela veut dire que la durée de vie du piston a pris fin. Nous devons les changer. durée de vie du piston a pris fin. Nous devons les changer.



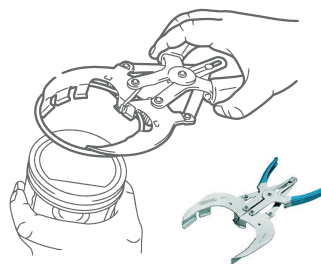
Le jeu de canalette (mm)	Etat de Piston
0,05 - 0,10	Continuer à utiliser
0,11 - 0,12	Bien examiner le piston
Plus de 0,12	Changer le piston

3) L'USURE DES CYLINDRES DOIT ETRE CONTROLEE.

Si le diamètre du cylindre dans les moteurs à essence a augmenté de 0,10mm et dans les moteurs diesel de 0,15mm, on doit les changer. Si l'on veut utiliser l'ancien segment, nous devons nettoyer les déchets de carbone qui se trouvent dans le vide supérieur du cylindre; au dessus de la zone de mouvement.

4) POUR FAIRE LE MONTAGE DE SEGMENT SUR LES PISTONS IL FAUT SE SERVIR D'UNE PINCE DE

segment le montage commence dans le râcleur qui se trouve dans la canalette du bas. Si l'on ouvre trop les segments il peut y avoir des déformations qui empêcheront le râcleur d'empêcher les fuites. C'est pour cela que l'on ne doit pas trop ouvrir les segments avec la pince. Il est obligatoire qu'au montage l'écriture TOP regarde vers le haut. Le point de liaison du ressort du râcleur, doit être mis en face de la chambre de combustion avec un angle de 180 degrés.



5) APRÈS ASSEMBLAGE DES SEGMENTS: Les tordre de telle sorte que les espaces annulaires soient décalés autour de la circonférence du piston. (120 séparés dans le cas de 3 segments, 90 dans le cas de 4 segments)

6) AVANT DE MONTER LES SEGMENTS, TOUTES LES SURFACES QUI SUBISSENT DES FRICTIONS doivent bien huilées. Cela est pour éviter que pendant le premier fonctionnement sans huile, les pièces ne soient endommagées. Les segments doivent être bien installés dans les canalettes donc il faut utiliser l'outil spécial pour serrer les segments. Le piston contenant les segments doit être délicatement glissé dans le vide de cylindre.

7) IL NE FAUT PAS OUBLIER LA PROPRETÉ AU MOMENT DU MONTAGE POUR QUE LE MOTEUR fonctionne sans problème. La propreté est la plus importante en cours de montage. Nous devons être sûrs que l'huile, le carburant et l'air dont on se sert, soient propres. Par contre nous devons nous servir de l'huile et du carburant que le producteur conseille.

8) ON NE PEUT ABSOLUMENT PAS UTILISER LES SEGMENTS CHROMES SUR LES PISTONS CHROMES.



COMMANDE DE SEGMENT

Pour commander des segments, il suffit de nous indiquer les numéros de pièces sur notre catalogue.

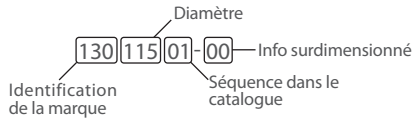
Bien que cela ne soit pas obligatoire, il serait utile de nous faire savoir les types de véhicule et moteur.

Exemple : Pour commander un segment avec des dimensions standards de

DAIMLER BENZ OM 360 diam.115mm STD

No de pièce de SSS est: 13011501-00

Nous gardons le droit de faire des modifications techniques afin de nous permettre de suivre les progrès technologiques dans notre domaine.



DIMENSIONS SPECIALES ET LEUR COMMANDE

Nous pouvons produire chaque segment standard de diamètre différent de segments qui n'existent pas sur notre catalogue pourvu que la quantité commandée nous permette une production économique.

Nous vous prions de consulter notre société pour vos besoins de pièces spéciales.

Symboles de dimensions hors Standard

Symbole.	mm.	inch.
00	= STD	= STD
04	= +0.20	
05	= +0.25	=+0.010"
06	= +0.40	=+0.015"
07	= +0.50	=+0.020"
08	= +0.60	=+0.025"
09	= +0.75	=+0.030"
10	= +0.80	=+0.035"
11	= +1.00	=+0.040"
13	= +1.25	=+0.050"
14	= +1.50	=+0.060"
16	= +2.00	=+0.080"

EXEMPLE

D-BENZ OM 352

No de pièce	Ø de Cylindre (mm)	
13009702-00	97.00	STD
13009702-05	97.25	+0.25
13009702-07	97.50	+0.50
13009702-09	97.75	+0.75
13009702-11	98.00	+1.00
13009702-14	98.50	+1.50



AVIS IMPORTANT

Ce catalogue a été compilé et contrôlé avec beaucoup de soins. Néanmoins, nous ne sommes pas responsables des erreurs ou omissions. En outre, nous nous réservons le droit de procéder à des modifications techniques dans les spécifications des segments résultant du développement technologique constant dans le domaine des segments de pistons.

Le choix des segments proposés dans notre catalogue est en constante évolution. Si vous cherchez des ensembles de segments qui ne sont pas mentionnés dans ce catalogue, s'il vous plaît consultez notre personnel. A partir du moment de la parution de ce catalogue, toutes les versions antérieures deviendront invalides.

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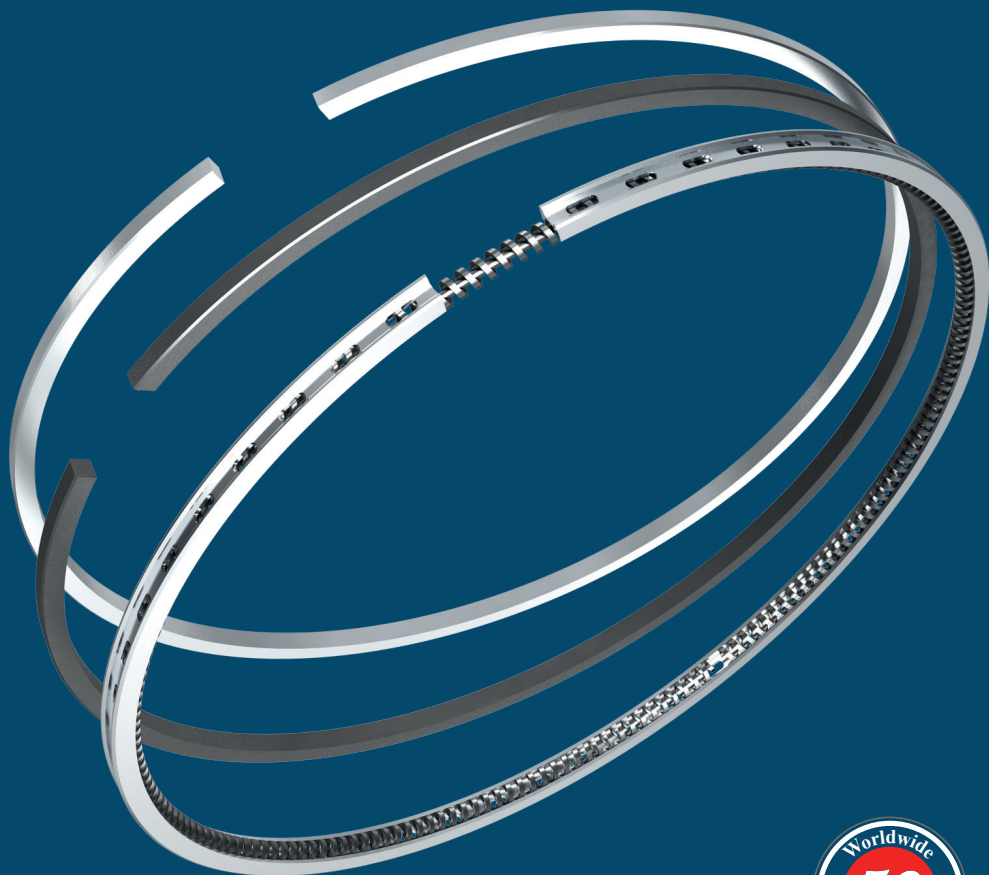
Les demandes de dommages et intérêts, de quelque forme que ce soit, résultant de détails figurant dans ce catalogue ou d'une utilisation, d'un entreposage ou d'une manipulation incorrecte sont explicitement exclues.

Ce catalogue n'est pas un manuel d'utilisation pour l'utilisation et l'installation des segments de piston. Il ne contient aucun conseil légal.

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POWER SEAL[®]
PISTON RINGS



ПОРШНЕВЫХ КОЛЕЦ КАТАЛОГ

произведено  SAMSUN SEGMAN SANAYİ

www.samsunsegman.com



RU

каталог 10 ИНДЕКС

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/// SAMSUN SEGMAN SANAYİ

Сегодня Samsun Segman Sanayi использует передовые технологии для производства поршневых колец высочайшего качества.

Компания является OEM-поставщиком («оригинальный производитель оборудования») воздушных и тормозных компрессоров для различных производителей и заводов по производству двигателей.

SSS заинтересован в долгосрочном партнерстве с каждым клиентом и продолжит исследовать ключевые рынки для налаживания профессиональных партнерских отношений и в будущем. Мы верим, что это обеспечит SSS и его клиентам блестящее будущее.

ВЕХИ

1953 Ахмет Хидаетоглу, первое поколение, начал локальное производство поршневых колец и гильз.

1965 Начато производство поршневых колец для судовых двигателей и водяных насосов.

1987 Основана компания Samsun Segman Sanayi Ltd., компанией принято стратегическое решение о специализации на производстве поршневых колец, поршневых колец для судовых, локомотивных двигателей, воздушных / тормозных компрессоров.

1988 Первое здание завода было построено в г.Самсун, Турция.

1989 Начало глобального распространения продукции.

1992 В Стамбуле открыт первый салон поршневых колец компании Samsung Segman Sanayi.

1994 Качество поршневых колец SSS обеспечивается Турецким Институтом Стандартов (TSE)

2002 Логотип SSS заменен брендом POWERSEAL и представлен на мировом рынке.

2003 Нашей компании выдан Сертификат Системы Качества ISO 9001-2000.

2005 Ассортимент продукции Powerseal становится очень широким, включая поршневые кольца для легковых машин, тракторов, грузовых авто, автобусов, коммерческой техники, морских судов, локомотивов и воздушных / тормозных компрессоров.

2008 Становится мировым поставщиком OEM-производителей двигателей и воздушных / тормозных компрессоров.

2014 Дистрибьюторская сеть в 70 различных странах.

2015 Начато производство стальных масляных колец для дизельных двигателей.

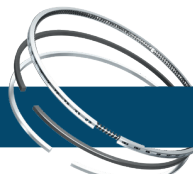
2016 Компании выдан сертификат IATF 16949:2016.

2017 Торговой маркой Powerseal представлен новый логотип и упаковка.

2019 SSS построила этот новый и современный производственный объект площадью 10 000 м².

2022 Успешно получены сертификаты технического соответствия EAC, Россия и Inmetro, Бразилия.

2023 Мы начали производить собственную электроэнергию, инвестируя в возобновляемые источники энергии во имя сокращения нашего углеродного следа и устойчивого развития.



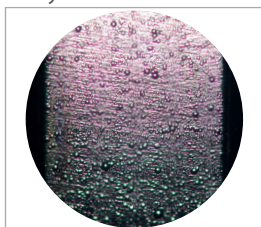
ПОЧЕМУ POWERSEAL ?

Тщательная финишная обработка колец -сокращение периода "притирки"

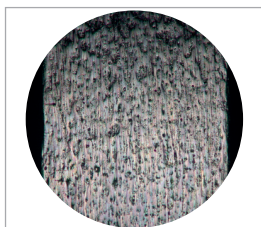
Powerseal : Да ✓

Конкуренты: не выполняют тщательную финишную обработку (дорогостоящий процесс), и поверхность кольца остается шероховатой. При работе в течение длительного времени грубое кольцо может царапать гильзу, что приведет к потере мощности.

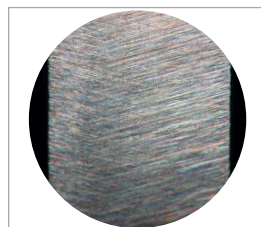
X50 увеличено



Конкурент А - нет финишной обработки



Конкурент В - полировка



Powerseal - тщательная финишная обработка

Хромированное покрытие колец препятствует повреждению материала серый чугун

Powerseal : Да ✓

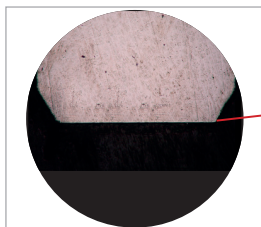
Конкуренты: делают кольца с хромовым покрытием из серого чугуна, который легко ломается при сборке или в дизельных двигателях больших мощностей.

Толстый слой хрома, продлевающий срок службы

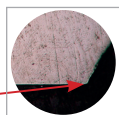
Powerseal : Да ✓

Конкуренты: тонкий, 20-40 микрон, слой хрома сокращает срок службы кольца.

X50 увеличено



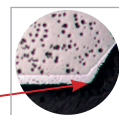
Фирма А - Менее 20 микрон



Очень тонкий слой хрома



POWERSEAL – 100 микрон



Толстый слой хрома

Собственный специализированный завод по производству поршневых колец

Powerseal : Да ✓

Конкуренты: не имеют производства. Так как этот процесс передан на аутсорсинг, ограничение в контроле материала либо его отсутствие.

Быстрая доставка, от 1 дня до 6 недель максимум

Powerseal : Да ✓

Конкуренты: поставки в течение 2—3 месяцев.

Всегда в наличии расходные составляющие

Powerseal : Да ✓

Конкуренты: нет складских запасов.

ОСНОВНЫХ ВИДА ПОРШНЕВЫХ КОЛЕЦ



ВЕРХНЕЕ
КОЛЬЦА

КОМПРЕССИОННЫЕ
КОЛЬЦА

КОЛЬЦА
МАСЛЯНОГО
КОНТРОЛЯ

ДВА ОСНОВНЫХ ВИДА ПОРШНЕВЫХ КОЛЕЦ

I КОМПРЕССИОННЫЕ КОЛЬЦА

II КОЛЬЦА МАСЛЯНОГО КОНТРОЛЯ

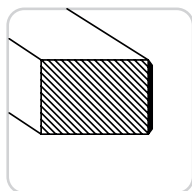


Практически все поршни, установленные в современных двигателях, имеют два компрессионных кольца. Одно в верхней бороздке, второе — во второй бороздке и маслосъёмное кольцо в третьей бороздке. Часто скребковое кольцо устанавливается как второе кольцо или нижнее компрессионное кольцо.

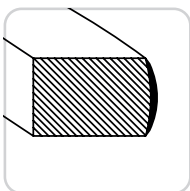


1

ТИПЫ ПОПЕРЕЧНОГО СЕЧЕНИЯ КОЛЕЦ

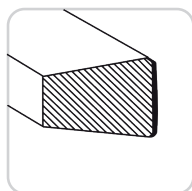


ПРЯМОУГОЛЬНОЕ



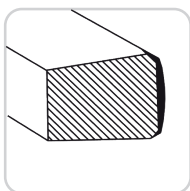
БОЧКООБРАЗНОЕ

R



ТРАПЕЦЕВИДНОЕ
СИММЕТРИЧЕСКОЕ

B



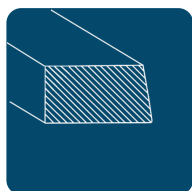
ТРАПЕЦЕВИДНОЕ НЕ
СИММЕТРИЧЕСКОЕ

T

HK

2

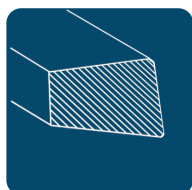
КОМПРЕССИОННЫЕ КОЛЬЦА



УСЕЧЕННОЕ
КОЛЬЦО
M



УСЕЧЕННОЕ СКРЕБКОВОЕ
КОЛЬЦО
NM

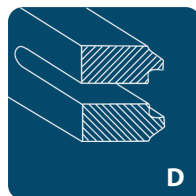


УСЕЧЕННОЕ ТРАПЕЦЕВИДНОЕ
КОЛЬЦО
TM



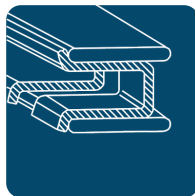
3 МАСЛОСЪЁМНЫЕ КОЛЬЦА

ЩЕЛЕВОЕ ОТВЕРСТИЕ
МАСЛОСЪЁМНОГО КОЛЬЦА



МАСЛОСЪЁМНОЕ
КОЛЬЦО СО
СПИРАЛЬНОЙ
ПРУЖИНОЙ

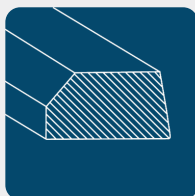
DSF
GSF
DSFST (сталь)



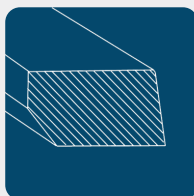
МАСЛОСЪЁМНОЕ КОЛЬЦО
МНОГОФУНКЦИОНАЛЬНОЙ
СТАЛИ

ИЗ
SLF

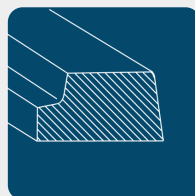
ВАРИАНТЫ КРОМКИ (ЗАЗОРА ЗАМКА) КОМПРЕССИОННЫХ КОЛЕЦ



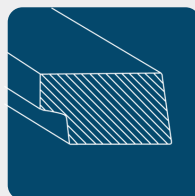
ВНУТРЕННИЙ
СКОС
IF



ВНУТРЕННИЙ
СКОС СНИЗУ
IFU

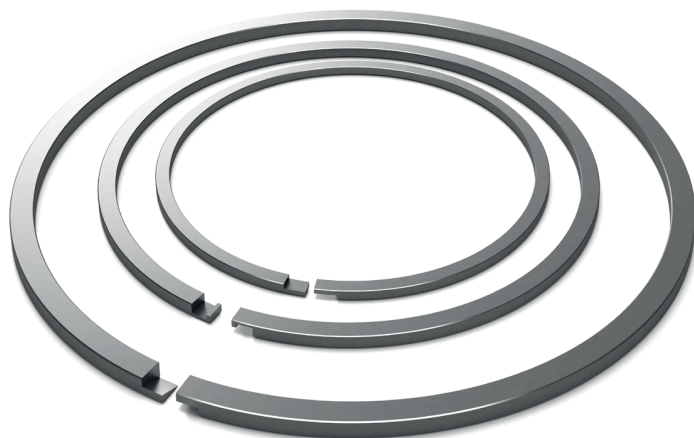


ПРЯМОУГОЛЬНОЕ
С ВНУТРЕННЕЙ
ВЫТОЧКОЙ
IW



ПРЯМОУГОЛЬНОЕ
С ВНУТРЕННЕЙ
ВЫТОЧКОЙ СНИЗУ
IWU

POWERSEAL®
ТИПЫ
СОЕДИНЕНИЯ
КОЛЕЦ



SH: СОЕДИНЕНИЕ ЗАМКМ



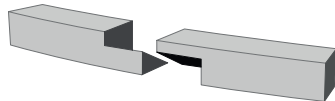
**SO: ПЕРЕКРЫВАЮЩЕЕ СОЕДИНЕНИЕ
(В СВОБОДНОМ ПОЛОЖЕНИИ)**



S: СОВМЕЩЕНИЕ (В СВОБОДНОМ ПОЛОЖЕНИИ)



**SO: ПЕРЕКРЫВАЮЩЕЕ СОЕДИНЕНИЕ
(В СВОБОДНОМ ПОЛОЖЕНИИ)**



SDC: СОЕДИНЕНИЕ ПОД ДИАГОНАЛЬНЫМ УГЛОМ



SDCL: ЛЕВО

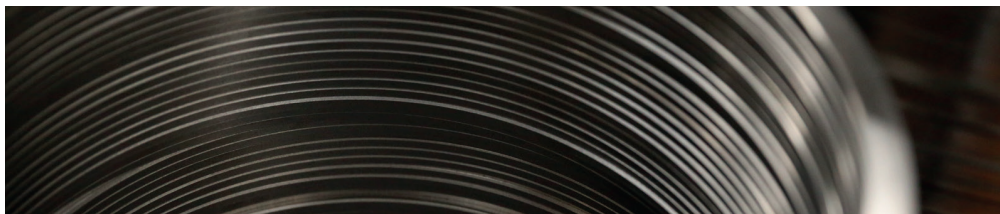


SDCR: ПРАВО



Для типов кольцевых соединений и запросов, пожалуйста, свяжитесь с нами.

ПОКРЫТИЕ



ФОСФАТИРОВАНИЕ (P): ФОСФАТНОЕ ПОКРЫТИЕ НА ВСЕХ ПОВЕРХНОСТЯХ

При фосфатировании кристаллические фосфаты осаждаются на всех поверхностях поршневых колец, кроме хромированных участков.

Фосфатный слой имеет толщину 0,002 - 0,005 мм и улучшает работу поршневого кольца за счет увеличения адгезии масла.

Кроме того, фосфатный слой оказывает определенное антикоррозионное действие в течение длительных периодов хранения даже в условиях повышенной влажности.

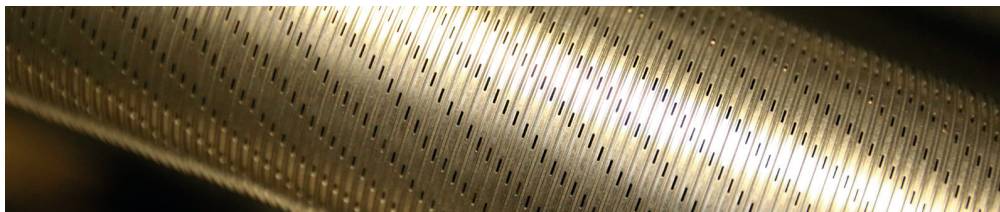
ХРОМИРОВАННОЕ ПОКРЫТИЕ (CR): ХРОМИРОВАННЫЕ РАБОЧАЯ И СОЕДИНИТЕЛЬНАЯ ПОВЕРХНОСТИ

Слой гальванического хрома снижает износ как самого поршневого кольца, так и самого компонента, о который происходит трение, рабочей поверхности цилиндра или гильзы. Так это может гарантировать, что срок службы поршневых колец и двигателя будет одинаковым.

Как компрессионные, так и масляные контрольные кольца могут быть хромированы.

АЗОТИРОВАНИЕ (NIT):

При таких процессах атомы азота проникают в основной металл и распространяются в нём, что значительно увеличивает твёрдость поверхности. Такое покрытие в основном используется для стальных верхних и масляных колец. Хотя оно и обладает очень хорошей износостойкостью, его стойкость к истиранию похожа на хромовое покрытие.



МАТЕРИАЛЫ

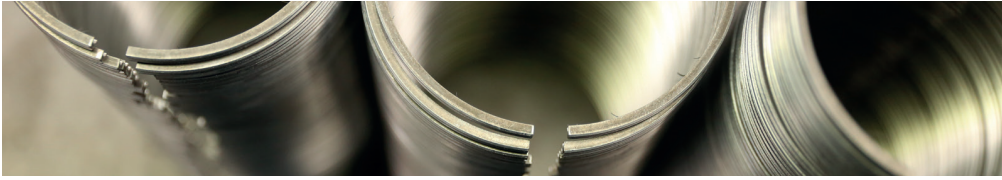
Наш литейный завод производит два вида материалов для изготовления поршневых колец Powerseal в соответствии со стандартом ISO 6621-3.

1) Чугун с шаровидным графитом (KG): чугун класса 50 по стандарту ISO со сфероидальным графитом, прочный невоспламеняемый материал. Выдерживает большее давление и температуры, чем серый чугун.

2) Серый чугун (LG): Чугун класса 20 по ISO с пластинчатым графитом, стандартный материал для производства поршневых колец с очень хорошими смазывающими характеристиками, благодаря наличию графитовых чешуек.

3) Сталь (ST): класс ISO 60, тоньше, легче, лучше работает при высоких оборотах двигателя.

Все верхние и все хромированные масляные кольца в комплектах поршневых колец Powerseal изготовлены из чугуна с шаровидным графитом для обеспечения превосходства качества и долговечности.



Функции

Поршневые кольца должны выполнять 3 основные функции в двигателях:

- 1) Отсоедините камеру сгорания от картера двигателя
- 2) Ограничьте и контролируйте расход масла
- 3) Передайте тепло, поглощаемое поршнем в процессе сгорания, охлаждаемым стенкам цилиндра

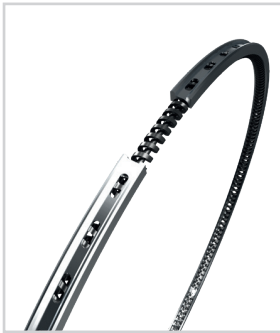
КОМПРЕССИОННЫЕ КОЛЬЦА

Компрессионные кольца выполняют функцию уплотнения давления, создаваемого в камере сгорания, и передают тепло к охлаждаемым стенкам цилиндра подобно перемычке. Они также контролируют расход масла.

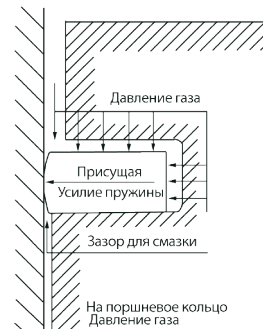
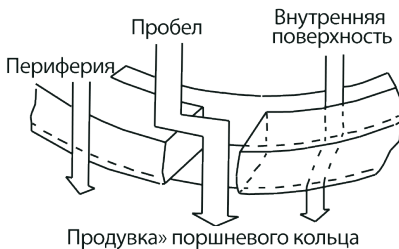


КОЛЬЦА ДЛЯ КОНТРОЛЯ МАСЛА

Кольца контроля масла регулируют и ограничивают расход масла. Они соскабливают излишки смазочного масла со стенок цилиндра и возвращают его в картер. Они предназначены для образования тонкой масляной пленки, обеспечивающей смазку поршня и колец.



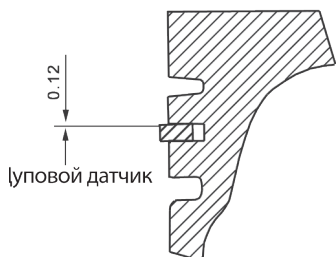
Неправильный контроль масла приводит к приготовлению пищи (остатки углерода) или синему дыму в Выхлопных газах и приводит к чрезмерному расходу масла. Скребок или второе компрессионное кольцо выполняет функции как компрессионного Кольца, так и кольца для контроля масла. Усилие радиальной пружины в установленном кольце увеличивается при работе двигателя За счет давления газа за кольцом. Осевой контакт со стороны канавки поршня, по существу, является результатом давления газа со стороны кольца. Уплотнительная поверхность этой уплотнительной системы должна иметь чрезвычайно высокое Качество поверхности. Пазы должны иметь минимальные допуски по ширине.



РЕКОМЕНДАЦИИ ПО УСТАНОВКЕ ДЛЯ ПОРШНЕВЫХ КОЛЬЦА POWERSEAL

1) **СНАЧАЛА тщательно ОЧИСТИТЕ ПОРШНИ** и удалите весь нагар из кольцевой канавки и Отверстий для слива масла. Убедитесь, что боковые стороны паза или радиусы канавок не повреждены, чтобы предотвратить утечку. Замените треснувшие или деформированные и изношенные поршни.

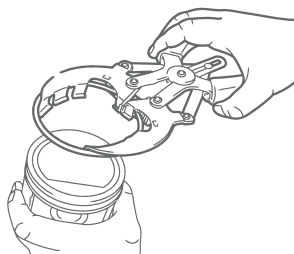
2) **ПРОВЕРЬТЕ КАНАВКИ ПОРШНЕВОГО КОЛЬЦА.** Если измерен зазор в 0,12 мм или более между новым Кольцом с боковой поверхностью и соответствующей стенкой канавки, это означает, что поршень сильно изношен и подлежит



Зазор между пазами (мм)	Использование поршня
0,05 - 0,10	Поршень может быть повторно использован без Ограничений
0,11 - 0,12	Необходима большая осторожность
> 0,12	Необходимы новые поршни

3) **ПРОВЕРЬТЕ ИЗНОС ЦИЛИНДРА.** Если износ цилиндра превышает 0,10 мм. Для двигателей с искровым зажиганием И толщиной 0,15 мм. В дизельных двигателях также необходимо заменить цилиндр. Необходимо удалить нагар Из верхней части отверстия цилиндра.

4) **УСТАНОВИТЕ КОЛЬЦА**, начиная с нижнего кольца, используя подходящий расширитель поршневых колец (инструмент). Не растягивайте кольца слишком сильно, так как они могут пластически деформироваться и больше не будут обеспечивать идеальное уплотнение. Кольца с «ВЕРХНИМ» тиснением должны располагаться таким образом, чтобы «ВЕРХНЕЕ» тиснение или любая другая маркировка были обращены к головке поршня. При использовании масляных регулирующих колец с винтовой пружиной зазор между пружинами должен быть смещен на 180°.



5) **ПОСЛЕ СБОРКИ КОЛЕЦ** скрутите их так, чтобы зазоры между кольцами располагались в шахматном Порядке по окружности поршня (на расстоянии 120° друг от друга в случае 3 колец, на расстоянии 90° друг от друга в случае 4 колец).

6) **ПЕРЕД сборкой** поршня с кольцами смажьте поверхности подшипников чистым моторным маслом, чтобы предотвратить повреждения, вызванные работой всухую. Вдавите поршневые кольца в пазы с помощью кольцевого компрессора и осторожно вставьте поршень в Отверстие цилиндра.

7) **ЧИСТОТА ВО ВРЕМЯ МОНТАЖА ЧРЕЗВЫЧАЙНО ВАЖНА** для гарантии Бесперебойной работы двигателя. Убедитесь, что воздух, масло и топливо эффективно отфильтрованы или очищены. Необходимо использовать только масло и топливо, рекомендованные производителями двигателей и транспортных средств.

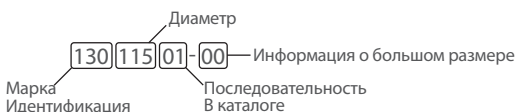
8) **НЕ ИСПОЛЬЗУЙТЕ ХРОМИРОВАННЫЕ КОЛЬЦА В ХРОМИРОВАННЫХ ВКЛАДЫШАХ**



КАК СДЕЛАТЬ ЗАКАЗ

Для заказа наборов поршневых колец, перечисленных в этом каталоге, достаточно указать номер детали. Дополнительные сведения о типе двигателя предпочтительны, но не являются обязательными.

Пример, для заказа: Набор поршневый автомобиль Daimler-Benz OM 360,
Диаметр 115 мм, стандартный размер
Ваш заказ должен быть: 13011501-00



СПЕЦИАЛЬНЫЕ РАЗМЕРЫ И ЗАКАЗЫ

Если вы не можете найти в каталоге поршневое кольцо или какой-либо другой размер который вы ищете, пожалуйста свяжитесь с нами.

ОПЗНАВАТЕЛЬНЫЕ ЗНАКИ
ДЛЯ БОЛЬШИХ РАЗМЕРОВ

пример

Метка. мм.	Дюйм.
00 =	СТАНДАРТНЫЙ = СТАНДАРТНЫЙ
04 =	+0.20
05 =	+0.25 =+0.010"
06 =	+0.40 =+0.015"
07 =	+0.50 =+0.020"
08 =	+0.60 =+0.025"
09 =	+0.75 =+0.030"
10 =	+0.80 =+0.035"
11 =	+1.00 =+0.040"
13 =	+1.25 =+0.050"
14 =	+1.50 =+0.060"
16 =	+2.00 =+0.080"

D-BENZ OM 352

Часть. Нет	Сул. Диаметр (mm)	(mm)
13009702-00	97.00	STD
13009702-05	97.25	+0.25
13009702-07	97.50	+0.50
13009702-09	97.75	+0.75
13009702-11	98.00	+1.00
13009702-14	98.50	+1.50



ВАЖНОЕ ЗАМЕЧАНИЕ

Этот каталог был составлен и контролировался очень тщательно. Тем не менее, мы не несем ответственности за какие-либо ошибки или упущения.

Кроме того, мы оставляем за собой право вносить технические изменения в характеристики колец в результате постоянного технологического

Развития в области поршневых колец.

Выбор наборов колец, предлагаемых в нашем каталоге, постоянно меняется. Если вы ищете наборы колец, которые не указаны в этом каталоге, пожалуйста, обратитесь к нашим сотрудникам. После выпуска этого каталога все более ранние версии станут недействительными.

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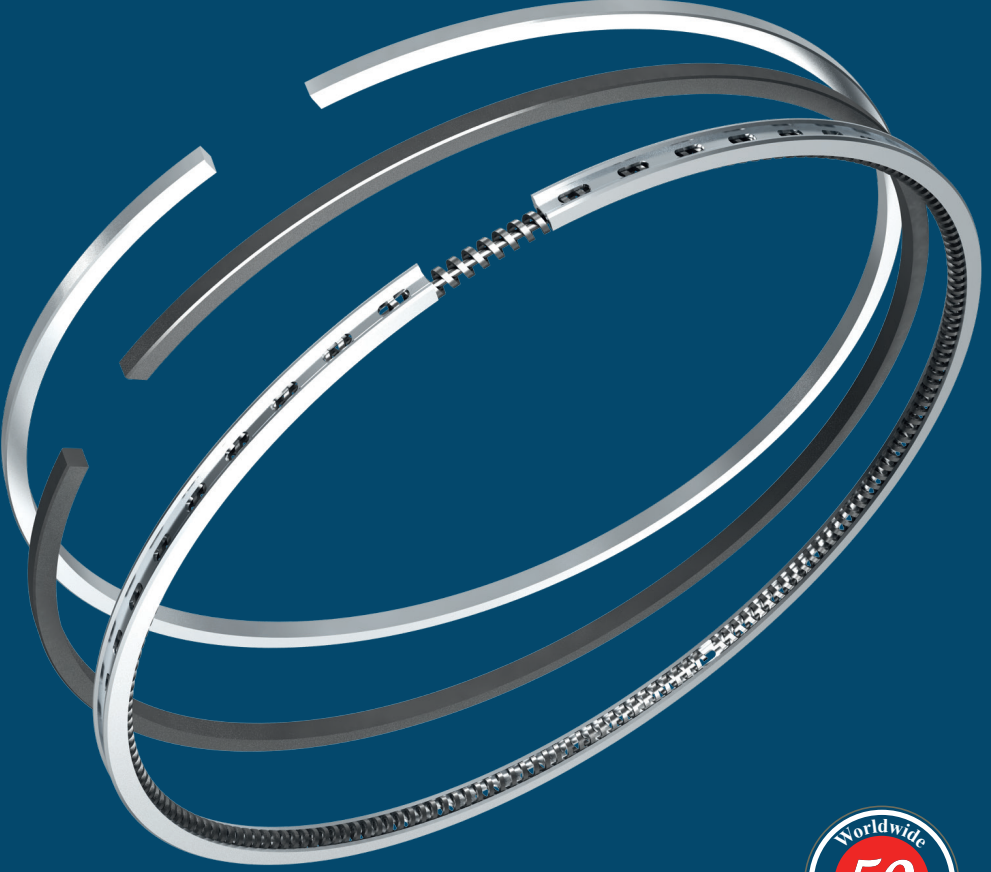
Исключаются.

Каталог не является руководством по эксплуатации поршневых колец. Он не содержит никаких рекомендаций в юридическом смысле.

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AUDI	6 Пожалуйста, смотрите VAG
BBC	6 Пожалуйста, смотрите COMP.
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POWER SEAL[®]
PISTON RINGS



SEGMAN KATALOĐU

ÜRETİCİ FİRMA  SAMSUN SEGMAN SANAYİ

www.samsunsegman.com

**TR**

KATALOG 10

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/// SAMSUN SEGMAN SANAYİ

SAMSUN SEGMAN SANAYİ, nesilden nesile geçen 50 yıllık bilgi birikimi, sabır ve çalışmanın eseridir. Şirketimizin özünde bulunan bu hasletler çağdaş yönetim teknikleri ve AR-GE ye dayalı bilimsel üretim yöntemleri ile bezenmiştir.

Günümüzde, SSS son teknolojiyi kullanarak en yüksek kalitede segman üretmeyi hedeflemekte olup, çeşitli motor, traktör ve hava/fren kompresörü firmalarının ana sanayi tedarikçisidir.

TARİHÇE

- 1953** Ahmet Hidayetoğlu, ilk kuşak olarak, yerelde segman ve gömlek üretimine başladı.
- 1965** İkinci kuşakla beraber, balıkçı tekneleri ve su pompaları için segman imalatına geçildi.
- 1987** Samsun Segman Sanayi Ltd. Şti. kuruldu ve firma stratejik olarak segman üretiminde uzmanlaşma kararı verdi.
- 1988** Samsun'da ilk fabrika binası inşaatı tamamlandı.
- 1989** Ürünlerimizin küresel pazarda dağıtımına başlandı.
- 1992** Samsun Segman Sanayi segmanlarının ilk mağazası İstanbul'da açıldı.
- 1994** SSS segmanlarının kalitesi Türk Standartları Enstitüsü tarafından güvence altına alındı.
- 2002** SSS logosu yerini tüm dünyada POWERSEAL PISTON RINGS markasına bıraktı.
- 2003** Firmamız ISO 9001-2000 Kalite Standartları Sertifikası'nı aldı.
- 2005** Ürün gamımız binek, ticari araç, traktör, kamyon, otobüs, marin, lokomotif motorlarının yanısıra, çeşitli hava ve fren kompresörlerinin segmanlarını da bulunduracak kadar genişledi.
- 2008** Dünyanın çeşitli ülkelerinde motor fabrikalarının ve kompresör imalatçıların orijinal parça tedarikçisi oldu.
- 2014** Powerseal markası 70 ülkeye ulaştı.
- 2015** Dizel motorlara uygun çelik yağ segmanı üretimine başlandı.
- 2016** IATF 16949:2016 sertifikası alındı.
- 2017** Powerseal markası yeni ambalajı ve görsel kimliği ile kendini yeniledi.
- 2019** Samsun Segman Sanayi 10.000 m² alanda yer alan yeni ve modern imalat ve yönetim tesisine taşındı.
- 2022** EAC, Rusya & Inmetro, Brezilya teknik uyumluluk sertifikalarımızı aldık.
- 2023** Karbon ayak izimizi azaltmak ve sürdürülebilirlik adına yenilenebilir enerjisi konusunda yatırım yaparak kendi elektriğimizi üretmeye başladık.

NEDEN POWERSEAL ?

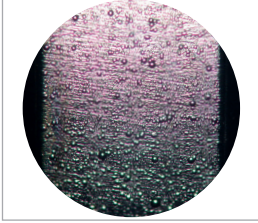


Alışma Süresini Azaltan Lebleme İşlemi

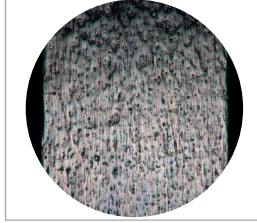
Powerseal : Var ✓

Bazı üreticiler: Lebleme işlemi yapmamaktadır. Dolayısıyla segmanlar, dış yüzeylerinde pürüzlülük yüksek iken motora takılıyor, alışma süresi uzuyor, gömlek çiziliyor. Bu da motorda güç kaybına yol açmaktadır.

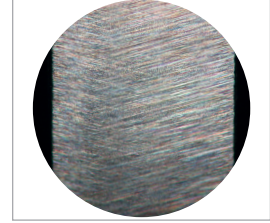
X50 büyütülmüş segman kesidi



Firma A- Leblemesiz



Firma B- Polisajlı



Powerseal – Leblenmiş

Krom Kaplı Segmanların Kırılmaya Dayanıklı Küresel Grafitli Dökme Demir (Sfero) Malzemeden Üretilmesi

Powerseal : Var ✓

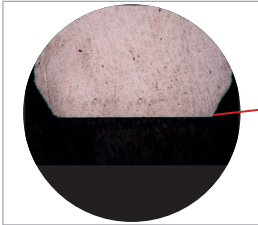
Bazı üreticiler: Krom kaplı segmanları lamel grafitli dökme demirden imal etmektedirler. Böylece, segmanlar motora takılma aşamasında ya da dizel motorların vuruntulu ve yüksek sıkıştırma oranlarında çalışması esnasında kırılabilmektedirler.

Uzun Ömürlü Kullanım İçin Kalın Krom Kaplama

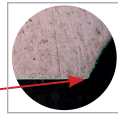
Powerseal : Var ✓

Bazı üreticiler: 20-40 mikron gibi yetersiz krom kaplama yapılması segman ömrünü beklenenin altına indirmektedir.

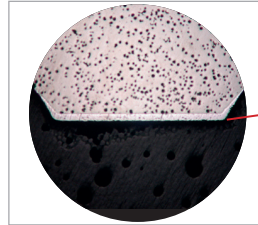
X50 büyütülmüş segman kesidi



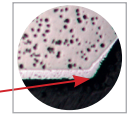
Firma A- 20 Mikrondan Az



Çok ince krom tabakası



POWERSEAL – 100 Mikron



Kalın krom tabakası

Bünyesinde, Uzmanlaşmış Döküm Tesisleri

Powerseal : Var ✓

Bazı üreticiler: Malzemenin döküm işlemini dışarıya yaptırmakta, dolayısıyla malzeme üzerinde sınırlı kontrolleri bulunmaktadır.

Hızlı Teslimat – 1 Günden Maksimum 6 Haftaya

Powerseal : Var ✓

Bazı üreticiler: 6 – 8 aya varan teslimat süreleri ile pazarın ihtiyaçlarına zamanında cevap verememektedirler.

Çok Hareket Gören Kalemler İçin Stok Tutulması

Powerseal : Var ✓

Bazı üreticiler: Stok tutmayan firmalar küçük miktarlı siparişleri geri çevirmekte ya da uzun teslim süreleri vermektedirler.

SEGMAN ÇEŞİTLERİ

TEPE (ATEŞ)
SEGMANI

KOMPRESYON
SEGMANI

YAĞ
SEGMANI

BAŞLICA İKİ TİP SEGMAN VARDIR

I KOMPRESYON SEGMANI

II YAĞ SEGMANI

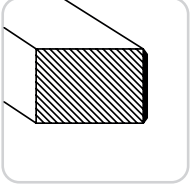
Günümüz motorlarında kullanılan pistonlarda biri yağ ikisi kompresör segmanı olmak üzere 3 adet segman bulunur.

Kompresyon segmanlarından tepe veya ateş segmanı en üst piston kanalında, diğer kompresyon segmanı ikinci kanalda ve yağ segmanı üçüncü kanalda yer alır.

Sıklıkla ikinci kanalda yer alan kompresyon segmanı sıyrıcı kanallı olur.

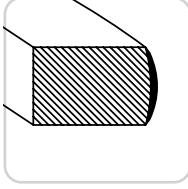


1 TEPE SEGMANI ÇEŞİTLERİ



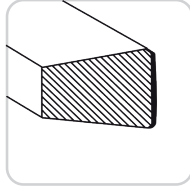
**DİKDÖRTGEN
SEGMAN**

R



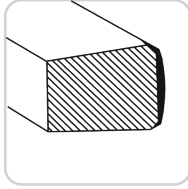
**YUVARLATILMIŞ
YÜZEYLİ SEGMAN**

B



**TRAPEZ KESİTLİ
SEGMAN**

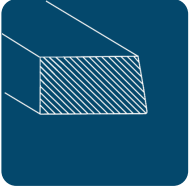
T



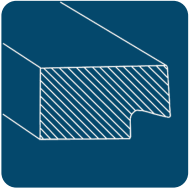
**TEK TARAFLI
TRAPEZ KESİTLİ
SEGMAN**

HK

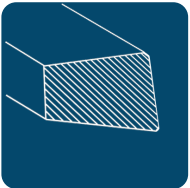
2 KOMPRESYON SEGMANI ÇEŞİTLERİ



**DIŞTAN KONİK
SEGMAN**
M



**DIŞTAN KONİK SIYIRICI
KANALLI SEGMAN**
NM

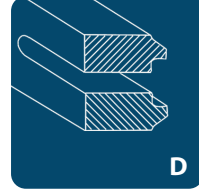


**DIŞTAN KONİK TRAPEZ
KESİTLİ SEGMAN**
TM



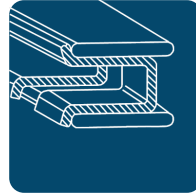
3 YAĞ SEGMANI ÇEŞİTLERİ

YAYSIZ YAĞ SEGMANLARI



İÇTEN SİRİRAL YAYLI YAĞ SEGMANLARI

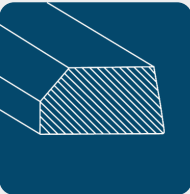
DSF
GSF
DSFST (ÇELİK)



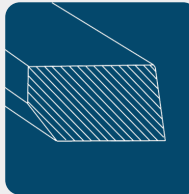
ÇOK PARÇALI ÇELİK YAĞ SEGMANI

SLF

KOMPRESYON SEGMANLARININ KENAR ŞEKİLLERİ



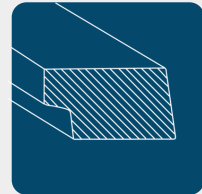
ÜST KENAR
PAHLI
IF



ALT KENAR
PAHLI
IFU

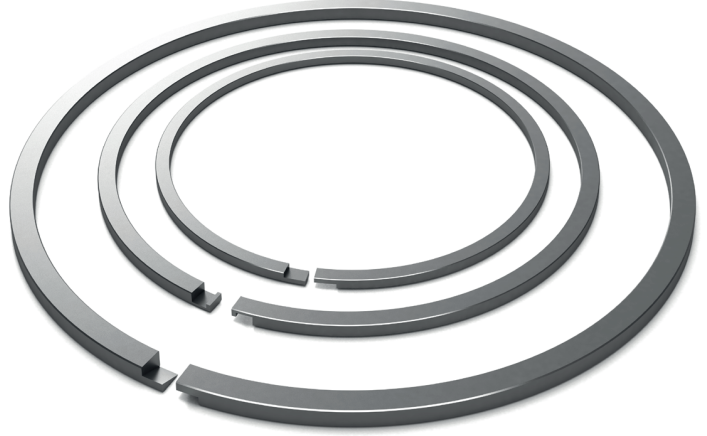


ÜST KENAR
KADEMELİ
IW



ALT KENAR
KADEMELİ
IWU

KENETLİ SEGMAN ÇEŞİTLERİ



SH: KİLİTLİ SEGMAN



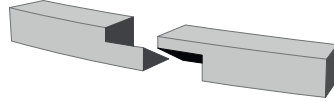
SO: KAPALI BİNDİRMELİ (SERBEST HALDE)



S: AÇIK BİNDİRMELİ (SERBEST HALDE)



SA: AÇILI BİNDİRMELİ



SDC: ÇAPRAZ AĞIZ KESİM

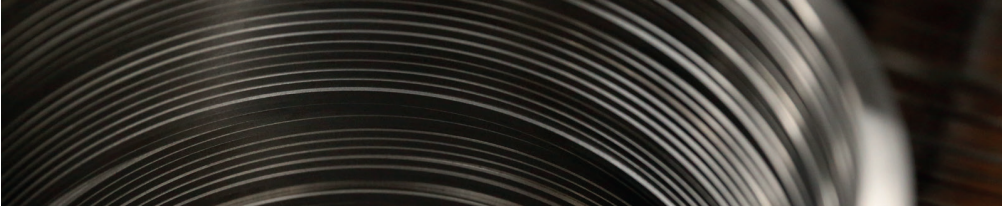


SDCL: SOLDAN

SDCR: SAĞDAN

i Kenetli segman ihtiyaçlarınız için lütfen bize ulaşın.

KAPLAMALAR



FOSFAT KAPLAMA (P)

Segmanlar fosfat kaplandığında kromlu yüzeyler dışında tüm yüzeylere fosfat kristalleri yapışarak birikir.

Kaplama kalınlığı 2-5 mikron arasındır. Segmanların alışmasını hızlandırır ve motor yağının segman yüzeylerinde tutunmasını sağlar. Nemli ortamlarda bile pasa karşı koruyucu etkisi ile uzun süreli stoklamalara olanak sağlar.

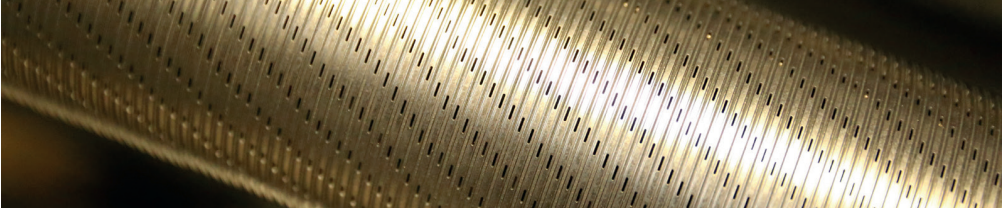
KROM KAPLAMA (CR)

Sürtünen yüzeylerde elektroliz yoluyla kaplanan krom, segmanın aşınmaya karşı dayanımını yükselttiği gibi diğer temas ettiği parçaların da (silindir bloğu ve gömleği) aşınmasını önler. Böylece tüm parçaların ve motorun çalışma ömrü uzamış olur.

Tepe ve yağ segmanının her ikisi de krom kaplı olabilir. Ancak krom kaplı silindir gömleği kullanılan motorlarda kesinlikle krom kaplı segman kullanılmaz.

NİTRÜR KAPLAMA (NIT) :

Bu kaplama işleminde nitrojen atomları uygulandığı metale nüfuz ederek, yüzeyini sertleştirir. Çoğunlukla çelik tepe ve yağ segmanlarında kullanılır. Aşınma dayanımı çok iyidir ve krom kaplamaya benzer çizilme dayanımı sağlar.



SEGMANLARDA MALZEME

POWERSEAL piston segmanları başlıca 3 tür malzemedен üretilir:

- I KG: ALAŞIMLI KÜRESEL GRAFİTLİ DÖKME DEMİR (GGG)
- II LG: ALAŞIMLI LAMEL GRAFİTLİ DÖKME DEMİR (GG)
- III ST: ÇELİK

POWERSEAL segman takımlarındaki tüm tepe segmanları ve yağ segmanları krom kaplamalı küresel grafitli (SFERO) dökme demir veya özel çelikten imal edilmektedir.

Bu özellik bir kalite ve üstünlük göstergesidir.

Üç ana malzemenin kendi içinde segman özellik ve ölçülerine göre alt malzeme türleri de kullanılmaktadır.



SEGMANLARIN İŞLEVLERİ

Segmanlar motorlarda 3 temel işlevi yerine getirirler:

- 1) Yanma odası ile krank kutusu (karter) arası ayırımı ve sızdırmazlığı sağlarlar.
- 2) Motordaki yağ kullanımını sınırlar ve kontrol ederler.
- 3) Pistonun yanma odası ve yanmadan aldığı ısıyı bir köprü görevi görerek soğutma yapılan silindir duvarlarına ve bloğa iletirler.

KOMPRESYON SEGMANLARI

Kompresyon segmanları piston tepesinde oluşan basıncı kartere sızdırmadan tutarlar ve piston üzerinde oluşan ısıyı su veya hava ile soğutulan silindir duvarlarına iletirler, aşırı ısınmayı önlerler. Yağlama ve yağ sarfiyatını düzenlerler.



YAĞ SEGMANLARI

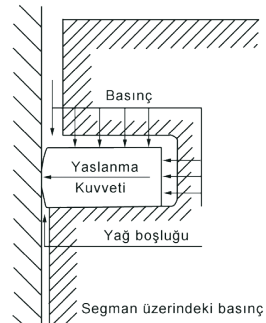
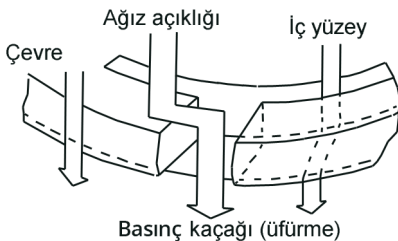
Motorda yağ kullanımını sınırlar ve düzenlerler. Silindir duvarlarında bulunan fazla yağı sıyrarak kartere geri döndürürler.

Yağ segmanlarının tasarımı piston ve segmanlarla silindir duvarları üzerinde ince bir yağ tabakası bırakacak, parçaların yağsız çalışmasını önleyecek şekilde yapılmıştır.



Aşırı yağ sarfiyatı piston kanallarında karbon kalıntısı (kömürleşme), egzoz gazında mavimsi duman ve motorda yağ eksilmesi olarak gözlenir. Pistonlarda bulunan ikinci kompresyon segmanı veya sıyrıcı segman hem kompresyon segmanı hem yağ segmanı olarak görev yapar. Takılan segmanların uyguladığı radyal kuvvete (Dışa yaslanma kuvveti) yanmadan doğan basınç da katkıda bulunarak bu kuvveti artırır. Piston kanalı yüzüne segmanın oturmasını sağlayan kuvvet de tepede oluşan basınçtan gelmektedir.

Tüm bu yüzeylerin uygun bir şekilde imal edilmiş olması, sızdırmazlık için temel şarttır. (Honlama, Piston Kanal Yüzeyleri, Segman Yüzeyleri) Bu yüzeyler yeterli sızdırmazlık sağlamaz ise yanma basıncı kaçığı (üfürme) yüzeylerin ısınması, yağ filminin yanması ve motor bileşeni parçalarının tahribine neden olur.



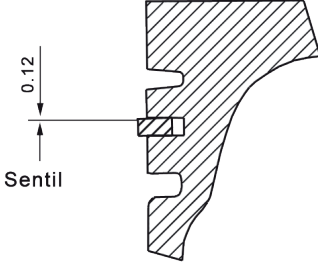
MONTAJ ÖNERİLERİ

1) ÖNCE PİSTONLAR TAMAMEN TEMİZLENMELİDİR.

Piston kanallarında ve yağ geçiş deliklerinde bulunan karbon kalıntıları tamamen temizlenmelidir. Piston kanal yüzeylerinin tahrip olmadığından emin olunmalıdır. Üfürme veya basınç kaçağı ancak bu şartlarda önlenmiş olur. Çatlak, deforme olmuş, aşınmış pistonlar kesinlikle yenilenmelidir.

2) PİSTON KANALLARININ GENİŞLİĞİ KONTROL EDİLMELİDİR.

Bunun için kanala yeni segman takılır. Segman ile piston kanal yüzeyi arasına sentil sokularak ölçüm yapılır. 0,12 mm ve daha fazla boşluk tespit edilirse piston ömrü bitmiş demektir. Bu pistonlar yenilenmelidir.



Kanal boşluğu (mm)	Piston Kullanılabilirliği
0,05 - 0,10	Piston kullanılabilir
0,11 - 0,12	Piston iyi incelenmeli
> 0,12	Piston yenilenmeli

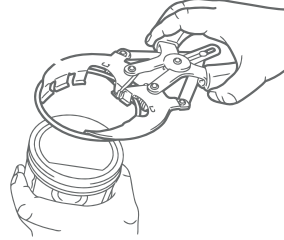
3) SİLİNDİR AŞINMASI KONTROL EDİLMELİDİR.

Silindir çapı benzinli motorlarda 0,10 mm., dizel motorlarda 0,15 mm.' den fazla büyümüş ise yenilenmelidir. Eski silindir kullanılıyorsa segman hareket bölgesinin üzerinde kalan üst silindir boşluğu kısmında bulunan karbon kalıntıları tamamen temizlenmelidir.

4) SEGMANLARIN PİSTONLARA MONTAJINDA SEGMAN PENSESİ KULLANILMALIDIR.

Montaj en alt kanalda bulunan yağ segmanından başlar. Segmanları aşırı derecede açmak kalıcı deformasyona yol açar ve asıl görevleri olan sızdırmazlığı sağlayamaz. Bu yüzden yeteri kadar açıp kanala pense ile yerleştirmek gereklidir.

Segmanların "TOP" yazısı üstte gelecek şekilde yanma odasına bakar durumda monte edilmesi şarttır. Yağ segmanının yayının ek yeri, segman ağızının 180 derece dönük olarak karşısına getirilmelidir.



5) SEGMANLAR TAKILDIKTAN SONRA, öyle bir açı ile yerleştirilmelidirler ki her bir segmanın ağız boşluğu birbiri ile 120° açı yapmalıdır. (bu boşluk 3 segman durumunda 120°, 4 segman durumunda 90° dir).

6) SEGMANLARI TAKMADAN ÖNCE YATAKLAMA YAPAN TÜM YÜZEYLER MOTOR

YAĞI İLE İYİCE yağlanmalıdır ki ilk çalışma anında yağsız, kuru çalışma nedeni ile parçalar zarar görmesin. Segmanlar piston kanallarının içine iyice yerleştirilmelidir. Bunun için segman sıkıştırma aparatı kullanılmalıdır. Dikkatlice segmanların takılı olduğu piston silindir boşluğuna kaydırılarak yerleştirilmelidir.

7) MOTORUN SORUNSUZ ÇALIŞMASI İÇİN MONTAJ SIRASINDA TEMİZLİK UNUTULMAMALIDIR.

Temizlik montajda en önemli unsurdur. Kullanılan yağ, yakıt ve havanın tertemiz olduğundan kesinlikle emin olunmalıdır. Sadece araç motor üreticisinin tavsiye ettiği yağ ve yakıt kullanılmalıdır.

8) KROM KAPLI SEGMANLAR KESİNLİKLE KROM KAPLI GÖMLEKLERDE KULLANILMAZ.

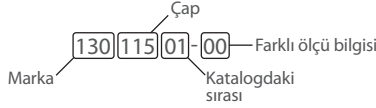


SEGMAN SİPARİŞİ

NASIL SİPARİŞ VERİLİR?

Katalogumuzdaki segman takımlarının siparişinde sadece parça numaralarının bildirilmesi yeterlidir. Ayrıca araç ve motor tiplerinin bildirilmesi de faydalı olacaktır, ancak zorunlu değildir.

Örnek olarak; Daimler Benz OM 360 115 mm. STD ölçüde segman siparişiniz için Powerseal parça no: 13011501-00 olarak belirtilmelidir. Bu numara: 13011501-00 marka indeksi , çap, katalogdaki sıra numarası, farklı ölçü olup olmadığını gösterir.



ÖZEL ÖLÇÜ VE SİPARİŞLER

Her standart ölçünün farklı çapta imalatı ve katalogta yer almayan segmanların imalatı istenen miktarlara bağlı olarak tesisimizde üretilebilir. Lütfen özel ürün istekleriniz için firmamızla irtibata geçiniz.



FARKLI ÖLÇÜ SEMBOLLERİ

ÖRNEK

Sembol	mm.	inch.
00	= STD	= STD
04	= +0.20	
05	= +0.25	=+0.010"
06	= +0.40	=+0.015"
07	= +0.50	=+0.020"
08	= +0.60	=+0.025"
09	= +0.75	=+0.030"
10	= +0.80	=+0.035"
11	= +1.00	=+0.040"
13	= +1.25	=+0.050"
14	= +1.50	=+0.060"
16	= +2.00	=+0.080"

D-BENZ OM 352

Parça No	Sil. Çapı(mm)	(mm)
13009702-00	97.00	STD
13009702-05	97.25	+0.25
13009702-07	97.50	+0.50
13009702-09	97.75	+0.75
13009702-11	98.00	+1.00
13009702-14	98.50	+1.50



ÖNEMLİ UYARI

Bu katalog azami bir dikkatle derlenmiş ve kontrol edilmiştir, buna rağmen oluşmuş olan herhangi bir hata ya da eksiklikten firmamız sorumlu değildir. Ayrıca, segman alanındaki teknolojik gelişmeler sebebiyle segman spesifikasyonlarında teknik değişiklikler yapma hakkını firmamız saklı tutmaktadır.

Ürün gamımız sürekli olarak genişlemektedir. Katalogta bulamadığınız her segman seti için lütfen personelimizle kontağa geçiniz. Bu katalogun kullanıma sunulması üzerine önceki tüm sürümler geçersizdir.

Bu katalog ya da bir bölümü bizimiz ve yazılı iznimiz olmadan yeniden yazılamaz veya kopyalayamaz. Tüm resimlerin ve tasarımın telif hakları saklıdır. Araçların ve üreticilerin adları, açıklamaları ve diğer verileri yalnızca karşılaştırma amacıyla belirtilmiştir.

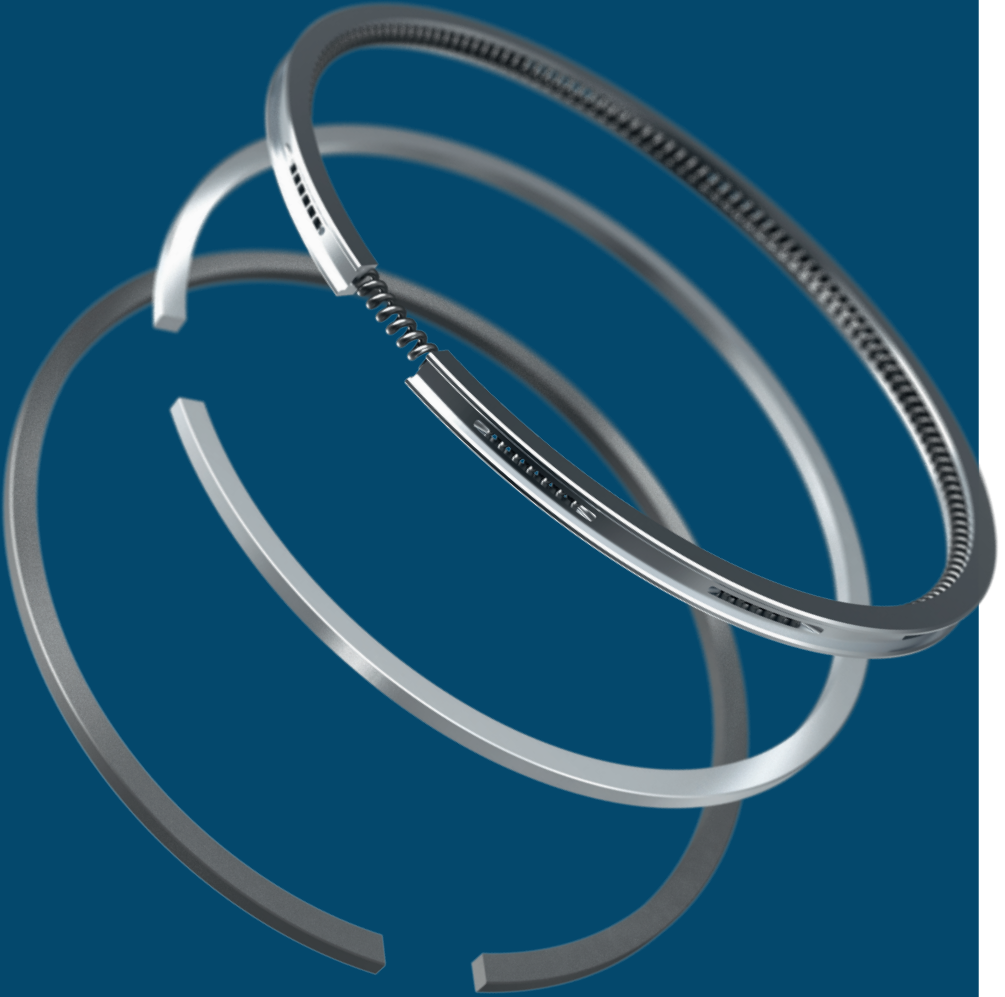
Bu katalog, segman kullanımı ve montajı için bir kullanım kılavuzu değildir. Yasal bir anlamda herhangi bir tavsiye içermemektedir. Herhangi bir şekilde, bu katalogdaki bilgilerden, belirtilen detaylardan veya yanlış kullanımdan, uygulamadan, depolamadan kaynaklanan hasar taleplerinden firmamız sorumlu değildir.

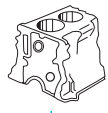

MARKA	SAYFA
ALFA ROMEO	1
ANDORIA	5
ATLAS COPCO	6
AUDI	6 Bkz. VAG
BBC	6 Bkz. COMPRESSORS
BEDFORD	7
BELARUS	8
BLMC	8
BMW	11
BUKH	17
CATERPILLAR	17
CHERRY	20
CHRYSLER	20
CITROEN	21
COMPRESSOR - AIR	26
COMPRESSOR - BRAKE	29
CUMMINS	39
DAEWOO	41
DAF	42
DAIHATSU	45
DAIMLER BENZ	46
DARVANA	66
DAVID BROWN	67
DEUTZ	68
FAB - FAMOS	80
FIAT	81
FIAT - IVECO	92
FORD	103
FORDSON	116
GUASCOR	117
HANOMAG	118
HATZ	119
HINO	122
HINOMOTO	122
HONDA	123
HYUNDAI	125
IFA	129 Bkz. ZETTI
IHC	129
ISEKI	137
ISUZU	138
IŞBORA	142
JCB	142
JENBACHER	143
JOHN - DEERE	144
KAMAZ	150
KHD	151 Bkz. DEUTZ
KIA	151
KNORR	152 Bkz. COMPRESSORS
KOMATSU	153
KUBOTA	155
LADA	160



MARKA	SAYFA
LAND ROVER	161
LIAZ	163
LIEBHERR	163
LISTER	164
LOMBARDINI	166
MACK	170
MALCOTIS	170
MAN	170
MARELLI	178 Bkz. COMPRESSORS
MAZDA	178
MERCEDES	180 Bkz. DAIMLER BENZ
MITSUBISHI	180
MWM	186
NISSAN	191
OPEL	197
PEGASO	206
PERKINS	207
PETTER	218
PEUGEOT	219
RENAULT	229
RENAULT RVI	240
ROBIN	243
ROLLS ROYCE	244
ROVER	244
RUGGERINI	245
SAAB	246
SAME	246
SCANIA	248
SEAT	251
SHIBAURA	252 Bkz. IŞBORA
SKODA	252
STEYR	252
SUBARU	255
SUPERSTAR	255
SUZUKI	255
TATA	256
TATRA	256
TOYOTA	257
URSUS	262
UTB	262
VAG	263
VALMET	274
VM	275
VOLKSWAGEN	277 Pls. see VAG
VOLVO - PKW	277
VOLVO - NUTZFAHRZEUGE	282
WESTINGHOUSE	287 Bkz. COMPRESSORS
YAMZ	287
YANMAR	287
ZETOR	292
ZETTI	295

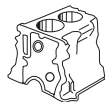

POWER SEAL[®]



PISTON RINGS





Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ALFA ROMEO							
In-line engine, diesel, 1.3l Vehicle: Mito 1.3 JD TM	4	69.60	1.50 1.50 2.00	R CR M P DSFST CR	KG 1 LG 1 ST	10506901-00	STD
In-line engine, fuel, 1.3l Vehicle: Giuletta Sprint, Spider, Giulia GT1300/TI/GT Junior	4	74.00	1.50 1.75 4.00	R IF CRP NM P G P	KG 1 LG 1 LG 1	10507401-00	STD
In-line engine, fuel, 1.6l 195.22 Vehicle: Giuletta, Alfa 75	4	78.00	1.50 1.75 3.50	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	10507801-00	STD
In-line engine, fuel, 1.6l 105.02, 105.14, 105.26, 116.00 Vehicle: Alfetta, Giuletta, Alfa 75, Spider	4	78.00	1.50 1.75 4.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	10507802-00	STD
In-line engine, fuel, 1.2l AS 301, 301.00 Vehicle: Alfasud, Arna	4	80.00	1.50 1.75 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	10508001-00	STD
1.3l 301.84 Vehicle: Alfasud, Berlina, Spider	4						
1.4l 301.68 Vehicle: Alfasud, Arna, 33	4						
In-line engine, fuel, 1.8l Vehicle: 751.8 Turbo, Giuletta 1.8 Turbo	4	80.00	1.50 1.50 3.50	R CR P NM P DSF CR	KG 1 LG 1 KG 1	10508002-00	STD
2.0l M631AT20C Vehicle: 164 2.0 ie Turbo	4						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ALFA ROMEO Cont.							
In-line engine, fuel, 1.8l Vehicle: Alfa 75 1.8ie	4	80.00	1.50 1.75 3.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	10508003-00	STD
In-line engine, fuel, 1.6l 676.01, M654- DA.15.T	4	82.00	1.20 1.20 2.00	R CR NM P SLF CR	ST KG 2 ST	10508201-00 10508201-06 10508201-08	STD + 0.40 + 0.60
1.7l 372.03, M654-FA.15.T	4						
1.4l 116 747 Vehicle : 145, 146, 147, 156	4						
In-line engine, diesel, 2.0l 839.A600 Vehicle: 156 JTD, 166 JTD	4	82.00	2.50 2.00 2.00	R CR NM P DSFST CR	KG 1 LG 1 ST	10508202-00	STD
In-line engine, diesel, 1.9l Vehicle: 147 1.9 JD TM	4	82.00	2.00 2.00 2.00	R CR NM P DSFST CR	KG 1 LG 1 ST	10508203-00 10508203-06 10508203-08	STD + 0.40 + 0.60
In-line engine, fuel, 2.0l M 647DA.19.T-672(930 A5) Vehicle: 145 2.0i 16V T.S.Quadr.	4	83.00	1.20 1.50 3.00	R CR NM P DSF CR	ST LG 1 KG 1	10508301-00 10508301-07 10508301-08	STD + 0.50 + 0.60
2.0l M 647DA.19.T BIS-672(930 A5) Vehicle: 146 2.0i 16V T.S.ti	4						
2.0l M 647HA.19.T-672(930 A5) Vehicle: 155 2.0i 16V T.S.	4						
2.0l M 647CA.19.T BIS-672(930 A5) Vehicle: GTV 2.0 16V T.S.	4						
In-line engine, fuel, 2.0l 932.A2.000, 937.A1.000 AR; 32310 AR 36301, AR; 36310 Vehicle: 147, 156, 166 2.0 16 V	4	83.00	1.20 1.20 2.00	R CR NM P SLF CR	ST KG 2 ST	10508302-00	STD

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
ALFA ROMEO Cont.								
In-line engine, diesel, 2.0l 844A2, 939B3, 940A4 Vehicle: 159 2.0 JD TM, Brera 2.0, Guiletta II 2.0, Spider IV 2.0,	4	83.00	1.50 1.50 2.00	R CR P NM P DSFST CR	KG 1 LG 1 ST	10508303-00	STD	
In-line engine, fuel, 2.0l 116(33), A19517 Vehicle: 2000 Berlina, Alfetta 2.0, Giulietta 2.0,75 2.0,75 Twin Spark	4	84.00	1.50 1.75 4.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	10508401-00	STD	
In-line engine, fuel, 1.8l M620AA18A Vehicle: 7155 Twin Spark,1.8i	4	84.00	1.50 1.50 3.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	10508402-00	STD	
2.0l 195.19 Vehicle: 75 2.0 Twin Spark,164 2.0 Twin Spark,2.0i	4							
In-line engine, fuel, 2.0l 116.55 Vehicle: Alfetta 2.0 i.e,90 2.0 i.e, Spider 2.0 i.e(Motronic)	4	84.00	1.50 1.75 3.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	10508403-00	STD	
In-line engine, fuel, 1.5l 301(28)/301(46) Vehicle: Alfasud,1.5 Ti,Sprint,Coupe,Alfa 33 1.5 4*4	4	84.00	1.50 1.75 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	10508404-00 10508404-06	STD + 0.40	
In-line engine, fuel, 1.9l AR 01655,R4,1962 cc, 94 kW 128 Ps Vehicle: Alfetta 2,0, Alfetta GT 2,0, Giulietta 2,0, GTV 2,0	4	84.00	1.50 1.75 3.94	R CR NM P G P	KG 1 LG 1 LG 1	10508405-00	STD	

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
ALFA ROMEO Cont.								
In-line engine, fuel, 1.7l M691 AA.17A Vehicle: 3316V	4	87.00	1.50	R IF CR	KG 1	10508701-00 10508701-06	STD + 0.40	
			1.75	NM P	LG 1			
			3.00	DSF CR	KG 1			
1.7l M300BA.17A Vehicle: Sprint 33	4							
In-line engine, fuel, 2.5l 119.00 Vehicle: Alfa 6,75 2.5 V6,90 2.5 V6, GTV 2.5 V6	6	88.00	1.50	R CR	KG 1	10508801-00	STD	
			1.75	M P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine, diesel, 2.0l HR 488 HT/2, VM 80 A Vehicle: 75, Alfetta, Giulietta	4	88.00	2.50	T CR	KG 1	10508802-00	STD	
			2.00	M P	LG 1			
			4.00	DSF CR P	KG 1			
2.5l HR 588 HT/2 Vehicle: Alfa 6 2.5 TD	5							
In-line engine, diesel, 1.8l HRT 392 Vehicle: 33	3	92.00	2.50	T CR	KG 1	10509201-00	STD	
			2.00	NM P	LG 1			
			4.00	DSF CR	KG 1			
2.4l HR 492 HI/HT Vehicle: Alfa 90, Alfetta, Giulietta	4							
2.5l HR 92.4 S-H Vehicle: 164	4							
In-line engine, diesel, 2,5 l Vehicle: Chrysler VW 524 CE	4	92.00	2.50	T CR	KG 1	10509202-00 10509202-07	STD + 0.50	
			1.50	NM P	LG 1			
			2.00	DSFST CR	ST			
3,1l Vehicle :Voyager VW 531 CE	5							

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ALFA ROMEO Cont.							
In-line engine, diesel, 3.0l Vehicle: Alfa164 3.0 TD	6	93.00	1.50	R CR	KG 1	10509301-00	STD
			1.50	M P	LG 1		
			3.50	DSF CR	KG 1		
In-line engine, diesel, 2.4l 8140.61, 8140.61.300 Vehicle: 30/40 AR 8, 35 AR 8	4	93.00	3.00	R CR	KG 1	10509302-00	STD
			2.00	M P	LG 1	10509302-06	+ 0.40
			4.00	DSF CR	KG 1	10509302-08	+ 0.60
In-line engine, diesel, 2.5l 8144.67 Vehicle: 10AR6, 14AR6	4	93.00	3.00	R CR	KG 1	10509303-00	STD
			2.00	M P	LG 1	10509303-06	+ 0.40
			3.00	DSF CR	KG 1	10509303-08	+ 0.60
In-line engine, fuel, 3.0l AR16102, AR16105, AR34301, AR36101 Vehicle: 166, Spider, GTV	V6	93.00	1.20	R NIT	KG 1	10509304-00	STD
			1.50	M IWU P	LG 1		
			3.50	GSF P	LG 1		
ANDORIA							
In-line engine, diesel, 2.5l Euro1, Euro 2 Vehicle: 4CT90-1		90.00	3.00	T CR P	KG 1	10709001-00	STD
			2.50	NM P	LG 1	10709001-07	+ 0.50
			3.00	DSF CR P	KG 1		
In-line engine, diesel, 2.5l Vehicle: 4C90, 1C90	4	90.00	3.00	T CR P	KG 1	10709002-00	STD
			2.50	M P	LG 1	10709002-07	+ 0.50
			4.50	DSF CR	KG 1		
In-line engine, diesel, 1HC 102		102.00	2.50	R CR	KG 1	10710201-00	STD
			2.50	M P	LG 1		
			2.50	M P	LG 1		
			4.50	G P	LG 1		
			4.50	G P	LG 1		
In-line engine, diesel, 18 HP Vehicle: S320, S322, S323, S324	1	120.00	3.00	R CR	KG 1	10712001-00	STD
			3.00	M P	LG 1		
			3.00	M P	LG 1		
			5.50	G P	LG 1		
			5.50	G P	LG 1		
In-line engine, diesel, 2.3l Vehicle: S-321		135.00	4.00	T CR P	KG 1	10713501-00	STD
			3.00	M P	LG 1		
			5.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ATLAS COPCO							
Compressor,air KT-4	1	60.00	3.50	M P	LG 1	11006000-00	STD
			3.50	M P	LG 1		
			3.50	NM P	LG 1		
			3.50	G P	LG 1		
			3.50	G P	LG 1		
Compressor,air 1612-1872	4	95.00	2.50	M P	LG 1	11009501-00	STD
			2.50	NM P	LG 1		
			4.00	DSF P	LG 1		
			4.00	G P	LG 1		
Compressor,air KT4-K1 1588	1	100.00	4.00	M P	LG 1	11010000-00	STD
			4.00	NM P	LG 1		
			4.00	G P	LG 1		
			4.00	G P	LG 1		
Compressor,air KT6-K1 1589	1	125.00	4.00	M P	LG 1	11012500-00	STD
			4.00	NM P	LG 1		
			4.00	G P	LG 1		
			4.00	G P	LG 1		
Compressor,air BT4 1404	2	130.00	3.00	M P	LG 1	11013000-00	STD
			3.00	NM P	LG 1		
			4.00	G P	LG 1		
			4.00	G P	LG 1		
Compressor,air	4	155.00	4.00	M P	LG 1	11015501-00	STD
			4.00	M P	LG 1		
			4.00	G P	LG 1		
Compressor,air BT5 -6	2	220.00	5.00	M P	LG 1	11022000-00	STD
			6.00	G P	LG 1		
			6.00	G P	LG 1		

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
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
Make - Engine - Model				Ring type	Material	Powerseal No	Size					
	No	Ø mm.										
BEDFORD												
In-line engine, diesel, 3.3l 200 Vehicle: RLC3, C3, D3,S3 Baureihe	4	98.42	2.38	R CR	KG 1	11609801-00	STD					
			2.38	M P	LG 1							
			2.28	M P	LG 1							
			4.76	DSF CR	KG 1							
			4.76	G P	LG 1							
In-line engine, diesel, 3.6l 10, 220 Vehicle: KCC 10, KBC 10, KAC 10 5.4l 5, J 330 Vehicle: KF-LC 5, KD-SL 5, KD-LC 5	4	103.20	2.38	R CR	KG 1	11610300-00	STD					
			2.38	M P	LG 1	11610300-03	+ 0.12					
			2.38	M P	LG 1	11610300-05	+ 0.25					
			4.76	DSF CR	KG 1	11610300-07	+ 0.50					
			4.76	D P	LG 1	11610300-09	+ 0.75					
						11610300-11	+ 1.00					
			In-line engine, diesel, 3.6l Vehicle: D,K,T,TJ,TKV Series 1.1/4-4 Ton Trucks,D,K,T,TJ,TKV Series 5-12 Ton Trucks 5.4l 330 Vehicle: D,K,T,TJ,TKV Series 1.1/4-4 Ton Trucks,D,K,T,TJ,TKV Series 5 -12 Ton Trucks	4	103.20	2.38	R CR	KG 1	11610301-00	STD		
						2.38	M P	LG 1	11610301-03	+ 0.12		
						4.76	DSF CR	KG 1	11610301-05	+ 0.25		
									11610301-07	+ 0.50		
									11610301-09	+ 0.75		
						11610301-11	+ 1.00					
In-line engine, diesel, 6.2l 381.60 Vehicle: KGLC-60, KGSC G-60	6	104.77				2.38	R CR	KG 1	11610400-00	STD		
						2.38	M I F P	LG 1				
						2.38	NM P	LG 1				
						4.76	DSF CR	KG 1				
						4.76	G P	LG 1				
			In-line engine, diesel, 7.6l 466, 70 Vehicle: Trucks KG/KH/KM Series,Trucks YRT Series,ERT,ERV,EPR,EMT,EM V,HMX,KMX Series	6	115.88	2.38	R CR	KG 1			11611501-00	STD
						2.38	M I F P	LG 1				
						2.38	M I F P	LG 1				
						4.76	DSF CR	KG 1				
						4.76	D P	LG 1				
						In-line engine, diesel, 8.2l 210 TD, 205 TD, 130 TD Vehicle: 500, TM	6	115.88				
2.38	M I F P	LG 1							11611502-03	+ 0.12		
4.76	DSF CR	KG 1							11611502-05	+ 0.25		
									11611502-07	+ 0.50		
									11611502-09	+ 0.75		
									11611502-11	+ 1.00		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BELARUS							
In-line engine, diesel MTZ 50 CT-50-1004060-15	4	110.00	3.00	R CR	KG 1	26011001-00	STD
			3.00	M P	LG 1		
			3.00	M P	LG 1		
			6.00	DSF CR	KG 1		
			6.00	D P	LG 1		
In-line engine, diesel, D260E2, D254E2, MTZ-1221, 1522, T-150KS 2601004060-B		110.00	3.00	T CR P	KG 1	26011002-00	STD
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, D65 i ego 240-1004060-A	4	110.00	3.00	R CR	KG 1	26011003-00	STD
			3.00	M P	LG 1		
			4.00	NM P	LG 1		
			6.00	DSF CR	KG 1		
In-line engine, diesel, D245, D260 Euro 4 262-1004060-B	4	110.00	3.00	T CR	KG 1	26011004-00	STD
			3.00	HKM CR P	KG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, D245 i ego 245-1004060-A	4	110.00	3.00	T CR P	KG 1	26011005-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			6.00	DSF CR P	KG 1		
BLMC							
In-line engine, diesel, 1.5l A50, A55 Vehicle: JM 10,J2M16,Morris Oxford,JU250,A50-A55	4	73.02	1.99	R IF CR P	KG 1	11707301-00	STD
			1.99	M IF P	LG 1		
			1.99	NM P	LG 1		
			3.94	DSF CR	KG 1		
			3.94	D P	LG 1		
In-line engine, diesel, 1.8l 1.8 TD Vehicle: TM 30	4	80.25	1.99	R IF CRP	KG 1	11708001-00	STD
			1.99	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 1.8l 9.731 Vehicle: J4-1000,Furgon Sava, Sherpa 185/220,240/250 , TD, TM 30	4	80.25	1.99	R IF CR P	KG 1	11708002-00	STD
			1.99	M P	LG 1		
			4.76	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
BLMC Cont.								
In-line engine, diesel, 1.6l Vehicle: Alpine 1700,Paykan,Mark II,Minx hunter	4	81.53	1.99	R IF CR	KG 1	11708100-00	STD	
			1.99	NM P	LG 1			
			3.94	DSF CR P	KG 1			
In-line engine, fuel, 2.3l Vehicle: Rover 80,88,109,Land Rover,Seater 10/12	4	90.47	1.79	R IF CR	KG 1	11709000-00	STD	
			1.79	M IF P	LG 1	11709000-05	+ 0.25	
			4.76	DSF CR	KG 1	11709000-07	+ 0.50	
In-line engine, diesel, 2.5l Vehicle: Morris,344 Traktör,Nuffield 3.4l Vehicle: Morris,344 Traktör,Nuffield 6.0l Vehicle: Morris,344 Traktör,Nuffield	3	95.00	3.96	T CR	KG 1	11709500-00	STD	
			2.38	M P	LG 1			
			2.38	NM P	LG 1			
	4	6.33	6.33	DSF CR	KG 1			
			6.33	D P	LG 1			
				6				
In-line engine, diesel, 3.4l 3401 BMC OEA,OEB	6	95.00	2.38	R CR	KG 1	11709501-00	STD	
			2.38	M P	LG 1			
			2.38	NM P	LG 1			
			6.33	DSF CR	KG 1			
			6.33	D P	LG 1			
In-line engine, diesel, 2.7l Levend 3.0 TD27	4	96.00	2.50	R CR	KG 1	11709601-00	STD	
			2.00	M IW CR	KG 1			
			4.00	DSF CR	KG 1			
In-line engine, diesel, 5.6l 6.98 T/D Vehicle: Boxer 1000-33, -43, Terrier 650/750	6	98.00	2.38	R CR	KG 1	11709800-00	STD	
			2.38	M P	LG 1			
			2.38	NM P	LG 1			
			6.33	DSF CR	KG 1			
			4.76	D P	LG 1			
In-line engine, diesel, 3.7l 4.98 NV Vehicle: Tractor 262, 272, 470, 485 2100, 4100 5.6l 6.98 DV,98 NV Vehicle: Boxer 1000-33-43,1200-33-38-42 Terrier 650T/750/850/950 Tractor 262,272,462	4	98.00	2.38	R CR	KG 1	11709801-00	STD	
			2.38	M P	LG 1			
			2.38	NM P	LG 1			
			6.33	DSF CR	KG 1			
	6							



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BLMC Cont.							
In-line engine, diesel, 3.8l 4-98V Vehicle: MP3749	4	98.00	3.00 2.38 4.76	T CR P M P DSF CR P	KG 1 LG 1 KG 1	11709802-00	STD
In-line engine, diesel, 2.8l 1042 Vehicle: Tractor 460	3	100.00	3.92 2.38 2.38 6.33 6.33	T CR M P NM P DSF CR D P	KG 1 LG 1 LG 1 KG 1 LG 1	11710001-00	STD
3.7l 1042 C60-C70-C80	4						
In-line engine, diesel, 6.5l 0.400, 0.40l Vehicle: 23 NW, COMET 90/100, Meteor CH 9XL, Panther suitable for chrome liner	6	107.21	3.43 3.43 6.35 6.35	T IW P T IW P SSF P S P	LG 1 LG 1 LG 1 LG 1	11710701-00	STD
In-line engine, diesel, 6.5l 0.400, 0.40l Vehicle: 23 NW, COMET 90/100, Meteor CH 9XL, Panther	6	107.21	3.17 2.38 4.76	T CR M IW P DSF CR	KG 1 LG 1 KG 1	11710702-00	STD
In-line engine, diesel, 6.5l Vehicle: SW 400, SW 400T suitable for chrome liner	6	107.21	3.43 3.43 6.35	T IW P T IW P SSF P	LG 1 LG 1 LG 1	11710703-00	STD
In-line engine, diesel, 6.5l Vehicle: SW 400, SW 400T	6	107.21	3.43 3.36 6.35	T IW CR P TM IW P DSF CR P	KG 1 LG 1 KG 1	11710704-00	STD
In-line engine, diesel, 11.1l DO/DP 0680 PowerPlus Vehicle: Beaver, Leopard, Royal, Tiger suitable for chrome liner	6	127.00	3.54 3.54 6.35 6.35	T IW P T IW P G P GSF P	LG 1 LG 1 LG 1 LG 1	11712701-00	STD
In-line engine, diesel, 11.1l Vehicle: SWT 680	6	127.00	3.00 3.00 4.00	T CR M CR P DSF CR	KG 1 KG 1 KG 1	11712702-00	STD

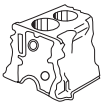

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BLMC Cont.							
In-line engine, diesel, 11.1l Vehicle: SW 680, SW 680T Turbo Diesel	6	127.00	3.54 3.54 6.35 6.35	T IW CR T IW P DSF CR G P	KG 1 LG 1 KG 1 LG 1	11712703-00	STD
BMW							
In-line engine, fuel, 1,6l W11B16A Vehicle: Mini Cooper, Works, Clubmann	4	77.00	1.20 1.20 2.50	R IF CR P NM P SLF CR	ST LG 1 ST	11907701-00 11907701-07	STD + 0.50
1.4l W10B16A Vehicle: Mini One	4						
In-line engine, fuel, 1,6l N14B16 Vehicle: Mini Cooper S	4	77.00	1.20 1.50 2.00	R IF CR P NM P SLF CR	ST LG 1 ST	11907702-00 11907702-06 11907702-07	STD + 0.40 + 0.50
In-line engine, diesel, 3,0l N57D30A Vehicle: 3,4,5,6,7 Series, X3,4,5,6	6	78.00	1.75 1.75 2.00	R CR M IFU P DSFST CR	KG 1 LG 1 ST	11907801-00	STD
In-line engine, fuel, 2.0l M 20 B 20 K, L, M, V, 1.Z 7 Vehicle: 320 i, 520 i	6	80.00	1.50 2.00 3.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	11908000-00 11908000-07	STD + 0.50
2.3l M 20 B 23 E Vehicle: 323 i	6						
In-line engine, fuel, 2.0l M 50 B 20 Vehicle: 520 i	6	80.00	1.50 1.75 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	11908001-00 11908001-07	STD + 0.50
In-line engine, diesel, 2.4l M 21 D 24 W, WA Vehicle: 324 d/td, 524 d/td	6	80.00	2.50 2.00 3.50	T CR M IFU P DSF CR	KG 1 LG 1 KG 1	11908002-00 11908002-07	STD + 0.50



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BMW Cont.							
In-line engine, diesel, 2.5l M51D25WA Vehicle: 525 TD	6	80.00	3.00	T CR	KG 1	11908003-00 11908003-07	STD + 0.50
			1.75	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l M 20 B20L Vehicle: 320 i	6	80.00	1.50	R CR	KG 1	11908004-00 11908004-07	STD + 0.50
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l M52D20, M50B20TÜ1 Vehicle: 320i,320i Coupe,520i	6	80.00	1.50	R CR	KG 1	11908005-00 11908005-07	STD + 0.50
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 2.2l M 54B 22 Vehicle: 3.20Ý 5.20Ý	6	80.00	1.20	R CR	ST	11908006-00 11908006-07	STD + 0.50
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 2.5l N52, B25A Vehicle: X3, Z4, 5.23i	6	82.00	1.20	R CR	ST	11908201-00	STD
			1.50	M P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.6l Vehicle: 1600/1800,1800 ti	4	84.00	2.00	B CR	KG 1	11908401-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l M 10 B 16 V Vehicle: 315, 1502, 1600	4	84.00	1.75	R IF CR	KG 1	11908402-00 11908402-07	STD + 0.50
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.7l M 20 B 27 ME, ME.E Vehicle: 528 e, 325 e	6	84.00	1.50	R CR	KG 1	11908403-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BMW Cont.							
In-line engine, fuel, 1.6l M 40 B 16 ME, E30 Vehicle: 316 i	4	84.00	1.50	R CR	KG 1	11908404-00 11908404-07	STD + 0.50
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
1.8l M 40 B 18 ME Vehicle: 318 i, 518 i Exp.	4						
2.5l M 20 B 25 M Z 7, E 8, ME M 50 B 25 M Vehicle: 325 i, Z 1, 525 i/ix	6						
2.7l M 20 B 27 M 1 Z 7 Vehicle: 325 e, 525 e, 325 (USA)	6						
In-line engine, fuel, 3.0l M 60 B 30 Vehicle: 530 i, 730 i	V8	84.00	1.50	R CR	KG 1	11908405-00	STD
			1.50	M IF P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.8l M 40 B 18 Vehicle: 318 i, 518 i	4	84.00	1.75	B CR	KG 1	11908406-00 11908406-07	STD + 0.50
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.8l M 43 B 18, M 42 B 18 Vehicle: 318i, 518i	4	84.00	1.50	R CR	KG 1	11908407-00 11908407-05 11908407-07 11908407-11	STD + 0.25 + 0.50 + 1.00
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
2.8l M 52 B 28 GG Vehicle: 328i	6						
In-line engine, diesel, 2.0l M47D20 Vehicle: 320 D, 520 D	4	84.00	3.00	T CR	KG 1	11908408-00 11908408-05 11908408-07	STD + 0.25 + 0.50
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
2.5l M47D30 Vehicle : 530 D, 730 D	6						
4.0l M67D40 Vehicle : 740d V8	8						

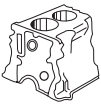

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BMW Cont.							
In-line engine, fuel, 3.0l M 54 B 30 Vehicle: 330 i, 530 i, X5, 730 i, Z3	6	84.00	1.20	R CR P	ST	11908409-00 11908409-07	STD + 0.50
			1.50	M IF P	LG 1		
			2.00	SLF CR	ST		
In-line engine, diesel, 3.0l M57 D 30 TUE Vehicle: 330 d + 530 d	6	84.00	2.50	R CR	KG 1	11908410-00	STD
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.0l M 47 N 204 D5 Vehicle: 320 d, 520 d	4	84.00	3.00	T CR	KG 1	11908411-00 11908411-07	STD + 0.50
			2.00	NM P	KG 2		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.0l M 57 D 20, 25, 30, 44 Vehicle: 118d, 120d, 318d, 325d, 330d, 335d, 520d, 525d, 530d, 535d, 730d, 745d	4	84.00	2.50	B CR	KG 1	11908412-00 11908412-07	STD + 0.50
			2.00	NM P	LG 1		
			2.00	DSFST CR	ST		
2.5l, 3.0l M 57 D 20, 25, 30, 44 Vehicle: 118d, 120d, 318d, 325d, 330d, 335d, 520d, 525d, 530d, 535d, 730d, 745d	6	84.00				11908412-00 11908412-07	STD + 0.50
4.4l M 57 D 20, 25, 30, 44 Vehicle: 118d, 120d, 318d, 325d, 330d, 335d, 520d, 525d, 530d, 535d, 730d, 745d	8	84.00				11908412-00 11908412-07	STD + 0.50
In-line engine, diesel, 2.0l N47D20A Vehicle: 118d, 120d, 316d, 320d, X1, X3	4	84.00	1.75	B CR	KG 1	11908413-00 11908413-05 11908413-07	STD + 0.25 + 0.50
			1.75	NM P	KG 2		
			2.00	DSFST CR	ST		
In-line engine, fuel, 3.0l N54 B30A Vehicle: 125 i, 135 i, 330 i, 335 i, 535 i, 535 xi, 545 i	6	84.00	1.50	R CR	KG 1	11908414-00	STD
			1.50	NM P	LG 1		
			2.50	SLF CR	ST		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BMW Cont.							
In-line engine, fuel, 2.0l N40B16A, N42B18A, N45B16A, N46B20A Vehicle: 125 i, 220 i, 228 i, 320 i, 328 i, 420 i, 520 i, x Drive	4	84.00	1.20	R CR P	ST	11908415-00 11908415-07	STD + 0.50
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, diesel, 1.5l B37 D15 A Vehicle: 114,116, X2,	3	84.00	1.50	R CR	KG 1	11908416-00 11908416-07	STD + 0.50
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.0l B47 D20 A Vehicle: 118,120, 220, 316, 318, 320, 420, 425, 518, 520, 525	4	84.00	1.75	R IF CR	KG 1	11908417-00	STD
			1.75	M IFUP	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 1.9l M43 B19, M44 B19, M73 B54 Vehicle: 318 i, 318 ci, 318 Ti, Z 3 1.9	4	85.00	1.20	R IF CR	ST	11908501-00 11908501-07	STD + 0.50
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 3.0l N52B30 Vehicle: 1, 3, 5, 7, X1, 3, 5, Z4	6	85.00	1.20	R IF CR P	ST	11908502-00	STD
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 2.5l M 30 B 25 Vehicle: 2500, 525 i, 728 i	6	86.00	1.75	R IF CR	KG 1	11908600-00 11908600-07	STD + 0.50
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
2.8l M 30 B 28 L 128 Vehicle: 2800, 528, 728	6	86.00	1.75	R IF CR	KG 1	11908600-00 11908600-07	STD + 0.50
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BMW Cont.							
In-line engine, fuel, 1.8l M 10 B 18 K, V, LE, LU Vehicle: 316 i, 318 i, 320 i, 518 i/E	4	89.00	1.75	R IF CR	KG 1	11908901-00	STD
			2.00	NM P	LG 1	11908901-07	+ 0.50
			4.00	DSF CR P	KG 1	11908901-11	+ 1.00
3.2l M 30 B 32 LU/M Vehicle: 533 i, 633 Csi, 728 i, 732 i	6						
In-line engine, fuel, 3.0l M30 B 30M.E7 Vehicle: 530i, 730i	6	89.00	1.50	R CR P	KG 1	11908902-00	STD
			2.00	NM P	LG 1		
			3.50	DSF CR	KG 1		
3.2l M 30 B 32 A Vehicle: 745i	6						
In-line engine, fuel, 4.0l M60B40 Vehicle: 540i,740i,840ci	8	89.00	1.50	R CR	KG 1	11908903-00	STD
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 4.4l N63 B44 A Vehicle: 5, 6, 7 Series, X5, 6	8	89.00	1.50	R CR	KG 1	11908904-00	STD
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 3.4l M 30 B 34 MA, ME, ME 7, M.45 Vehicle: 535 i, 635 Csi, 735 i	6	92.00	1.50	R CR	KG 1	11909201-00	STD
			2.00	NM P	LG 1	11909201-07	+ 0.50
			3.50	DSF CR	KG 1		
In-line engine, fuel, 4,4l M62 B44 LEV Vehicle: 540 i, 740 i, 840 i, X5 4.4i	8	92.00	1.50	R CR	KG 1	11909202-00	STD
			1.50	NM P	LG 1	11909202-05	+ 0.25
			2.00	SLF CR	ST	11909202-07	+ 0.50
						11909202-11	+ 1.00
In-line engine, fuel, 5,0l Vehicle: M5, M6	10	92.00	1.20	R CR	ST	11909203-00	STD
			1.50	NM P	LG 1	11909203-05	+ 0.25
			2.00	SLF CR	ST	11909203-07	+ 0.50
						11909203-11	+ 1.00

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
BMW Cont.							
In-line engine, fuel, 3.5l M 30 B 35 L Vehicle: 635 Csi, 535 i, 735 i	6	93.40	1.75	R CR	KG 1	11909301-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.3l Vehicle: M 3 3.5l M 88/3 Vehicle: M 635 Csi, M5	4	93.40	1.50	R CR	KG 1	11909302-00	STD
			1.50	R CR	KG 1		
	3.00	DSF CR	KG 1				
In-line engine, fuel, M 30 B 34/35 Vehicle: 535 i,635 Csi,735 i	6	93.40	1.50	R CR	KG 1	11909303-00	STD
			2.00	R CR	KG 1		
			3.50	DSF CR	KG 1		
BUKH							
In-line engine, diesel, 10.4l G 105-2G 105-3G 105 Vehicle: Traktor D302 , 403 , D452	3	105.00	2.50	R CR	KG 1	12110500-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			6.00	G P	LG 1		
			6.00	G P	LG 1		
CATERPILLAR							
In-line engine, diesel, 2.2l 3024 3024C C2.2 D25 Vehicle: 216B 226B 226B3 216B3 232B 232D3 242B 247B 247B3 257B Minilift (OEM 485-0005)	4	84.00	2.00	HK CR P	KG 1	12208401-00	STD
			1.50	R IW CR P	KG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, C3.4, 3044C/T Vehicle: 236B2, 236B3, 242B3, 246C, 252B, 252B2, 259B3, 279C2, 289C2, 906H, 907H		94.00	2.50	HK CR	KG 1	12209401-00	STD
			2.00	R IW CR P	KG 1		
			4.00	DSFST CR	ST		
In-line engine, diesel, S6KT (517538)	1	102.00	3.00	HK CR P	KG 1	12210201-00	STD
			2.00	HK CR	KG 1		
			4.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, 325 - 325L - 325LN - 938F 7E5213	6	105.00	3.00	T CR	KG 1	12210501-00	STD + 0.50
			3.00	TM IW CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 3054 C, C4.4, C4.4 T, C4.4 TA (276-7476, 360-2028)	6	105.00	3.00	T CR	KG 1	12210502-00	STD
			2.50	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, D3126		110.00	3.50	T CR	KG 1	12211001-00	STD
			3.00	M IWU P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 5.8l D 330 Vehicle: D 4, Truck 1670 Tractor, 922, 944, 950, 955 966, Pipe Layer Traxcavator 112 Grader 8.7l D 333 18:1 turbocharged, charge intercooling, Vehicle: D 5, D 6, D 7 F Tractor, 966, 977 Wheel Loader Traxcavator, 12, 14 120 Motor Grader 561 Pipe Layer	4	114.30	3.17	R CR	KG 1	12211401-00	STD
			2.38	R IW CR	KG 1		
			5.54	DSF CR	KG 1		
In-line engine, diesel, 7E4729		114.30	3.17	T CR	KG 1	12211402-00	STD
			3.17	TM IWU CR	KG 1		
			2.78	DSF CR	KG 1		
In-line engine, diesel, 1160 3160 UP, 68P1 UP, 3208 Vehicle: Scaper, Two Wheel Loader 613, Escavator 225 2W8265-R3	8	114.30	2.38	R IF CR P	KG 1	12211403-00	STD + 0,50
			2.38	M IF P	LG 1		
			4.76	DSF CR P	KG 1		
In-line engine, diesel, 3208 29A1 UP, 90N1 UP, 75V4002 UP, 32Y1 UP, 1Z1 UP, 3Z1 UP 2W8265	8	114.30	3.17	R IW CR	KG 1	12211404-00	STD + 0,50
			2.78	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

CATERPILLAR Cont.



3406E/C15 176549, 177749, 1899771, S41927	6	137.16	3.96 3.00 4.00	T IW CR P M IW CR DSF CR P	KG 1 KG 1 KG 1	12213702-00	STD
In-line engine, diesel, 8N5760	1	146.06	3.97 3.97 6.35	T CR TM IW CR S CR	KG 1 KG 1 KG 1	12214601-00	STD
D353D / D353E / D379 / D398 / D399 / G353 / G379 / G 398 / G399 1W5105	6 8 12 16	158,75	3.16 2.38 6.33	R CR M IW CR DSF CR	KG 1 KG 1 KG 1	12215801-00	STD
G3508, G3512, G3516 7E2899, 7W0727		170.00	3.50 3.50 5.00	R CR M IW CR DSF CR	KG 1 KG 1 KG 1	12217001-00	STD



CHERRY

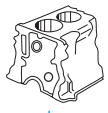

In-line engine, fuel, LIFAN	4	79.50	1.20 1.20 3.00	R CR NM P SLF CR	ST LG 1 ST	12307901-00	STD
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
CHRYSLER



In-line engine, diesel, 2.5l, EDK, R25 Vehicle: VOYAGER 2.5D VOYAGER IV 2.5 CRD	4	92.00	2.50 1.50 2.00	T CR NM P DSFST CR	KG 1 LG 1 ST	12609201-00	STD
In-line engine, fuel, 3.3l, Vehicle: Voyager	6	93.00	1.50 1.50 3.00	R IF CR P NM P SLF CR	KG 1 LG 1 ST	12609301-00	STD

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CITROEN							
In-line engine, fuel, 0.5l 2CV AZ, AZU, AM, AYA, AZAM Vehicle: Mota 79/O	2	66.00	2.00 2.00 4.50	R CR NM P D P	KG 1 LG 1 LG 1	12506601-00	STD
In-line engine, fuel, 435 cm ³ A79/1 Vehicle: AZU 250,250 GA Fourgonnetes, 2CV AZU, 2CV AZL4, DYANE4	2	68.50	1.75 2.00 4.00	R IF CR N M P DSF CR	KG 1 LG 1 KG 1	12506801-00	STD
In-line engine, fuel, 1.1l TU 1/H1A Vehicle: BX 11, AX 11, RE, TEG, Enterprise, C15, ZX Reflex	4	72.00	1.50 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	12507201-00	STD
In-line engine, diesel, 1.4l DV4 TED Vehicle: C3 HDi 16v, C2+, Xsara	4	73.70	2.50 1.95 2.50	T CR M IFU P DSFST CR	KG 1 LG 1 ST	12507301-00 12507301-07	STD + 0.50
Opposed-piston engine, fuel, 602 cm ³ , M 28, M 28-1, AK 2, AM, 2M A06/635, AY Vehicle: AMI 6 type AM 2, AMI 8 type AM 3, 2 CV 6, Dyane, Mehari, FAF AK 400, Fourgonette, Acadiane	2	74.00	1.75 2.00 3.50	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	12507401-00 12507401-07	STD + 0.50
1.1l G 11/631 Vehicle: GSA, GSX, Olcit, Axel	4						
In-line engine, fuel, 602 cm ³ R6/627 Vehicle: 2 CV 6, AMI 6 1.0l Vehicle: AMI Super, GSX	2 4	74.00	1.50 2.00 4.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	12507402-00	STD

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CITROEN Cont.							
In-line engine, fuel, 602 cm ³ 22/25/28 CV Vehicle: 3CV Ami 6 Berline,3CV AMi 6, Dyane 6 AYA3	2	74.00	2.00 2.00 4.50	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	12507403-00	STD
602 cm ³ A0 6/635 Vehicle: Ami 6 Break, Type AM, AMB, Dyane 6, AYA3, Mehari AY, CA 4*2	2						
In-line engine, fuel, 1.1 l E1A Vehicle: C15	4	74.00	1.75 2.00 4.00	R IF CR NM P DSF P	KG 1 LG 1 LG 1	12507404-00	STD
In-line engine, diesel, 1.4l TUD 3 Vehicle: AX	4	75.00	2.25 1.75 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	12507501-00	STD
In-line engine, fuel, 1.4l TU 3 A, TU 3 M, CZ/M /Z/2 K, K 2 D Vehicle: AX, BX, ZX, Berlingo	4	75.00	1.75 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	12507502-00	STD
In-line engine, diesel, 1.6l 9HD (DV6C), 9HH (DV6DUM), 9HM (DV6UC), 9HL (DV6C), 9HR (DV6C), 9HP (DV6D TED) Vehicle: C3 Picasso, Jumpy, Berlingo Kasten, C4, DS3, DS4, DS5	4	75.00	2.50 1.95 2.00	T CR NM P DSFST CR	KG 1 LG 1 ST	12507503-00 12507503-07	STD + 0.50
Opposed-piston engine, fuel, 1.2l G 12/611-612 Vehicle: GS	4	77.00	1.75 2.00 4.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	12507700-00	STD

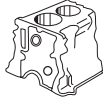

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CITROEN Cont.							
In-line engine, diesel, 1.5l TUD 5,ATMO Vehicle: AX,Saxo,Xsara	4	77.00	2.00	R CR	KG 1	12507701-00 12507701-06	STD + 0.40
			1.75	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 652 ccm R/V 06/644-M29 Vehicle: Visa, LNA	2	77.00	1.50	R CR	KG 1	12507702-00	STD
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l 5FK, 5FU Vehicle: Berlingo Vti, DS3 Racing	4	77.00	1.20	R IF CR P	ST	12507703-00	STD
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.9l 11CV Vehicle: H78,DS19,H 1200 KG,HW 1600,ID 19 F,HY 78	4	78.00	2.00	R CR	KG 1	12507801-00	STD
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, fuel, 1.9l TA 11CV,15CV,11 D Vehicle: HY78,DS19,H 1600 E,HW 1600,ID 19 F,HY 78	4	78.00	2.50	R CR P	KG 1	12507802-00	STD
			2.50	NM P	LG 1		
			4.00	D P	LG 1		
			4.00	D P	LG 1		
In-line engine, fuel, 1.9l M 78, DS 19, ID19	4	78.00	2.50	R CR P	KG 1	12507803-00	STD
			2.50	NM P	LG 1		
			4.50	DSF CR	KG 1		
In-line engine, fuel, 1.6l TU5JP Vehicle: Saxo 1600	4	78.50	1.50	R CR	KG 1	12507805-00 12507805-06	STD + 0.40
			1.50	NM P	LG 1		
			3.00	DSF CR	KG 1		
Opposed-piston engine, fuel, 1.3l G 13/615, T 13/653 Vehicle: GSA, Axel 12	4	79.40	1.50	R CR	KG 1	12507900-00	STD
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l 1.9D - WJZ/DW8 Vehicle: 306 BREAK-XSARA	4	82.20	2.00	R CR	KG 1	12508201-00 12508201-06 12508201-07 12508201-08	STD + 0.40 + 0.50 + 0.60
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CITROEN Cont.							
In-line engine, fuel, 1.8l EW7JU Vehicle: Xsara, Picasso 1.8	4	82.70	1.20 1.50 2.00	R CR NM P SLF CR	ST LG 1 ST	12508202-00	STD
In-line engine, diesel, 1.9l XUD 9 TE Vehicle: BX,ZX,Xantia,Jumper, ZX,Evasion,Xsara	4	83.00	3.50 2.00 3.00	T CR M P DSF CR	KG 1 LG 1 KG 1	12508300-00 12508300-07	STD + 0.50
1.9l XUD 9 TF Vehicle: Jumpy	4						
In-line engine, diesel, 1.9l XUD 9, XUD 9 A Vehicle: BX 19D/TRD ZX, C 25 Xantia, Expert, Jumpy, Jumper Berlingo, Xsara	4	83.00	2.00 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	12508301-00 12508301-07	STD + 0.50
In-line engine, fuel, 1.6l 171 BZ, XU 5 S XU 52 C Vehicle: BX 16, BX 15	4	83.00	1.75 1.75 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	12508302-00 12508302-07	STD + 0.50
In-line engine, fuel, 1.8l XU7JP/Z Vehicle : ZX, Xantia, Berlingo	4	83.00	1.50 1.50 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	12508303-00	STD
In-line engine, diesel, 1.9l XUD 9 TE/TF Vehicle: 4005,306,309,406,806, Boxer,Expert	4	83.00	3.00 2.00 3.00	T CR M P DSF CR	KG 1 LG 1 KG 1	12508304-00 12508304-07	STD + 0.50
In-line engine, diesel, 2.2l 4HN, 4HT Vehicle: C-CROSSER, CITROEN C5	4	85.00	3.50 2.00 3.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	12508501-00 12508501-07 12508501-08	STD + 0.50 + 0.60

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CITROEN Cont.							
In-line engine, diesel, 2.2l 4HL (DW12C) 150 Kw 204 Ps, 4HN (DW12MTED4) 115 Kw 156 Ps Vehicle: C5 III, C Crossser	4	85.00	2.50	T CR P	KG 1	12508502-00 12508502-07	STD + 0.50
			2.00	M IFU P	LG 1		
			2.00	DSFST CR	ST		
2.0l AHY (DW10CE), AHZ (DW10CD), DW10CB Vehicle: Jumpy, DS5	4	85.00	2.00	HK CR	KG 1	12508503-00 12508503-06 12508503-07	STD + 0.40 + 0.50
			2.00	M IFU P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 2.0l M 20-615/30 N Vehicle: CX 2000,Break,Normale,Super, Pallas,Confort	4	86.00	1.75	R IF CR	KG 1	12508600-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l X17B-XU12J2C/U-XM Vehicle: ZX VOLNANE-XANTIA, XSARA	4	86.00	1.50	R CR	KG 1	12508601-00	STD
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l 829.A5, Vehicle: CX 20 RE/TRE	4	88.00	1.75	R IF CR	KG 1	12508800-00	STD
			2.00	M IF P	LG 1		
			4.00	DSF CR	KG 1		
2.2l J 6 TA Vehicle: CX 22, TRS	4						
In-line engine, diesel, 2.2l B22.615 Vehicle: C32,C35	4	90.00	2.00	R CR	KG 1	12509000-00	STD
			2.00	M IF P	LG 1		
			4.00	DSF CR	KG 1		
2.2l M22/621 Vehicle: CX2200 D,Normale, Super,Break Super	4						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CITROEN Cont.							
In-line engine, fuel, 2.2l M 22-617/33 N Vehicle: CX 2000	4	90.00	2.00 2.00 5.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	12509001-00	STD
In-line engine, diesel, 2.5l M25/629/660 Vehicle: CX2500 D,Break Evasion,CX 25 Familiare,Break,CX25 D,Super	4	93.00	2.00 2.00 4.00	R CR M P DSF CR	KG 1 LG 1 KG 1	12509300-00	STD
In-line engine, fuel, 2.3l Vehicle: DS 23, DS 23 inj., CX 2400, Prestige, Super, Pallas, Break, Familiare, Reflex	4	93.50	2.00 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	12509301-00	STD
COMPRESSOR - AIR							
Compressor,Air Alkin		36.00	2.00 2.00 2.00 2.00	M P M P NM P NM P	LG 1 LG 1 LG 1 LG 1	25003601-00	STD
Compressor,Air Lupomat		40.00	2.50 2.50 2.50	M P M P NM P	LG 1 LG 1 LG 1	25004001-00	STD
Compressor,Air Lupomat		40.00	2.00 2.00 2.00 2.00	M P M P NM P NM P	LG 1 LG 1 LG 1 LG 1	25004002-00	STD
Compressor, Air		48.00	2.50 2.50 2.50 2.50	M P M P NM P NM P	LG 1 LG 1 LG 1 LG 1	25004801-00	STD
Compressor,Air Dalgakiran		52.00	2.50 2.50 2.50 2.50 4.00	NM P NM P NM P NM P G P	LG 1 LG 1 LG 1 LG 1 LG 1	25005201-00	STD
Compressor,Air Lupomat		60.00	2.50 2.50 2.50 3.50	M P NM P NM P G P	LG 1 LG 1 LG 1 LG 1	25006004-00	STD

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
Compressor, Air Sarmak	60.00	2.50	M P	LG 1	25006005-00	STD	
			NM P	LG 1			
			G P	LG 1			
Compressor, Air Tensa	60.33	2.38	M IF P	LG 1	25006006-00	STD	
		2.38	M IF P	LG 1			
		4.76	G P	LG 1			
Compressor, Air Dalgakiran	65.00	2.50	NM P	LG 1	25006506-00	STD	
		2.50	NM P	LG 1			
		2.50	NM P	LG 1			
		5.00	G P	LG 1			
Compressor, Air Lupomat	70.00	3.00	M P	LG 1	25007003-00 25007003-11	STD + 1.00	
		3.00	NM P	LG 1			
		3.00	NM P	LG 1			
		4.00	G P	LG 1			
Compressor, Air Sarmak	70.00	3.00	M P	LG 1	25007005-00	STD	
		3.00	NM P	LG 1			
		4.00	G P	LG 1			
Compressor, Air LKD 41-300 , LKD 51-300	1 70.00	3.00	NM P	LG 1	25007006-00 25007006-07 25007006-11	STD +0.50 +1.00	
		3.00	NM P	LG 1			
		3.00	NM P	LG 1			
		4.00	G P	LG 1			
Compressor, Air Aras	73.00	2.50	M P	LG 1	25007300-00	STD	
		2.50	NM P	LG 1			
		4.00	G P	LG 1			
Compressor, Air Dalgakiran	75.00	3.00	NM P	LG 1	25007507-00 25007507-07 25007507-11	STD +0.50 +1.00	
		3.00	NM P	LG 1			
		3.00	NM P	LG 1			
		5.00	G P	LG 1			
Compressor, Air Alkyn	76.20	4.76	M P	LG 1	25007601-00	STD	
		4.76	M P	LG 1			
		4.76	G P	LG 1			
		4.76	G P	LG 1			
Compressor, 8210.42 Iveco	1 82.00	2.50	NM P	LG 1	25008204-00 25008204-05 25008204-07 25008204-09 25008204-11	STD + 0.25 + 0.50 + 0.75 + 1.00	
		2.50	NM P	LG 1			
		4.00	GSF P	LG 1			
Compressor, Air Bosan	85.00	3.00	R IF P	LG 1	25008505-00	STD	
		3.00	NM P	LG 1			
		3.00	NM P	LG 1			
		5.50	GSF P	LG 1			
Compressor, Air Lupomat	90.00	3.00	M P	LG 1	25009003-00 25009003-11	STD + 1.00	
		3.00	M P	LG 1			
		3.00	NM P	LG 1			
		4.00	G P	LG 1			

Make - Engine - Model			Ring type	Material	Powerseal No	Size
	No					
Compressor, Air Aydýn Trafo	90.00	3.00	M P	LG 1	25009004-00	STD
		3.00	NM P	LG 1		
		4.00	G P	LG 1		
Compressor, Air Alkýn	95.00	3.00	M P	LG 1	25009501-00	STD
		3.00	M P	LG 1		
		3.00	NM P	LG 1		
		4.00	G P	LG 1		
Compressor, Air DH16	107.95	4.76	M P	LG 1	25010701-00	STD
		4.76	M P	LG 1		
		6.33	G P	LG 1		
		6.33	G P	LG 1		
Compressor, Air Lupomat	110.00	4.00	M P	LG 1	25011002-00 25011002-11	STD + 1.00
		4.00	M P	LG 1		
		4.00	NM P	LG 1		
		4.00	NM P	LG 1		
		5.00	G P	LG 1		
Compressor, Air, Westinghouse Aydýn Trafo	110.00	2.50	M P	LG 1	25011003-00	STD
		2.50	NM P	LG 1		
		2.50	NM P	LG 1		
		5.00	G P	LG 1		
Compressor, Air Lupomat	120.00	4.00	M P	LG 1	25012001-00	STD
		4.00	NM P	LG 1		
		5.00	G P	LG 1		
Compressor, Air Dalgakiran	125.00	3.00	NM P	LG 1	25012501-00	STD
		3.00	NM P	LG 1		
		3.00	NM P	LG 1		
		6.00	G P	LG 1		
Compressor, Air Lupomat	125.00	3.00	NM P	LG 1	25012502-00	STD
		3.00	NM P	LG 1		
		6.00	G P	LG 1		
Compressor, Air V V450 HP	125.00	4.00	M P	LG 1	25012503-00	STD
		4.00	NM P	LG 1		
		6.00	G P	LG 1		
		6.00	G P	LG 1		
Compressor, Air Alkýn	127.00	6.33	M P	LG 1	25012701-00	STD
		6.33	M P	LG 1		
		6.33	GSF P	LG 1		
		6.33	G P	LG 1		

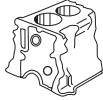

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

COMPRESSOR - AIR Cont.

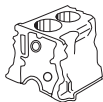

Compressor, Air MYCOM - B	130.00	4.00	R CR	KG 1	25013001-00	STD
		4.00	M P	LG 1		
		4.00	G P	LG 1		
		6.00	D P	LG 1		
Compressor, Air V V450 LP	140.00	4.00	M P	KG 1	25014001-00	STD
		4.00	NM P	LG 1		
		6.00	G P	LG 1		
		6.00	G P	LG 1		
Compressor, Air	160.00	4.00	R CR	KG 1	25016001-00	STD
		4.00	M P	LG 1		
		4.00	NM P	LG 1		
		8.00	S P	LG 1		
		8.00	S P	LG 1		
Compressor, Air Lupomat	160.00	3.00	NM P	LG 1	25016002-00 25016002-11	STD + 1.00
		3.00	NM P	LG 1		
		6.00	G P	LG 1		
Compressor, Air Sarmak	180.00	4.00	M P	LG 1	25018001-00	STD
		4.00	NM P	LG 1		
		4.00	NM P	LG 1		
		6.00	G P	LG 1		
Compressor, Air	190.00	3.00	M P	LG 1	25019001-00	STD
		3.00	M P	LG 1		
		5.00	S P	LG 1		
		5.00	S P	LG 1		
Compressor, Air	230.00	3.50	M P	LG 1	25023001-00	STD
		3.50	M P	LG 1		
		7.00	G P	LG 1		

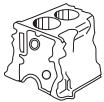

COMPRESSOR - BRAKE

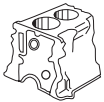

Compressor, 1, IBP, N, U, W1,WM, WMB, 5, 6 Series	50.80	2.38	M I F P	LG 1	25005001-00	STD
		2.38	M I F P	LG 1		
		2.38	M I F P	LG 1		
		4.76	D P	LG 1		
Compressor, Westinghouse Perkins,Dodge	2 52.38	3.17	M I F P	LG 1	25005200-00 25005200-05 25005200-07 25005200-09 25005200-11	STD + 0.25 + 0.50 + 0.75 + 1.00
		3.17	M I F P	LG 1		
		3.17	M I F P	LG 1		
		3.17	M I F P	LG 1		
		3.17	M I F P	LG 1		
Compressor, Westinghouse	52.38	3.17	M I F P	LG 1	25005202-00	STD
		3.17	M I F P	LG 1		
		3.17	G P	LG 1		

























Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
COMPRESSOR - BRAKE Cont.							
Compressor, IHC	1	55.00	2.50	M P	LG 1	25005501-00	STD
			2.50	NM P	LG 1		
			4.00	S P	LG 1		
Compressor, BLMC		57.15	1.99	M IW P	LG 1	25005701-00	STD
			1.99	M IW P	LG 1		
			1.99	M IW P	LG 1		
			1.99	M IW P	LG 1		
			3.97	D P	LG 1		
Compressor, Westinghouse 187 P 4, 79 P 4	1	60.00	2.50	NM P	LG 1	25006001-00 25006001-07	STD + 0.50
			2.50	NM P	LG 1		
			4.00	G P	LG 1		
Compressor, Bosch SVKB 38 G Z 2	1	60.00	2.50	NM P	LG 1	25006002-00	STD
			2.50	NM P	LG 1		
			2.50	NM P	LG 1		
			4.00	G P	LG 1		
Compressor, Westinghouse Fiat 626-640	1	60.00	2.50	M P	LG 1	25006003-00	STD
			2.50	NM P	LG 1		
			4.50	G P	LG 1		
Compressor, OM 457 Euro 4/5 , LP 490 Vehicle: Axor 1836LS, Axor 1840LS, Axor 2640CL, Axor 3240C, Axor 3340K, Axor 4140B, Capacity, Conecto, Turismo 15RHD, Travego 15SHD,	2	60.00	2.00	M P	LG 1	25006007-00	STD
			2.00	NM P	LG 1		
			3.00	GSF P	LG 1		
Compressor, Kamaz		60.00	2.50	M IF P	LG 1	25006008-00	STD
			2.50	NM P	LG 1		
			4.76	G P	LG 1		
Compressor, AVIA		60.00	2.00	M P	LG 1	25006009-00	STD
			2.00	NM P	LG 1		
			4.50	G P	LG 1		
Compressor, Westinghouse, Luftpresse		60.00	2.50	NM P	LG 1	25006010-00	STD
			2.50	NM P	LG 1		
			4.00	GSF P	LG 1		

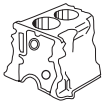

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
COMPRESSOR - BRAKE Cont.							
Compressor, Westinghouse , TU-FL0500, VOLVO TD121, MB, DODGE, FORD	2	63.50	2.38	M I F P	LG 1	25006301-00	STD
			2.38	M I F P	LG 1	25006301-05	+ 0.25
			2.38	M I F P	LG 1	25006301-07	+ 0.50
			2.38	M I F P	LG 1	25006301-11	+ 1.00
			2.38	D P	LG 1		
Compressor, Westinghouse, E11 TU-FL0500, VOLVO TD50/60/70100/101/120/121	2	63.50	2.38	M I F P	LG 1	25006302-00	STD
			2.38	M I F P	LG 1	25006302-05	+ 0.25
			3.16	M I F P	LG 1	25006302-07	+ 0.50
			2.38	M I F P	LG 1		
			3.16	D P	LG 1		
Compressor, Westinghouse, E11 TU-FL0500, VOLVO TD50/60/70100/101/120/121	2	63.50	2.38	M I F P	LG 1	25006303-00	STD
			2.38	M I F P	LG 1	25006303-05	+ 0.25
			2.38	M I F P	LG 1	25006303-07	+ 0.50
			3.16	D P	LG 1	25006303-09	+ 0.75
			3.16	D P	LG 1		
Compressor, Westinghouse TU-FLO 500	2	63.50	2.38	M I F P	LG 1	25006305-00	STD
			2.38	M I F P	LG 1	25006305-05	+ 0.25
			2.38	M I F P	LG 1	25006305-07	+ 0.50
			3.16	M I F P	LG 1	25006305-09	+ 0.75
			3.16	M I F P	LG 1	25006305-11	+ 1.00
Compressor, Marelli Fiat 643 OM 150	1	65.00	2.00	NM P	LG 1	25006501-00	STD
			2.00	NM P	LG 1	25006501-07	+ 0.50
			4.00	GSF P	LG 1	25006501-09	+ 0.75
			4.00	GSF P	LG 1	25006501-11	+ 1.00
Compressor, Westinghouse	1	65.00	2.50	M P	LG 1	25006502-00	STD
			2.50	NM P	LG 1	25006502-07	+ 0.50
			4.00	GSF P	LG 1		
			4.00	G P	LG 1		
Compressor, Westinghouse Fiat 643 OM 150	1	65.00	2.00	NM P	LG 1	25006503-00	STD
			2.00	NM P	LG 1		
			4.00	GSF P	LG 1		
			4.00	GSF P	LG 1		
Compressor, Westinghouse	1	65.00	2.50	M P	LG 1	25006504-00	STD
			2.50	NM P	LG 1		
			4.00	G P	LG 1		
Compressor, RVI D 65 RVI SC	2	65.00	2.50	M P	LG 1	25006505-00	STD
			2.50	NM P	LG 1	25006505-05	+ 0.25
			2.50	NM P	LG 1	25006505-07	+ 0.50
			4.00	GSF P	LG 1		
Compressor, Westinghouse		65.00	2.50	NM P	LG 1	25006507-00	STD
			2.50	NM P	LG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size					
	No	Ø mm.										
COMPRESSOR - BRAKE Cont.												
Compressor, Caterpillar 8A2250	1	66.67	2.00	M I W P	LG 1	25006601-00	STD					
			2.00	M I W P	LG 1							
			2.00	M I W P	LG 1							
			2.00	M I W P	LG 1							
			4.00	DSF P	LG 1							
Compressor, Caterpillar 6N2109	66.67	2.38	M I F P	LG 1	25006602-00	STD						
		2.38	M I F P	LG 1								
		4.76	G P	LG 1	25006602-07	+ 0.50						
Compressor, 1201, 1211 Truck	66.67	2.00	M I W P	LG 1	25006603-00	STD						
		2.00	M I W P	LG 1								
		2.00	M I W P	LG 1								
		3.97	D P	LG 1								
Compressor, CAT 6N2109	66.67	2.38	M I F P	LG 1	25006604-00	STD						
		2.38	M I F P	LG 1								
		2.38	M I F P	LG 1	25006604-05	+ 0.25						
		4.76	G P	LG 1	25006604-07	+ 0.50						
		4.76	G P	LG 1	25006604-09	+ 0.75						
25006604-11	+ 1.00											
Compressor, Westinghouse Leyland, Hino, Tata, Cummins	66.68	2.00	NM P	LG 1	25006605-00	STD						
		2.00	NM P	LG 1								
		3.00	G P	LG 1	25006605-05	+ 0.25						
Compressor, 25006605-07	66.68	3.00	G P	LG 1	25006605-07	+ 0.50						
Compressor, 68.25	68.25	2.00	M P	LG 1	25006801-00	STD						
		2.00	NM P	LG 1								
		4.00	DSF P	LG 1								
Compressor, Westinghouse , TU-FL0700 Scania , Caterpillar	2	69.85	2.38	M I F P	LG 1	25006901-00	STD					
			2.38	M I F P	LG 1							
			2.38	M I F P	LG 1							
			2.38	M I F P	LG 1							
			4.76	DSF P	LG 1							
25006901-11	69.85	4.76	DSF P	LG 1	25006901-11	+ 1.00						
Compressor, Varga EL-1600	2	69.85	2.00	M P	LG 1	25006902-00	STD					
		2.00	M P	LG 1								
		4.76	DSF P	LG 1								
25006902-05	69.85	4.76	DSF P	LG 1	25006902-05	+ 0.25						
25006902-07					25006902-07	+ 0.50						
25006902-09					25006902-09	+ 0.75						
Compressor, Marelli,	1	70.00	2.00	M P	LG 1	25007001-00	STD					
			2.00	NM P	LG 1							
			4.00	GSF P	LG 1							
Compressor, Fiat 619, 673, 684, 690	1	70.00	4.00	GSF P	LG 1	25007001-07	+ 0.50					
25007001-11					25007001-11	+ 1.00						
Compressor, Caterpillar 7E8925		70.64	2.38	M I F P	LG 1	25007002-00	STD					
			2.38	M I F P	LG 1							
			2.38	NM P	LG 1							
			4.76	DSF P	LG 1							
			4.76	G P	LG 1							
25007002-05					25007002-05	+ 0.25						
25007002-07					25007002-07	+ 0.50						
25007002-09					25007002-09	+ 0.75						
25007002-11					25007002-11	+ 1.00						

Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
COMPRESSOR - BRAKE Cont.									
Compressor,		70.00	2.50 2.50 4.00	M P NM P G P	LG 1 LG 1 LG 1	25007004-00	STD		
Compressor, Westinghouse, Isuzu		70.00	1.50 1.50 3.00 3.00	NM P NM P DSF P DSF P	LG 1 LG 1 LG 1 LG 1			25007007-00 25007007-05 25007007-07 25007007-09	STD + 0.25 + 0.50 + 0.75
Compressor, Marelli		73.00	3.00 3.00 5.00 5.00	NM P NM P G P G P	LG 1 LG 1 LG 1 LG 1			25007301-00	STD
Compressor, Westinghouse 29 P, 30 P, 36 P, 37 P, 38 P, 40 P, 43 P, 46 P, 49 P, 50 P, 52 P,67 P, 129 P,136 P, 137 P, 236 P, 237 P,337 P OM 360, OM 352 A, DAF 825/1160	2	75.00	3.00 3.00 5.00	NM P NM P G P	LG 1 LG 1 LG 1	25007501-00 25007501-07 25007501-11	STD + 0.50 + 1.00		
Compressor, Westinghouse 15 W 37, WB15, WB31 Air-cooled Volvo TD100, Scania DS11, DS14	1	75.00	2.38 2.38 3.94	M P NM P G P	LG 1 LG 1 LG 1	25007502-00 25007502-05 25007502-07 25007502-09 25007502-11	STD + 0.25 + 0.50 + 0.75 + 1.00		
Compressor, Mercedes-Benz OM 366	1	75.00	2.50 2.50 2.50 4.00	NM P NM P NM P G P	LG 1 LG 1 LG 1 LG 1	25007503-00 25007503-05 25007503-07	STD + 0.25 + 0.50		
Compressor, Bosch, Pegaso Troner DAF , Volvo	1	75.00	2.00 2.00 4.00	NM P NM P GSF P	LG 1 LG 1 LG 1	25007504-00 25007504-07 25007504-09 25007504-11	STD + 0.50 + 0.75 + 1.00		
Compressor, Knorr, Hino, Nissan Mitsubishi, Toyota	1	75.00	3.00 3.00 3.00 4.00	NM P NM P NM P G P	LG 1 LG 1 LG 1 LG 1	25007505-00 25007505-07	STD + 0.50		
Compressor, Westinghouse	1	75.00	2.00 2.00 2.00 4.50	M P M P NM P D P	LG 1 LG 1 LG 1 LG 1	25007506-00	STD		

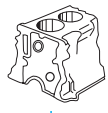

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
Compressor, 15.5 W 37, W 31, 15 W 37, WB 15, WB 31 Westinghouse Luftpresser, Scania, Luftpresser	2	75.00	2.38	M P	LG 1	25007508-00	STD
			2.38	NM P	LG 1	25007508-05	+ 0.25
			3.94	GSF P	LG 1	25007508-07	+ 0.50
						25007508-09	+ 0.75
						25007508-11	+ 1.00
Compressor, Westinghouse Cummins 16082	1	75.00	2.50	NM P	LG 1	25007509-00	STD
			2.50	NM P	LG 1		
			4.00	GSF P	LG 1		
Compressor, Mercedes-Benz OM 312/321/352/352 A/353.904	1	77.00	2.50	M IF P	LG 1	25007701-00	STD
			2.50	M IF P	LG 1	25007701-05	+ 0.25
			3.00	NM P	LG 1		
			4.00	D P	LG 1		
Compressor, Mercedes-Benz OM 352	1	77.00	2.50	M IF P	LG 1	25007702-00	STD
			2.50	NM P	LG 1		
			2.50	NM P	LG 1		
			4.00	D P	LG 1		
Compressor,		78.00	2.00	M P	LG 1	25007801-00	STD
			2.00	M P	LG 1	25007801-05	+ 0.25
			4.00	GSF P	LG 1	25007801-07	+ 0.50
						25007801-09	+ 0.75
						25007801-11	+ 1.00
Compressor, Knorr-Bremse, LP4845	1	78.00	2.50	M P	LG 1	25007802-00	STD
			2.50	NM P	LG 1	25007802-05	+ 0.25
			4.00	DSF P	LG 1	25007802-07	+ 0.50
						25007802-09	+ 0.75
						25007802-11	+ 1.00
Compressor, Knorr 78		78.00	2.50	M P	LG 1	25007803-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	GSF P	LG 1		
Compressor, Marelli, AC 67 A Fiat 170, 190	2	80.00	2.00	NM P	LG 1	25008000-00	STD
			2.00	NM P	LG 1	25008000-05	+ 0.25
			4.00	GSF P	LG 1	25008000-07	+ 0.50
						25008000-09	+ 0.75
						25008000-11	+ 1.00
Compressor, Fiat	1	80.00	2.50	NM P	LG 1	25008001-00	STD
			2.50	NM P	LG 1	25008001-05	+ 0.25
			4.00	GSF P	LG 1	25008001-07	+ 0.50
						25008001-09	+ 0.75
						25008001-11	+ 1.00
Compressor, Sanwa	1	80.00	3.00	M P	LG 1	25008002-00	STD
			3.00	M P	LG 1	25008002-05	+ 0.25
			3.00	M P	LG 1	25008002-07	+ 0.50
			4.00	G P	LG 1	25008002-09	+ 0.75

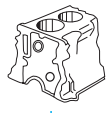

Make - Engine - Model	No	Ø mm.			Ring type	Material	Powerseal No	Size			
COMPRESSOR - BRAKE Cont.											
Compressor, Bosch FV/DT DW 1/220/1,0480 028 001/002/003/101 OM 360A, 355A	1	80.00			2.50	NM P	LG 1	25008003-00	STD		
					2.50	NM P	LG 1			25008003-07	+ 0.50
					2.50	NM P	LG 1				
					4.00	GSF P	LG 1				
Compressor, Air, TATA 41a, WABCO		80.00			2.50	NM P	LG 1	25008004-00	STD		
					2.50	NM P	LG 1				
					3.00	DSF CR P	KG 1				
Compressor, Fiat Knorr Bendix ACX83	1	82.00			2.50	M P	LG 1	25008201-00	STD		
					2.50	M P	LG 1			25008201-05	+ 0.25
					4.00	GSF P	LG 1			25008201-07	+ 0.50
										25008201-09	+ 0.75
25008201-11	+ 1.00										
Compressor, Fiat Knorr Bendix ACX83A	1	82.00			1.50	M P	LG 1	25008202-00	STD		
					1.50	M P	LG 1			25008202-05	+ 0.25
					3.00	GSF P	LG 1			25008202-07	+ 0.50
										25008202-09	+ 0.75
25008202-11	+ 1.00										
Compressor, Varga Truck MOD 6.90/7.90 *Two rings of 2,00 mm. by groove	1	82.00			2.00	M IF P	LG 1	25008203-00	STD		
					2.00	M IF P	LG 1			25008203-05	+ 0.25
					2.00	M IF P	LG 1			25008203-07	+ 0.50
					2.00	M IF P	LG 1				
					5.00	GSF P	LG 1				
Compressor, Westinghouse	1	85.00			2.50	M IF P	LG 1	25008501-00	STD		
					2.50	NM P	LG 1				
					2.50	NM P	LG 1				
Compressor, Fiat 306,682,690	1				4.00	GSF P	LG 1				
					4.00	G P	LG 1				
Compressor, Westinghouse	1	85.00			2.00	NM P	LG 1	25008502-00	STD		
					2.00	NM P	LG 1			25008502-05	+ 0.25
					4.00	GSF P	LG 1			25008502-07	+ 0.50
Compressor, DAF 825,1160	1							25008502-09	+ 0.75		
										25008502-11	+ 1.00
Compressor, Ford D1211 CAT7C0570	2	85.73			2.38	M P	LG 1	25008503-00	STD		
					2.38	NM P	LG 1			25008503-07	+ 0.50
					4.76	GSF P	LG 1			25008503-09	+ 0.75
					4.76	G P	LG 1				
Compressor, RVI Luftpresser	1	85.00			2.50	M IF P	LG 1	25008504-00	STD		
					2.50	M IF P	LG 1				
					2.50	M IF P	LG 1				
					4.00	G P	LG 1				

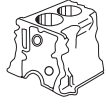

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
COMPRESSOR - BRAKE Cont.							
Compressor, 825, 1160 Westinghouse Luftpresser, DAF Luftpresser	2	85.00	2.00	M I F P	LG 1	25008506-00	STD
			2.00	M I F P	LG 1		
			2.00	M I F P	LG 1		
			4.76	S P	LG 1		
Compressor, RVI Luftpresser	1	85.00	2.50	M I F P	LG 1	25008507-00	STD
			2.50	M I F P	LG 1		
			4.00	G P	LG 1		
			4.00	G P	LG 1		
Compressor, Vaden		85.00	2.00	NM P	LG 1	25008508-00	STD
			2.00	NM P	LG 1	25008508-05	+ 0.25
			4.00	GSF P	LG 1	25008508-07	+ 0.50
						25008508-09	+ 0.75
						25008508-11	+ 1.00
Compressor, Air Westinghouse Hino		85.00	3.00	M P	LG 1	25008509-00	STD
			3.00	M P	LG 1	25008509-07	+ 0.50
			3.00	M P	LG 1		
			4.00	DSF P			
Compressor, Knorr		86.00	2.00	NM P	LG 1	25008601-00	STD
			2.00	NM P	LG 1	25008601-05	+ 0.25
			3.00	GSF P	LG 1	25008601-07	+ 0.50
						25008601-09	+ 0.75
			25008601-11	+ 1.00			
Compressor, Knorr LP 1828, LP 1836, LP 1841, LP 1865, LP 1866, LP 1848	1	88.00	2.00	NM I F P	LG 1	25008801-00	STD
			2.00	NM I F P	LG 1	25008801-07	+ 0.50
			2.50	NM P	LG 1		
			5.00	GSF P	LG 1		
Compressor, Knorr, LK 3904	1	88.00	2.50	M P	LG 1	25008802-00	STD
			2.50	NM P	LG 1	25008802-05	+ 0.25
			4.00	GSF P	LG 1	25008802-07	+ 0.50
Compressor, Mercedes Benz, OM 355,OM 360,OM 366,OM 366 A,OM 366 LA	1					25008802-09	+ 0.75
						25008802-11	+ 1.00
Compressor, MAN, D 08	1						
Compressor, Vaden		88.00	2.50	NM P	LG 1	25008803-00	STD
			2.50	NM P	LG 1	25008803-05	+ 0.25
			4.00	GSF P	LG 1	25008803-07	+ 0.50
						25008803-09	+ 0.75
						25008803-11	+ 1.00
Compressor, Westinghouse OM 355/360/400/440 MERCEDES BENZ	1	90.00	2.50	M P	LG 1	25009001-00	STD
			2.50	NM P	LG 1	25009001-05	+ 0.25
			4.00	GSF P	LG 1	25009001-07	+ 0.50
						25009001-09	+ 0.75
						25009001-11	+ 1.00



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
COMPRESSOR - BRAKE Cont.							
Compressor, Westinghouse OM 400/420-MAN 428 MERCEDES BENZ /MAN	1	90.00	2.50	M P	LG 1	25009002-00	STD
			2.50	NM P	LG 1	25009002-05	+ 0.25
			2.50	NM P	LG 1	25009002-07	+ 0.50
			4.00	GSF P	LG 1	25009002-11	+ 1.00
Compressor, Air, Westinghouse IVECO		90.00	2.50	NM P	LG 1	25009005-00	STD
			2.50	NM P	LG 1		
			5.00	GSF P	LG 1		
Compressor, Air Fatih 214 - 6 75/78 kW (102/106 PS) Vehicle: CX 20 RE/TRE	2	92.07	3.16	M P	LG 1	25009201-00	STD
			3.16	NM P	LG 1	25009201-05	+ 0.25
			4.76	DSF P	LG 1	25009201-07	+ 0.50
						25009201-09	+ 0.75
2.2l J 6 TA 84,5 kW (115 PS) Vehicle: CX 22, TRS	2						
Compressor, 3230	1	92.00	2.50	M P	LG 1	25009202-00	STD
			2.50	NM P	LG 1	25009202-05	+ 0.25
			4.00	GSF P	LG 1	25009202-07	+ 0.50
						25009202-09	+ 0.75
			25009202-11	+ 1.00			
Compressor, OM 457 Euro 4/5 , LP 490 Vehicle: Axor 1836LS, Axor 1840LS, Axor 2640CL, Axor 3240C, Axor 3340K, Axor 4140B, Capacity, Conecto, Turismo 15RHD		92.00	2.50	NM IFU P	LG 1	25009203-00	STD
			2.50	NM P	LG 1	25009203-05	+ 0.25
			3.00	GSF P	LG 1	25009203-07	+ 0.50
						25009203-09	+ 0.75
Compressor, Mercedes-Benz OM 314/352/352 A/362/364/366,OM 353.904	1	94.00	2.50	NM IF P	LG 1	25009401-00	STD
			2.50	NM IF P	LG 1	25009401-07	+ 0.50
			2.50	NM IF P	LG 1		
Compressor, Westinghouse	1	95.00	2.50	NM P	LG 1	25009502-00	STD
			2.50	NM P	LG 1	25009502-07	+ 0.50
			2.50	NM P	LG 1		
			4.00	G P	LG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
COMPRESSOR - BRAKE Cont.							
Compressor, Westinghouse Cummins, Holset		98.43	2.00	M IF P	LG 1	25009801-00	STD
			2.00	NM P	LG 1	25009801-05	+ 0.25
			2.00	NM P	LG 1	25009801-07	+ 0.50
			4.00	DSF P	LG 1	25009801-09	+ 0.75
						25009801-11	+ 1.00
Compressor, Mercedes-Benz OM 501 LA,OM 402.971	1	100.00	2.50	M P	LG 1	25010001-00	STD
			2.50	NM P	LG 1	25010001-05	+ 0.25
			4.00	GSF P	LG 1	25010001-07	+ 0.50
						25010001-11	+ 1.00
Compressor, MAN D 2840 LF 20	1						
Compressor, Westinghouse	1	100.00	2.50	M P	LG 1	25010002-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	GSF P	LG 1		
Compressor, Westinghouse	1	100.00	2.00	M IF P	LG 1	25010003-00	STD
			2.00	NM P	LG 1		
			4.00	GSF P	LG 1		
Compressor, Westinghouse	1	100.00	3.00	NM P	LG 1	25010004-00	STD
			3.00	NM P	LG 1		
			3.00	NM P	LG 1		
			5.00	G P	LG 1		
Compressor, RVI D 100	1	100.00	2.50	M P	LG 1	25010005-00	STD
			2.50	NM P	LG 1		
			2.50	NM P	LG 1		
			5.00	G P	LG 1		
Compressor, D.BENZ OM449A,OM449LA	1	100.00	2.50	NM P	LG 1	25010006-00	STD
			2.50	NM P	LG 1	25010006-00	+ 0.25
			3.00	GSF P	LG 1	25010006-07	+ 0.50
						25010006-09	+ 0.75
			25010006-11	+ 1.00			
Compressor, Air,		100.00	1.50	M P	LG 1	25010007-00	STD
			1.50	NM P	LG 1	25010007-05	+ 0.25
			3.00	GSF P	LG 1	25010007-07	+ 0.50
						25010007-11	+ 1.00

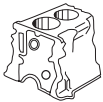

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CUMMINS							
In-line engine, diesel, 2.8l ISF 2.8	4	94.00	2.50	T CR	KG 1	12709401-00 12709401-07	STD + 0.50
			2.00	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 5.9l 6BTAA5.9 Vehicle: Fatih 180, 170-25 Truck	6	102.00	3.00	T CR	KG 1	12710200-00 12710200-05 12710200-07 12710200-11	STD + 0.25 + 0.50 + 1.00
			2.38	M IF P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 5.8l 5130	6	102.00	3.00	T CR	KG 1	12710201-00 12710201-05 12710201-07 12710201-11	STD + 0.25 + 0.50 + 1.00
			3.00	T CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2.9l 3B2.9 BN 25, CD 85, CN 96	3	102.00	2.38	R CR	KG 1	12710202-00 12710202-05 12710202-07 12710202-11	STD + 0.25 + 0.50 + 1.00
			2.38	M IF P	LG 1		
			4.00	DSF CR	KG 1		
3.9l 4B3.9	4						
5.9l 6B.9	6						
In-line engine, diesel, 1.9l 3BT2.9 Vehicle: BN 25, CD 85, CN 96	3	102.00	3.00	T CR	KG 1	12710203-00	STD
			2.38	M IFU P	LG 1		
			4.00	DSF CR	KG 1		
3.9l 4BT3.9, 4T-390, 4BTA3.9	4						
5.9l 6BT5.9, 6T-590, 6BTA5.9 Vehicle: RAM	6						
In-line engine, diesel, 4.5l QSB 4.5 82-127 kW	4	107.00	3.00	T CR	KG 1	12710701-00 12710701-07	STD + 0.50
			2.50	M IFU P	LG 1		
			3.50	DSF CR	KG 1		
6.75l, QSB 6.7 97-205 kW	6						
In-line engine, diesel, 6.7l, QSB 6.7 Vehicle: PC200, PC220	4	107.00	3.00	T CR	KG 1	12710702-00	STD
			2.50	M IFU CR	KG 1		
			3.50	DSF CR	KG 1		


Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
CUMMINS Cont.							
In-line engine, diesel, 8.2l 6CT 8.3 - 6CTAA 8.3 Vehicle: Fatih 220/270 - 26 , BELDE 214-17	6	114.00	3.50 3.00 4.00	T CR TM IWU P DSF CR	KG 1 LG 1 KG 1	12711401-00	STD
In-line engine, diesel, 8.3l 6 CT Vehicle: Cummins Truck, Generators, L340	6	114.00	3.50 3.00 4.00	T CR M P DSF CR	KG 1 LG 1 KG 1	12711402-00	STD
In-line engine, diesel, VS Vehicle: V8-555, VT-555 I, V8-210, (3278723)	1	117.47	3.17 2.38 2.77	T CR R IW CR DSF CR	KG 1 KG 1 KG 1	12711701-00	STD
In-line engine, diesel, 10.0l L10-225C, 225A, 250A,250C, 275A, 275C	6	125.00	3.17 3.17 4.76	T IW CR P T IW CR P DSF CR P	KG 1 KG 1 KG 1	12712501-00	STD
In-line engine, diesel, 10.8l 661 CID Vehicle: M11 Turbo	6	125.00	3.17 3.05 4.00	T IW CR TM IWU CR DSFST CR	KG 1 KG 1 ST	12712502-00	STD
In-line engine, diesel, NH 220 Series	1	130.18	3.96 3.96 3.96 6.35	T CR T IW P T IW P DSF CR P	KG 1 LG 1 LG 1 KG 1	12713001-00	STD
In-line engine, diesel, 14.0l 4BTA, 6BT, 6CT, NH220 Vehicle: NTA 855 G/GS NTC350 (BC) , 350 (SC) NTCC 350 , 400 (BC)	6	139.70	3.96 3.16 3.16 4.76	T CR TM IW P TM P DSF CR	KG 1 KG 1 KG 1 KG 1	12713901-00	STD
SERIE K		158.75	3.96 3.96 4.76	T CR TM IW CR DSF CR	KG 1 KG 1 KG 1	12715801-00	STD



Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
DAEWOO								
In-line engine, fuel, F6B, Damas, Matriz, Tico, F8C 0,8L, Lanos (96->), Spark (03->)	4	68.50	1.20	1.20	R CR	ST	13206801-00 13206801-07	STD + 0.50
			1.50	1.50	M P	LG 1		
			2.80	2.80	SLF CR	ST		
In-line engine, fuel, 1.2l Vehicle: Aveo 1.2 1.0l 4EA,B10S Vehicle: Tico, Martiz	4	68.50	1.20	1.20	R CR	ST	13206802-00 13206802-07	STD + 0.50
			1.20	1.20	M P	LG 1		
			2.50	2.50	SLF CR	ST		
In-line engine, fuel, 1.5l A15MF Vehicle: KADETT,DAEWOO CIELO	4	76.50	1.50	1.50	R CR	KG 1	13207601-00 13207601-05 13207601-07 13207601-09 13207601-11	STD + 0.25 + 0.50 + 0.75 + 1.00
			1.50	1.50	NM P	LG 1		
			3.00	3.00	DSF CR P	KG 1		
In-line engine, fuel, 1.4l 4NB D MT, 5 HB D AT + MT Vehicle: Kalos 1.4, Lacetti 1.4, Aveo 1.4	4	77.90	1.20	1.20	R CR P	ST	13207701-00 13207701-07	STD + .050
			1.50	1.50	NM P	LG 1		
			2.50	2.50	DSF CR	KG 1		
In-line engine, fuel,	4	77.90	1.20	1.20	R IF CR P	ST	13207702-00	STD
			1.20	1.20	NM P	LG 1		
			2.00	2.00	SLF CR	ST		
In-line engine, fuel, 1.6l LPG 1.6, C16LZ2, A16DM, A16MF Vehicle: Lanos, Nubira, Espero, Racer 1.6i	4	79.00	1.20	1.20	R CR	ST	13207901-00 13207901-07	STD + .050
			1.50	1.50	NM P	LG 1		
			3.00	3.00	SLF CR	ST		
In-line engine, fuel, 1.6l 80 kW- 109 PS Vehicle: Lacetti 1.6, Rezzo 1.6	4	79.00	1.20	1.20	R CR	ST	13207902-00	STD
			1.50	1.50	NM P	LG 1		
			2.50	2.50	DSF CR	KG 1		
In-line engine, fuel, 1.8l 89 kW- 121 PS Vehicle: Lacetti 1.8, Viva 1.8	4	80.50	1.20	1.20	R CR	ST	13208001-00	STD
			1.20	1.20	NM P	KG 2		
			2.00	2.00	SLF CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAEWOO Cont.							
In-line engine, fuel, 1.8l E-TEC II Vehicle: Nubira	4	81.60	1.50 1.50 3.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	13208101-00	STD
In-line engine, diesel, 2.0l Z 20DM, Z 20DMH	4	83.00	2.00 2.00 3.00	T CR NM P DSF CR	KG 1 LG 1 KG 1	13208301-00	STD
In-line engine, fuel, 1.8l C18LE Vehicle: Espero, Leganza	4	84.80	1.50 1.50 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	13208401-00	STD
In-line engine, fuel, 2.0l D-TEC, LPG 2.0, C20NE, C20SE Vehicle: Leganza 2.2i, Prince, Nubira, Espero 2.0i, Rezzo 2.0	4	86.00	1.50 1.50 3.00	R CR M P SLF CR	KG 1 LG 1 ST	13208601-00	STD
In-line engine, diesel, 8.0l D1146, DE08 Vehicle: Truck, Bus	6	111.00	3.50 3.00 4.00	T CR P M IW CR P DSFST CR	KG 1 KG 1 ST	13211101-00	STD
In-line engine, diesel, 2366 Vehicle: BS 106, Excavator, Forklift, Generator, Dumptruck	6	123.00	3.50 3.00 4.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	13212301-00	STD
In-line engine, diesel, 14.6l Vehicle : Industrial	8	128.00	3.50 3.00 4.00	T CR NM P DSF CR	KG 1 LG 1 KG 1	13212801-00	STD
DAF							
In-line engine, diesel, 2.5l XD 3 T Vehicle: type 400ET	4	94.00	3.00 2.00 4.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	12809401-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAF Cont.							
In-line engine, diesel, 5.8l DD 575 M, DS 575 M, DSD 575 M Vehicle: A 1500 DL-360, 406, 468, T 1500 DL-265, B 1500 DL-468,533, 580, A 3000 DL-422, 468,A 1500 D, A 1600 DD,T 1502 DD-265, A 1802 DS-490, T 1800 DS-300, T 1600 DD-360	6	100.60	2.38	R IF CR	KG 1	12810001-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			6.33	DSF P	LG 1		
			6.33	D P	LG 1		
In-line engine, diesel, 5.9l Vehicle: BN25, CD85, CD96	6	102.00	2.38	R CR	KG 1	12810200-00	STD
			2.38	NM P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 6.2l DN, DNT, DNS 620, NT 133 Vehicle: Type 1100, 1300, 1700, 1900	6	104.17	3.00	T CR	KG 1	12810401-00 12810401-05	STD + 0.25
			2.50	M CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 6.2l DF 615 Vehicle: 900,100,1200,1400,1600 6.2l DT 615,DTD 615 Vehicle: A1600 DF/DT/FT,1200 FA/FT,1400 FA/FT,DSD,A 1700,T 1700,V 1700	6	104.17	2.50	R CR	KG 1	12810402-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			6.00	DSF P	LG 1		
	6.00	D P	LG 1				
	6						
In-line engine, diesel, 8.3l H, S, DH, DU, DHB, DGR, DHT, DHS, DHU, DHDT 825 Vehicle: F 1800, FA 2000, FM 2000, FA 2505-DHS,FT 2000, F 2200, FA 200-5, FA/FT 2100, FA 2105, FA, FAR, FAT, FT 2300 FA, FAG, FT 2305, SB 2000, SB 2305,DHS 2500, FAR, FT 2500, FA, FAG, FAT 2505, FAT 2525 marine and industrial engine	6	118.00	3.00	R CR	KG 1	12811801-00	STD
			3.00	R CR	KG 1		
			3.00	M IF P	LG 1		
			6.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAF Cont.							
In-line engine, diesel, 8.3l H, S, DH, DU, DHB, DGR, DHT, DHS, DHU, DHD 825 Vehicle: F 1800, FA 2000, FM 2000, FA 2505-DHS, FT 2000, F 2200, FA 200-5, FA/FT 2100, FA 2105, FA, FAR, FAT, FT 2300, FA, FAG, FT 2305, SB 2000, SB 2305, DHS 2500, FAR, FT 2500, FA, FAG, FAT 2505, FAT 2525 marine and industrial engine	6	118.00	3.50 3.00 3.00 6.00	T CR M IF CR M IF P DSF CR	KG 1 KG 1 LG 1 KG 1	12811802-00	STD
In-line engine, diesel, 8.7l RS 180 Euro 1, Euro 2, RS 200 Euro 1, Euro 2 RS 222 Euro 1, Euro 2 Vehicle: FA 75.240, FA 75.270, FA 75.300	6	118.00	3.50 3.00 4.00	T CR M IF CR DSF CR	KG 1 KG 1 KG 1	12811803-00	STD
In-line engine, diesel, 9.2l PE 183 C Euro 3; PE 212 C Euro 3; PE 235 C Euro 3 0683429	6	118.00	3.50 3.00 4.00	TB CR M IF CR DSF CR	KG 1 KG 1 KG 1	12811804-00	STD
In-line engine, diesel, 11.6l DK, DKB, DKA, DKL, DKDL, DKSE, DKS, DKV, DKVL, DKSB, DKT, DKTD, DKTL, DKX, DKXE, DKZ, ATI, DKSE 1160 Vehicle: ATE 2400, MB 200 Building-machines 2600, 2605 Marine, industrial engine FAT 2605, FAS 2200 Serie ATI	6	130.00	3.16 3.16 3.16 6.33	T CR M CR M CR DSF CR	KG 1 KG 1 KG 1 KG 1	12813001-00	STD
In-line engine, diesel, 11.6l WS225, WS259, WS282 Vehicle: 95 310 ATI, 95 350 FA	6	130.00	4.00 3.16 4.00	T CR M CR DSF CR	KG 1 KG 1 KG 1	12813002-00	STD

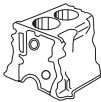

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAF Cont.							
In-line engine, diesel, 13l MX300 Euro 4/5 Vehicle: FA105, FA410, FA430	6	130.00	4.00 3.16 4.00	T IF CR M P DSF CR	KG 1 LG 1 KG 1	12813003-00	STD
In-line engine, diesel, 13l MX300, 340, 375 Euro 4/5 Vehicle: FA105, FA85	6	130.00	4.00 3.16 4.00	T CR M P DSF CR	KG 1 LG 1 KG 1	12813004-00	STD
DAIHATSU							
In-line engine, diesel, Industrial	3	72.00	1.50 1.50 3.00	HK CR M P DSF CR	KG 1 LG 1 KG 1	13307201-00 13307201-07 13307201-11	STD + 0.50 + 1.00
In-line engine, fuel, 1.0l EJ Gasoline Vehicle: Mira Gino, Storia	3	72.00	1.20 1.20 2.50	R CR NM P SLF CRP	ST LG 1 ST	13307202-00	STD
In-line engine, diesel, Industrial	3	74.00	1.50 1.50 3.00	HK IFU CR M P DSF CR	KG 1 LG 1 KG 1	13307401-00	STD
In-line engine, fuel, 1.3l HC-E, HC-EH, HC-F Vehicle: Charade, Feroza, Rocky	4	76.00	1.20 1.50 3.00	R IF CR M P SLF CR	KG 1 LG 1 ST	13307601-00	STD
In-line engine, diesel, Industrial	3	78.00	1.50 1.50 3.00	HK CR M P DSF CR	KG 1 LG 1 KG 1	13307801-00	STD

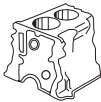

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ							
In-line engine, fuel, 0.6l M 169 E 06, M 160 E 06 Vehicle: Smart & pure, Smart & pulse, Smart Cabrio	3	63.50	1.20	R CR P	ST	13006301-00	STD
			1.50	M P	LG 1	13006301-05	+ 0.25
			2.50	DSF CR	KG 1	13006301-07	+ 0.50
						13006301-09	+ 0.75
						13006301-11	+ 1.00
In-line engine, fuel, 0.6l M160 E6AL B03, B04, B05 Vehicle: Cabrio 0.6, City-Coupe 0.6	3	63.50	1.20	R CR P	ST	13006302-00	STD
			1.50	M P	LG 1	13006302-05	+ 0.25
			2.50	SLF CR	ST	13006302-07	+ 0.50
In-line engine, diesel, 800 cm3 OM 660 DE 0.8 LA Vehicle: Smart CDI	3	65.50	1.50	R IF CR	KG 1	13006501-00	STD
			1.50	R IF CR	KG 1	13006501-05	+ 0.25
			2.50	DSF CR	KG 1	13006501-07	+ 0.50
In-line engine, fuel, 0.8l M160/1 Vehicle: Smart City Coupe, Smart Roadster	3	66.50	1.20	R CR P	ST	13006601-00	STD
			1.50	M P	LG 1	13006601-05	+ 0.25
			2.50	DSF CR	KG 1	13006601-07	+ 0.50
						13006601-09	+ 0.75
						13006601-11	+ 1.00
In-line engine, fuel, 800 cm3 M160/1 Vehicle: Smart City, Coupe, Smart Roadster	3	66.50	1.20	R CR	ST	13006602-00	STD
			1.20	M P	LG 1	13006602-05	+ 0.25
			2.50	DSF CR	KG 1	13006602-07	+ 0.50
In-line engine, fuel, 0.7l M160.921 /.922 Vehicle: Smart Cabrio, City Coupe, Fortwo, Roadstar (450,452)	3	66.50	1.20	R CR P	ST	13006603-00	STD
			1.20	R CR P	ST	13006603-05	+ 0.25
			2.50	SLF CR	ST		
In-line engine, fuel, 0.6l M160.910 Vehicle: Coupe Cabrio (450), Smart City	3	66.50	1.20	R CR P	ST	13006604-00	STD
			1.50	M P	LG 1	13006604-05	+ 0.25
			2.50	SLF CR	ST		
In-line engine, fuel, 1.0l M132 E10, M132 E10 AL, 3B21 Vehicle: Smart 1.0	3	72.00	1.00	R CR	ST	13007201-00	STD
			1.20	NM CR P	LG 1	13007201-05	+ 0.25
			2.00	SLF CR	ST	13007201-07	+ 0.50



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	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, fuel, 1.0l M132.910 Vehicle: Smart Fortwo Cabrio, Coupe	3	72.00	1.00 1.00 2.00	R NIT NM P SLF NIT	ST KG 1 ST	13007202-00	STD
In-line engine, diesel, 1.8l OM 636.914/915/916/917/918/ 919/930/931/934 Vehicle: Unimog 411.110	4	75.00	2.00 2.00 2.00 5.00 5.00	R IF CR M P NM P DSF CR G P	KG 1 LG 1 LG 1 KG 1 LG 1	13007501-00 13007501-07 13007501-11 13007501-14 13007501-16	STD + 0.50 + 1.00 + 1.50 + 2.00
In-line engine, diesel, 1.5l OM607.951 (K9K) OM607.951 (K9K) Vehicle: 108, 111, A160, A180,B100, B180, CLA180, GLA180	4	76.00	1.75 1.75 2.00	HK DLC M IFU P DSFST NIT	ST LG 1 ST	13007601-00	STD
In-line engine, fuel, 2.2l M 127 III.982/984 M 180 V.920/924/927/940/941/ 982/984 Vehicle: 220, 220 SEB, 230 SUnimog S 404.113	6	80.00	2.00 2.50 3.00 5.00	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	13008001-00	STD
In-line engine, diesel, 1.7l OM 668 DE 17 LA Vehicle: A160, A170, Vaneo CDI	4	80.00	2.00 2.00 3.00	R CR P M IF P DSF CR P	KG 1 LG 1 KG 1	13008002-00 13008002-05 13008002-07	STD + 0.25 + 0.50
In-line engine, fuel, 2.2l M 180 945/947/949/950/951/954 Vehicle: 230	6	81.75	1.75 2.50 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	13008100-00 13008100-07	STD + 0.50
In-line engine, fuel, 2.5l M108 111 Vehicle: DB250/250S, Cabriolet,Coupe 2.5l M114 Vehicle: 250CE,250S	6 6	82.00	2.00 2.50 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	13008201-00 13008201-07	STD + 0.50

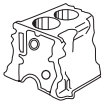

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
DAIMLER BENZ Cont.								
In-line engine, fuel, 2.6l M 103 E 26 . 940/941/942/943/984/987 Vehicle: 190 E 2.6, 260 E,260 SE,300 E	6	82.90	1.50 1.75 3.00	R IF CR P NM P DSF CR	KG 1 LG 1 KG 1	13008202-00	STD	
In-line engine, diesel, M127,230.S	6	82.00	1.75 2.50 4.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	13008203-00	STD	
In-line engine, fuel, 1.6l M271.910, 911,921 Vehicle: C, CLC Class In-line engine, fuel, 1.8l M271.940, 941, 944, 946, 948, 950, 952, 954, 955, 956, 957, 958 Vehicle: E Class, C Class, CLK, SLK	6	82.00	1.20 1.50 2.50	R CR M P SLF CR	ST LG 1 ST	13008204-00 13008204-05 13008204-07	STD + 0.25 + 0.50	
In-line engine, fuel, 1.8l M271.820, 860,861 Vehicle: SLK200, 250, C180, C200, C250, E200, E250	4	82.00	1.20 1.50 2.00	R CR M P SLF CR	ST LG 1 ST	13008205-00	STD	
In-line engine, diesel, 2.0l OM654.920 Vehicle: VITO, SPRINTER 3.0l OM654.929 Vehicle: E350, E400, 4-matic	4 6	82.00	2.00 1.75 2.00	R IF CR M IFU CR DSFST CR	KG 1 KG 1 ST	13008206-00	STD	
In-line engine, diesel, 2.1l OM 651 Vehicle: C 250, GLK 220 CDI BLUE EFFICIENC, GLK 250 CDI	4	83.00	2.00 1.75 2.00	B CR M IFU P DSFST CR	KG 1 LG 1 ST	13008301-00 13008301-05 13008301-07	STD + 0.25 + 0.50	



Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
DAIMLER BENZ Cont.								
In-line engine, diesel, 3.0l OM642 DE 30LA Vehicle : C, E, S class, CLK, CLS, R, Vito	6	83.00	2.00	2.00	T CR	KG 1	13008302-00 13008302-07	STD + 0.50
			2.00	2.00	M IFU P	LG 1		
			2.00	2.00	DSFST CR	ST		
In-line engine, diesel, 3.0l OM642.820 Vehicle: C,E,S Class, CLK, CLS,M, R,G,Vito, Sprinter	6	83.00	2.00	2.00	T CR	KG 1	13008303-00	STD
			2.00	2.00	M IFU CR	KG 1		
			2.00	2.00	DSFST CR	ST		
In-line engine, diesel, 2.0l OM639, OM640 Vehicle: A180, A200, B180, B200	4	83.00	2.00	2.00	R IF CRP	KG 1	13008304-00	STD
			2.00	2.00	M IFU P	LG 1		
			2.00	2.00	DSFST CR	ST		
In-line engine, fuel, 1.9l M 121.922/924/926/929 Vehicle: L 319, O 319 B 3.0l M 186 II.920, M 198, M 188.920, M 199 Vehicle: 300 B, 300 C, 300 S, 300 SL	4	85.00	2.00	2.50	R IF CR P	KG 1	13008500-00 13008500-07	STD + 0.50
			2.00	3.00	M IF P	LG 1		
			2.00	5.00	NM P	LG 1		
	6	85.00	2.00	1.50	R IF CR P	KG 1		
			2.00	1.75	M IF P	KG 1		
			2.00	3.00	DSF CR	KG 1		
In-line engine, fuel, 1.8l M 111.920, 921 Vehicle: C180, C180T	4	85.30	1.50	1.75	R IF NIT	ST	13008501-00	STD
			1.75	3.00	NM P	LG 1		
			3.00	3.00	SLF NIT	ST		
In-line engine, fuel, 2.5l M 123.920/921 Vehicle: 250 2.8l M110.921/922/923/924/925/ 931/932/933/981/982/983/ 986/987/988/989/990/991 Vehicle: 280, 280 E, 280 SE, 280 SL (CH) 280 GE, U 110	6	86.00	1.75	2.50	R IF CR	KG 1	13008601-00 13008601-07 13008601-11	STD + 0.50 + 1.00
			1.75	4.00	NM P	KG 1		
			2.50	4.00	DSF CR	KG 1		
	6	86.50	2.00	2.00	R CR	KG 1		
			2.00	2.50	R CR	KG 1		
			2.00	4.00	NM P	KG 1		
In-line engine, fuel, 2.8l M 130 Vehicle: 250,280 S,300 S	6	86.50	2.00	2.50	R CR	KG 1	13008602-00 13008602-07 13008602-11	STD + 0.50 + 1.00
			2.00	4.00	R CR	KG 1		
			2.50	4.00	DSF CR	KG 1		

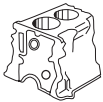

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, fuel, 2.8l M 130,920,,,925/933/983 81/95,5/103/117,5/125 Vehicle: 280 S,280 SE,280 SL,250 C,300 SE,U 110,404	6	86.50	2.00	R CR	KG 1	13008603-00 13008603-07 13008603-11	STD
			2.50	NM P	LG 1		+ 0.50
4.00	DSF CR	KG 1	+ 1.00				
2.8l M 130,920/921/923/980984 81/95,5/103/117,5/125 Vehicle: 280 S,280 SE,280 SL,250 C,300 SE,U 110,404 (USA)	6						
In-line engine, fuel, 4.0l OM628.960,961,962,963 Vehicle: E400, G400, ML400, S400	6	86.00	2.50	R IF CRP	KG 1	13008604-00	STD
			2.00	M IFU P	LG 1		
			3.00	DSF CRP	KG 1		
In-line engine, diesel, 2.0l OM 612.912/916/918/930/932 Vehicle: 180D,190D,200 D, L319 D,L405 D	4	87.00	1.50	R CR	KG 1	13008701-00 13008701-11	STD + 1.00
			1.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2.0l OM 615.913/915 Vehicle: 200 D, 206 D, 306 D	4	87.00	3.00	R CR	KG 1	13008702-00 13008702-07 13008702-11	STD + 0.50 + 1.00
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
2.2l OM910/911/912/914/916/917 918/919/930/936/937/938/ 941 Vehicle: 220 D, 206 D, 306 D, 309 D 406 D, 409 D, O 309 D Unimog U 45/421, -U 52/421	4						
In-line engine, diesel, 2.0l OM 615.940/943/944/963 Vehicle: 200 D, 206 D, 207 D, 306 D, MB 120 (E)	4	87.00	2.00	R CR	KG 1	13008703-00 13008703-07 13008703-11	STD + 0.50 + 1.00
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
2.2l OM 615.910/911/912/914/916/917/941 Vehicle: 220 D, L 206 D, L 306 D, O 309 D, L 406 G, L 408 G, Unimog U 45/421, -U 52/421	4						



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
DAIMLER BENZ Cont.								
In-line engine, fuel, 2.1l M115, 900-935 Vehicle: 220 , 0 309, L 408	4	87.00	2.00	R CR	KG 1	13008704-00	STD	
			2.50	NM P	LG 1		+ 0.50	
			4.00	DSF CR	KG 1		+ 1.00	
In-line engine, diesel, 2.0l OM 621.912/913/914/916/918/91 9/930/932 Vehicle: 180D,190D,200D,0 319 D, O 309 D, L 406 G, L 408 G, Unimog U 40/421,	4	87.00	1.50	R IF CR	KG 1	13008705-00	STD	
			1.50	M P	LG 1			
			2.50	NM P	LG 1			
			5.00	DSF CR	KG 1			
In-line engine, fuel, 2.0l M 115.923/926/938/939 Vehicle: 200, O 309 B, L 408 GC	4	87.00	1.50	R IF CR	KG 1	13008706-00	STD	
			2.50	NM P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine, fuel, 2.0l M 115.923/926/938/939 Vehicle: 200, O 309 B, L 408 GC	4	87.00	1.75	R IF CR	KG 1	13008707-00	STD	
			2.50	NM P	LG 1		+ 0.25	
			4.00	DSF CR	KG 1		+ 0.50	
							13008707-11	+ 1.00
In-line engine, diesel, 2.0l OM 601.911/912 Vehicle: 190 D, 200 D 2.2l OM 601.921 Vehicle: 190 D (USA)	4	87.00	2.00	R CR	KG 1	13008708-00	STD	
			2.00	M IF P	LG 1		+ 0.50	
			3.00	DSF CR	KG 1		+ 1.00	
	6							
In-line engine, diesel, 2.0l OM 601.911/912-OM621 Vehicle: 190 D, 200 D,L/0406	6	87.00	2.00	R IF CR	KG 1	13008709-00	STD	
			2.00	M IF P	LG 1		+ 0.50	
			2.00	M IF P	LG 1		+ 1.00	
			5.00	DSF CR P	KG 1			

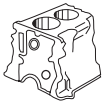

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, diesel, 2.0l OM 601.911/912/913 Vehicle: C200D, E200D	4	87.00	2.50	R IF CR	KG 1	13008710-00	STD
			2.00	M P	LG 1	13008710-07	+ 0.50
			3.00	DSF CR	KG 1	13008710-11	+ 1.00
2.5l OM 602.911/912/930/931/938/ OM 605 D25.910/911/912/917 OM 602 A.911/961/962/993 OM 605 LA.960/962 Vehicle: C250D, E250D	5						
3.0l OM 603.912/913/931 OM 606.910/912 Vehicle: E300, 300 GD	6						
In-line engine, diesel, 2.0l OM 601.911/912/913	4	87.00	2.00	R CR	KG 1	13008711-00	STD
			2.00	M IF P	LG 1		
			2.50	NM P	LG 1		
2.5l OM 602.911/912/930/931/938 OM 605 D25.910/911/912/917	5		5.00	DSF CR	KG 1		
3.0l OM 603.912/913/931 OM 606.910/912 OM 603 A.960/961/963 OM 606 LA	6						
In-line engine, fuel, 3.0l M104 E 30.980/981 Vehicle: 300 E,300 SE,300 SL	6	88.50	1.50	R CR	KG 1	13008801-00	STD
			1.75	NM P	LG 1	13008801-07	+ 0.50
			3.00	DSF CR	KG 1	13008801-11	+ 1.00
In-line engine, diesel, 2.2l OM 611 DE22LA Vehicle: C 200 CDI, C 220 CDI, E 220 CDI	4	88.00	2.50	R CR	KG 1	13008802-00	STD
			2.00	M P	LG 1	13008802-07	+ 0.50
			3.00	DSF CR	KG 1	13008802-11	+ 1.00
2.7l OM 611 DE22LA Vehicle : C 270 CDI	5						
3.2l OM 611 DE22LA Vehicle : C 320 CDI	6						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, diesel, 2.2l OM 611 DE22LA Vehicle: C 200 CDI, C 220 CDI, E 220 CDI	4	88.00	2.50	R IF CR P	KG 1	13008803-00	STD
			2.00	M IF P	LG 1	13008803-07	+ 0.50
			3.00	DSF CR	KG 1	13008803-09	+ 0.75
2.7l OM 611 DE22LA Vehicle: C 270 CDI	5					13008803-11	+ 1.00
3.2l OM 611 DE22LA Vehicle: C 320 CDI	6						
In-line engine, diesel, 2.2l OM 646.986 80/110 KW (109/150 PS) Vehicle: 200 CDI, 220 CDI, Vito, Viano, Sprinter 209, 211, 215 CDI 509, 511, 515 CDI	4	88.00	2.50	R CR	KG 1	13008804-00	STD
			2.00	M IF P	LG 1	13008804-07	+ 0.50
			2.00	DSFST CR	ST	13008804-09	+ 0.75
2.7l OM 647 125 KW Vehicle:Sprinter						13008804-11	+ 1.00
3.2l OM 648 145/150KW(197/204PS) Vehicle: 280 CDI, 320 CDI							
In-line engine, diesel, 2.2l OM646.961/951/962/963/966 Vehicle: SPRINTER 213, 313, 413 CDI, VITO- VIANO CDI, VITO C220 CDI W203, VITO E220 CDI W211	4	88.00	2.50	R IF CR	KG 1	13008805-00	STD
			2.00	M IFU CR	KG 1	13008805-07	+ .050
			3.00	DSF CR	KG 1		
2.7l OM647.961/981 Vehicle: E270CDI							
3.2l OM648.960/961 Vehicle: E320 CDI, S320 CDI							

Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
DAIMLER BENZ Cont.									
In-line engine, diesel, 2.2l OM 646.986 Vehicle: Sprinter	4	88.00	2.50	R CR	KG 1	13008806-00 13008806-07	STD + .0.50		
			2.00	M IFU CR	KG 1				
			2.00	DSFST CR	ST				
In-line engine, fuel, 3.0l M272 Vehicle: C230, C280,E230, E280,	6	88.00	1.50	R CR P	KG 1	13008807-00	STD		
			1.75	NM P	LG 1				
			2.50	DSF CR	KG 1				
In-line engine, fuel, 2.0l M 102 E, M 102 V Vehicle: 190, 200 1.8l M 102 E 18, 102.910 Vehicle: 190 E 1.8	4	89.00	1.75	R IF CR	KG 1	13008901-00 13008901-07 13008901-11	STD + 0.50 + 1.00		
			2.00	NM P	LG 1				
			3.50	DSF CR	KG 1				
	4	89.00	2.50	R IF CR	KG 1				
			2.00	M IF P	LG 1				
			3.00	DSF CR	KG 1				
In-line engine, diesel, 2.3l OM601.900/940/941/942/943 Vehicle: 208, 308, 408, 508, Sprinter 2.9l OM602.900/940/942/946/947 210, 310, 410, 290 GD Vehicle: Unimog 90/110/140 OM 602 DE 29 A.980/981/982/983/984/985 Vehicle: Sprinter, 212 D, 312 D, 412 D E 290 GD	5	89.00	2.50	R IF CR	KG 1	13008902-00 13008902-07	STD + 0.50		
			2.00	M IF P	LG 1				
			3.00	DSF CR	KG 1				
In-line engine, fuel, 2.0l M111E Vehicle: E200, C200 2.2l M111E 22.960 Vehicle: 220E, C220, E220 3.2l M104.996 Vehicle: C320, E320	4	89.90	1.50	R IF CR P	KG 1			13008903-00 13008903-05 13008903-07 13008903-11	STD + 0.25 + 0.50 + 1.00
			1,75	NM P	LG 1				
			3.00	DSF CR	KG 1				
4	89.90	1.50	R IF CR P	KG 1					
		1,75	NM P	LG 1					
		3.00	DSF CR	KG 1					
6	89.90	1.50	R IF CR P	KG 1					
		1,75	NM P	LG 1					
		3.00	DSF CR	KG 1					

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, diesel, 2.4l OM 616.910/912/913/918/934/ 936/937/938/939/940/962 Vehicle: 240 D, 207 D, 307 D, 407 D 507 D, O 309 D, U 600/L U 6000, 100 D, MB 100	4	90.90	3.00	R IF CR P	KG 1	13009000-00 13009000-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
3.0l OM617.910/912/913/919/931 /932 Vehicle: 240 D 3.0, 300 D	5						
In-line engine, fuel, 2.3l M 111 E 23 ML Vehicle: C 230/T, Kompressor, CLK 230, Kompressor, SLK 230, Kompressor, V230, ML 230	4	90.90	1.50	R CR P	KG 1	13009001-00	STD
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
2.3l M 111 E 23 Vehicle: C 320 CDI	V4						
In-line engine, diesel, 2.4l OM 616.910/912/913/918/934/ 936/937/938/939/940/962/ Vehicle: 240 D, 207 D, 307 D, 407 D 507 D, O 309 D, U 600/L U 6000, 100 D, MB 100	4	91.00	3.00	R CR	KG 1	13009100-00 13009100-07	STD + 0.50
			2.00	R CR	KG 1		
			4.00	DSF CR	KG 1	13009100-11	+ 1.00
3.0l OM 617.910/912/913/919/931 Vehicle: 240 D 3.0, 300 D	5						
V-type engine, fuel, 3.5l M 116 V 8.980/981/982/983/984/985 Vehicle: 280 SE 3.5, 300 SE 3.5 350 SE, 350 SL	8	92.00	1.75	R IF CR	KG 1	13009201-00 13009201-07	STD + 0.50
			2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
4.5l M 117 Vehicle: 450 S, 450 SL	8						

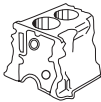

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, fuel, 3.5l M 272.960/961/964/965/966 Vehicle: C350, CLK350, E350, 4 matic	6	92.90	1.50 1.75 2.50	R NIT NM P SLF NIT	ST LG 1 ST	13009202-00	STD
In-line engine, fuel, 2.3l M115.951/952/954/955/970/971 972/973/974 M 115 KV 23.958 Vehicle: 230 G (USA)L 408, L 409, L 410, O 309 B, 208, 210, 308	4	93.75	1.75 2.50 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	13009300-00 13009300-06 13009300-07 13009300-10	STD + 0.40 + 0.50 + 0.80
In-line engine, fuel, 2.3l M 102 E 23.980/981/982/985/987/ 989/997/998/NV M102.942/943/945/946/958/ 959/NV Vehicle: L208,308,210	4	95.50	1.75 2.00 3.50	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	13009501-00	STD
In-line engine, fuel, 5.0l M 117; M 117.960/961; M117.964/965; M 119 E 50.960; M 119 E 50.970 NV; M 119 E 50.970/972; M 119 E 50.970/972; M 119 E 50.970/972/974 Vehicle: E 500, 500 SE, 500 SEL/SEC Sports (USA), 500 SL, 500 E	V8	96.50	1.75 2.00 3.50	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	13009601-00	STD
5.5l M 117; M 117.968 Vehicle: 560 SE/SEL/SEC, 560, 560(USA)	V8						
In-line engine, fuel, 5.0l M 119 E 50	V8	96.50	1.50 1.75 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	13009602-00	STD
Vehicle: S 500, SL 500, CL 500							

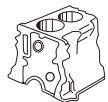

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
DAIMLER BENZ Cont.								
In-line engine, diesel, 3.8l OM 314.910/914 964	4	97.00	3.00	3.00	T CR	KG 1	13009701-00	STD
			3.00	3.00	M P	LG 1	13009701-07	+ 0.50
			3.00	3.00	M P	LG 1	13009701-11	+ 1.00
5.7l OM352.900/903/904/906/907 909/911/914/941942//964/96 5/967/968/969/970/976/979/ 982/983/984/986/989/990 OM353.900/902/904/917/941 942/943/964/966/967/968/96 9/981/982/983/984/996 OM 367.910	6		5.50	5.50	DSF CR	KG 1		
In-line engine, diesel, 3.8l OM 314.963	4	97.00	3.00	3.00	T CR	KG 1	13009702-00	STD
			3.00	3.00	M P	LG 1	13009702-05	+ 0.25
			3.00	3.00	NM P	LG 1	13009702-07	+ 0.50
5.7l OM 352.906 OM 353.949/968	6		5.50	5.50	DSF CR	KG 1	13009702-09	+ 0.75
			5.50	5.50	D P	LG 1	13009702-11	+ 1.00
							13009702-14	+ 1.50
In-line engine, diesel, 3.8l OM 314 A Vehicle: Tractor 900 Turbo (USA)	4	97.00	2.50	2.50	T CR	KG 1	13009703-00	STD
			2.50	2.50	R IW CR	KG 1	13009703-07	+ 0.50
			4.00	4.00	DSF CR	KG 1	13009703-11	+ 1.00
5.7l OM 352 A, OM 353 A 353.909/910/911/912/913/ 951/952/953/954/970/971/97 OM 362 LA.900/906/909/910	6							

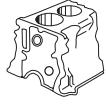

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

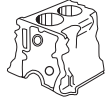

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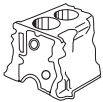

In-line engine, diesel, 4.0l OM 356 A.940 OM 356 LA.983 Euro 1 OM 364 LA.901/950/952/953/954/ 980/981 Euro 1 OM 364 A.901/950/952/953/ 954/980/981 OM 364.900/906/907/912	4	97.50	2.50	T CR	KG 1	13009704-00	STD	
			2.50	M IWU CR	KG 1		13009704-07	+ 0.50
			4.00	DSF CR	KG 1		13009704-11	+ 1.00
5.7l OM 352 A OM 353 A, 353.909/910/911/912/913/ 950/951/952/953/954/970 972/976	6							
6.0l OM366.900/905/907/909/910 912/913/914/915/917/918/91 9/930/931/932/933 OM356.978/986/987/989/990 991/992/993/994/995/996/99 Euro 1	6							



Make - Engine - Model	 No	Ø mm.		Ring type	Material	Powerseal No	Size
DAIMLER BENZ Cont.							
In-line engine, diesel, 4.0l OM 364.900/906/907/912; OM 356 A.940; OM 364 A.901/950/952.. 954/980/981; OM 364 A.957 .. 959 Euro 1 OM 364 LA. 901/950/952.. 954/980/981; OM 354 LA. 900.. 903/920.. 925 Euro 2; OM 364 LA.901-504 Euro 1 Vehicle: 1717; Unimog 90/110/140, 711, 811; 711D, 811D, Forst-Trac; Unimog 90/110/140; 610, 710, 711, 810, 811, 714, 814; 814	4	97.50	2.50 2.50 4.00	T CR M IWU P DSF CR	KG 1 LG 1 KG 1	13009706-00 13009706-07	STD + 0.50
6.0l OM 366.915 Euro 1; OM 366 A.941/943.. 949/951..953/958/959 Euro 1, OM 356.941; OM 366 LA Euro 2, OM 357.900..904/906.. 908/916/918/948/961, OM 364 LA. 900.. 903 Euro 2; OM 366 LA, OM 356.978/986/987/990/992.. 996 Euro 1; OM 366 LA, OM 356.979/989/ 991/999 Euro 1; OM 366 LA.901/980/981/983/984/ 988/990/992.. 994/997; OM 356.941/ 943..949/951.. 953/958/959; OM 366.900/905/907/909/910/912.. 914/ 917..919/930..933; OM 366 A.901/951/953/ 955/957/960/962/965..971/974; Vehicle: 817, 1117, 1317, 1417; 817, 917, 1117, 1317, 1417, 1517, 1120, 1320, 1520, 1820; 1120, 1120 AF/F, 1320, 1520, 1720, 1820, 1920; 1120 /AF, 1224 AF; 1119, 1120, 1317, 1320, 1420, 1619, U 1750, U 2150, 1620, 2219 2220 U 1550; 1117, 1317, 1417, 1517, 917, 817; 709, 809, 811, 814, 914, 1114, 1314, 1414, 1614, O 301 O 402; 817, 917, 1117, 1217, 1317, 1417, 1617, O 301, O 402	6						

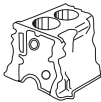

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, diesel, 3.8l OM 314 A Vehicle: MB-Trac 900 Turbo	4	97.00	2.50	T CR	KG 1	13009707-00 13009707-07 13009707-11	STD + 0.50 + 1.00
			2.50	M IWU P	LG 1		
			4.00	DSF CR	KG 1		
5.7l OM 362 LA.906/ 909; OM 362 LA.900/906/909/910; OM 353 A, 353.953; OM 352 A, 353.909/910/911/ 912/913/914/950/951/952/953 /954/970/971/972/976; Vehicle: 1419 (USA) 82-86; 1419, 1619, 2219, 1420, 1620, 2220; 1413; 1013, 1113, 1213, 1313, 1513, 1613, 1813; 917, 1017, 1217, 1417, 1617 UZ 150/425 U 1000/L U 1200/L U 1300/L U 1500 U 1700/L MB-Trac 300/1100/1300/1500; 1017, 1217, 1417, 1617, U 1000, U 1250, U 1300, U 1500, U 1700, MB-Trac 1300/1500	6						
In-line engine, diesel, 4.0l OM 364, OM 364 A, OM 364 LA Vehicle: Atego	4	97.50	2.50	R CR	KG 1	13009708-00 13009708-07	STD + 0.50
			2.50	M IWU CR	KG 1		
			4.00	DSF CR	KG 1		
6.0l OM 366, OM 366 A, OM 366 LA Vehicle: Atego	6						
In-line engine, diesel, 4.3l OM 904 LA.905....908 Euro 2 Vehicle: 612, 711, 811, 812, 814, 911, 917, 1117, 1317	4	102.00	3.00	T CR	KG 1	13010201-00	STD
			2.50	M IWU CR	KG 1		
			4.00	DSF CR	KG 1		
6.4l OM 906 LA.906/ 910/911/930/931 Euro 2 Vehicle : 1023, 1523, 1328, 1528, Atego	6						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, diesel, 4.2l OM 900 Euro4, OM924 Euro5 Vehicle: ATEGO	4	102.00	3.50	T IW CR	KG 1	13010202-00	STD
			2.50	M IWU CR	KG 1		
			4.00	DSF CR	KG 1		
6.4l OM 902 Euro4 Vehicle: ATEGO	6						
In-line engine, diesel, 4.8l OM 924 LA Euro 3 Vehicle: Truck	4	106.00	3.00	T CR	KG 1	13010601-00	STD
			2.50	M IWU CR	KG 1		
			4.00	DSF CR	KG 1	13010601-07	+ 0.50
In-line engine, diesel, 7.2l OM 926 LA Euro 3 Vehicle : Truck	6						
In-line engine, diesel, 4.8l OM923, OM924 Vehicle: ATEGO, ATRON, AXOR	4	106.00	3.50	T CR	KG 1	13010602-00	STD
			2.50	M IWU CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 8.7l OM 360 A OM360.911/912/934/938/947 /954/955/956/959/974/976/9 78/978 Vehicle: Buses (Export) L 1317, LP 1317, LP 1319, LP 1417, LP 1419, LP 1519, LP 1619, LP 1817, LP 1819, O 302, O 305	6	115.00	3.50	T CR	KG 1	13011501-00	STD
			3.00	R CR	KG 1		
			5.50	DSF CR	KG 1	13011501-11	+ 1.00
						13011501-14	+ 1.50
In-line engine, diesel, 8.0l OM 327 A Vehicle: LP 1317, LP 1216, LPK 1216, LPS 1317, LP 1417, LP 1517, O 302 12R, O 305	6	115.00	3.50	T CR	KG 1	13011502-00	STD
			3.00	M IF P	LG 1		
			3.00	M IF P	LG 1	13011502-07	+ 0.50
			5.50	DSF CR	KG 1	13011502-11	+ 1.00

Make - Engine - Model				Ring type	Material	Powerseal No	Size			
	No	Ø mm.								
DAIMLER BENZ Cont.										
In-line engine, diesel, 9.6l OM 401.900/905/909/912/916/91 8/919/ 921/923 10.5l OM 401.901/924 11.0l OM 407 H.905/907/908/909/910/911 11.4l OM 407 H.901/911/912/913/914/915/ 916/917/918/919/91 V-type engine, diesel 12.8l OM 402.900/905/907/910/914/91 6/917/ 919/921 16.0l OM 403.900/905/906/910/915/91 9/930/ 932/934 19.1l OM 404.900	6	125.00	3.00 3.00 6.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	13012501-00	STD			
	In-line engine, diesel, 9.5l OM 401LA Euro V-type engine, diesel, 12.7l OM 402 LA Euro 1838/2038/2538/2638/3238	6	125.00	3.00 3.00 4.00	T CR NM P DSF CR			KG 1 LG 1 KG 1	13012502-00	STD
		8								
		6	125.00	3.00 3.00 4.00	T CR M IF P NM P DSF CR			KG 1 LG 1 LG 1 KG 1		
	V-type engine, diesel, 10.5l OM 401.905	6								
	16.0l OM 403	6								
	21.0l OM 404 A.901	6								

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
DAIMLER BENZ Cont.								
In-line engine, diesel, 9.3l OM 409 11.4l OM 407, OM 407 h.905/ 907..911 OM 407 h.901/ 911..919 Vehicle : 1719, O 305, O 305 G, O 307 16.0l OM 403.910/915..919/930..932/ 934 OM 403.900/ 905/906 Vehicle : 1632, 1932, 2032, 2232, 2632, O 303, 632 K/AK, LP/, LPS/LPSL/LPK 1632,1932 K/AK, LP/LPS, 1932, 1932 S, LP/LPL/LPK 2232, 2632 A/AK 21.0l OM 404.900 9.5l OM 401.900/ 905..909/912..916/918/919/921. 923/925..928 Vehicle : 1219, 1419, 1419 F, 1419 L, 1619, 1719, 1819, 1916 L, 1919, 2219 2219 K 2219 L O 303 13.0l OM 402.900/ 905..907/910. 914/916/917/ 919/921..928 Vehicle : 1424 1424 F 1624 1624 L 1626 1626 L LP 1626 1924 1926 2224, 2224 K2626 2626 A 2626 B O 303	5	125.00	3.00	T CR	KG 1	13012504-00	STD	
				3.00	NM P			LG 1
				6.00	DSF CR			KG 1
		6						
		V10						
		V12						
		V6						
	V8							
V-type engine, diesel, 9.6l OM 401 LA.901/970/972.. 975/ 977..981/ 984.. 994 Euro 1 12.8l OM402 A/LA.901/970.. 973/975/977/978/ 982.. 990/ 995 Euro1 Vehicle: 404, 1838, 2638, 2635, 1831, 2531, 1226, 1227, 1429, 1726, 1727, 1827, 2422, 2427, 2527	V6	125.00	3.00	T CR	KG 1	13012505-00	STD	
				3.00	M CR			KG 1
			4.00	DSF CR	KG 1			
	V8							

Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
DAIMLER BENZ Cont.									
In-line engine, diesel 9.9l OM 429 A/LA	5	128.00	3.00 3.00 4.00	T CR M IWU CR DSF CR	KG 1 KG 1 KG 1	13012801-00	STD		
10.0l OM 449 HLA, Euro 1	5								
V-type engine, diesel 11.0l OM 421 A, OM 440, OM 441 A/LA, OM 442 A	6								
12.0l OM 427 H/HA/LA, OM 447 A/LA/H/HLA	8								
14.6l OM 422 A./LA, OM 442 A OM 442 A/LA	8								
18.3l OM 423 A/LA, OM 443 A/LA	10								
18.3l OM 423 A/LA, OM 443 A/LA	12								
In-line engine, diesel, 10.8l OM 346.910/911/912/913/914/ 915/916/917/918/919/940/941/94 2/943/944/945/946/947/952	6	128.00	3.50 3.50 3.50 6.50	T CR M IF P NM P DSF CR	KG 1 LG 1 LG 1 KG 1			13012802-00 13012802-05 13012802-07 13012802-09 13012802-11 13012802-14	STD + 0.25 + 0.50 + 0.75 + 1.00 + 1.50
11.6l OM 355.960/961/962/963/964/ 965/966/967/970/972/973/97 4/975/976/978/979/980/981/ 982/983	6								
11.9l OM 355 A.968/969/978	6								
In-line engine, diesel, 10.0l OM 421 159 kW (216 PS)	6	128.00	3.00 3.00 4.00	T CR NM P DSF CR	KG 1 LG 1 KG 1	13012803-00	STD		
14.0l OM422 206 kW (280 PS)	8								
18.0l OM423 261 kW (355 PS)	10								

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DAIMLER BENZ Cont.							
In-line engine, diesel, 11.6l OM355 176 kW - 207 kW (240-280 PS)	6	128.00	3.00	T CK	KG 1	13012804-00	STD
			2.50	M IFU CR	LG 1		
			4.00	DSF CRP	KG 1		
V-type engine, diesel 11.3l OM 441 Euro 1 OM 441.900/905/909/911/920/92 3/927/932/998	6	130.00	3.00	T CR	KG 1	13013001-00	STD
			3.00	M IWU CR	KG 1		
			4.00	DSF CR	KG 1		
	15.1l	8					
OM 442 Euro 1 OM 442.900/905/911/914/930/93 2/935/939							
18.9l	10						
OM 443.900/905,OM 443							
22.6l	12						
OM 444 OM 444 Euro 1							
In-line engine, diesel, 11.0l OM 441 165 kW (224 PS)	6	130.00	3.00	R CR	KG 1	13013002-00	STD
			3.00	M IWU CR	KG 1		
			4.00	DSF CR	KG 1		
15.0l	8						
OM442 218 kW (296 PS)							
19.0l	10						
OM443 265 kW (360 PS)							



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					



DAIMLER BENZ Cont.

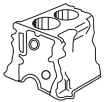

In-line engine, diesel, 11.3IOM 441 Vehicle: 1622, O303,1628, 1726, 1729, 1928, 1929, 2228, 2429, 3239	6	130.00	3.00	T CR	KG 1	13013003-00	STD
			3.00	M IF P	LG 1		
			4.00	DSF CR	KG 1		
18.9l OM443 Vehicle: Stationery engine	V10						
22.6l OM444 Vehicle: Stationery engine	V12						
15.0l OM442 Vehicle: Stationery engine	V8						
In-line engine, diesel, 12.0l OM 501, 541 Vehicle: ACTROS	6	130.00	3.00	T IF CR	KG 1	13013004-00	STD
			3.00	M IWU CR	KG 1		
			4.00	DSFST CR	ST		
In-line engine, diesel, 15.0l OM 522 Vehicle: ACTROS	8						

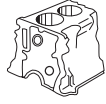

DARVANA

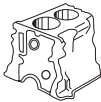

In-line engine, diesel,	1	85.00	3.00	T CR P	KG 1	12908501-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR P	KG 1		
In-line engine, diesel,	1	85.00	2.40	HK CR P	KG 1	12908502-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel,	1	90.00	2.50	R CR	KG 1	12909001-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR P	KG 1		
In-line engine, diesel,	1	95.00	2.50	R IW CR P	KG 1	12909501-00	STD
			2.50	M P	LG 1		
			5.00	DSF CR P	KG 1		

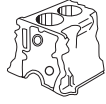

Make - Engine - Model	 No	 Ø mm.	Ring type	Material	Powerseal No	Size	
DAVID BROWN							
In-line engine, fuel, 2.7l AD3/55 Vehicle: 780,880,885,1190,1194	4	100.00	2.38 2.38 2.38 4.76	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	13110001-00 13110001-07 13110001-11	STD + 0.50 + 1.00
3.6l AD4/55 Vehicle: 995,996,1200,1210,1221,1290, 1294,1390,1394	4						
3.6l AD4/55T Vehicle: 1394T,1410,1412,1490,1494	4						
5.4l AD6/55 Vehicle: 1594,1690	6						

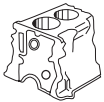

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
DEUTZ								
In-line engine, diesel, F1L 208 D	1	80.00	2.50	R CR	KG 1	13508001-00	STD	
			2.50	M P	LG 1			
			5.00	DSF CR	KG 1			
In-line engine, diesel, 635 ccm F 1 L 410 D	1	90.00	2.50	T CR	KG 1	13509001-00	STD	
			2.50	M IF P	LG 1			
			2.50	M IF P	LG 1			
			5.00	DSF CR	KG 1			
In-line engine, diesel, 1.4l F2M 1011 2.2l F3M 1011F 2.2l BF3M 1011F 2.9l F4M 1011F 2.9l BF4M 1011F	1	91.00	3.00	T CR	KG 1	13509101-00	STD	
			2.00	M P	LG 1			
			3.00	DSF CR	KG 1			
	3						13509101-05	+ 0.25
							13509101-07	+ 0.50
							13509101-11	+ 1.00
	3							
	4							
	4							
	In-line engine, diesel, 1.3l F 2 L 1011 V-type engine, diesel, 2.0l F 3 L 1011 2.7l F 4 L 1011	2	91.00	2.00	R CR	KG 1	13509102-00	STD
2.00				M P	LG 1			
3.00				DSF CR	KG 1			
3							13509102-05	+ 0.25
						13509102-07	+ 0.50	
						13509102-11	+ 1.00	
In-line engine, diesel, 2.8l BF4L 1011E,BF4L 1011T	4	91.00	3.00	T CR	KG 1	13509103-00	STD	
			2.50	M P	LG 1			
			3.50	DSF CR	KG 1			
							13509103-05	+ 0.25
						13509103-07	+ 0.50	
						13509103-11	+ 1.00	
In-line engine, diesel, 698 cm ³ F1L 411D 1.4l F2L 411D	1	92.00	2.50	T CR	KG 1	13509201-00	STD	
			2.50	M IF P	LG 1			
			2.50	NM P	LG 1			
	2			5.00	DSF CR	KG 1		
In-line engine, diesel, 3.2l BF4M 1012 4.8l BF6M 1012	4	94.00	3.00	T CR	KG 1	13509401-00	STD	
			2.00	M IFU P	LG 1			
			3.00	DSF CR	KG 1			
							13509401-05	+ 0.25
							13509401-07	+ 0.50
6						13509401-11	+ 1.00	



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 2.3l BF 3L 2011	3	94.00	2.00	R CR	KG 1	13509402-00	STD
			2.00	M IFU P	LG 1	13509402-05	+ 0.25
			3.00	DSF CR	KG 1	13509402-07	+ 0.50
						13509402-11	+ 1.00
3.1l BF 4L 2011	4						
In-line engine, diesel, 850 cm ³ F1L712 Vehicle : D15 Tractor	1	95.00	2.50	R CR	KG 1	13509501-00	STD
			2.50	M IF P	LG 1	13509501-07	+ 0.50
			2.50	NM P	LG 1	13509501-11	+ 1.00
			5.00	DSF CR	KG 1		
2.5l F3L812D Vehicle: Tractor D40,D4005,D4505	3						
3.4l F4L812 Vehicle: Tractor D50,D5005,D6005	4						
5.1l F6L812 Vehicle: Tractor D8005,D9005,Sirius 90,100	6						
In-line engine, diesel, 850 cc FL210 Vehicle : Type51 Tractor	1	95.00	2.50	R CR	KG 1	13509502-00	STD
			2.55	M IF P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 2.5l F3L 612,F3L 712	3	95.00	2.50	R CR	KG 1	13509503-00	STD
			2.50	M P	LG 1	13509503-07	+ 0.50
			2.50	M P	LG 1	13509503-11	+ 1.00
			5.00	DSF CR	KG 1		
3.4l F4L 612,F4L 712	4		5.00	S P	LG 1		
5.1l F6L 612,F6L 712	6						
In-line engine, diesel, 3.6l D2011 L 4i, TD 2011 L 4i Vehicle: Stationery engine	4	96.00	3.00	T IF CR	KG 1	13509601-00	STD
			2.00	M IFU P	LG 1	13509601-07	+ 0.50
			3.00	DSF CR	KG 1		

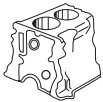

Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
DEUTZ Cont.									
In-line engine, diesel,		96.00	2.00	R CR	KG 1	13509602-00	STD		
			2.00	M IFU P	LG 1			13509602-07	+ 0.50
			3.00	DSF CR	KG 1				
In-line engine, diesel, 3.8l BF4M2013C Vehicle: Stationärmotor	4	98.00	3.00	T CR	KG 1	13509801-00	STD		
			2.00	M IFU P	LG 1				
			3.00	DSF CR	KG 1				
5.7l BF6M2013C, BF6M2013 Vehicle : Stationärmotor	6								
In-line engine, diesel, 3.8l BF4M	4	98.00	3.00	T IW CR	KG 1	13509802-00	STD		
			2.00	M IFU P	LG 1				
			3.00	DSFST CR	ST				
In-line engine, diesel, 5.7l BF6M	6								
In-line engine, diesel, 2.8l F3L912D Vehicle: D4006/A, D4505/A,D4506/A,D5006/A	3	100.00	2.50	T CR	KG 1	13510001-00	STD		
			2.50	M P	LG 1				
			2.50	NM P	LG 1				
			5.00	DSF CR	KG 1				
3.8l F4L912D Vehicle: D7006/A, D7206/A, D7, D8,M80	4								
4.7l F5L912D/W Vehicle: Industrial Engine	5								
5.7l F6L912D Vehicle: D100006/A,D7506/A,D9006/A ,D9009/A	6								

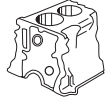

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 1.9l F 2 L 912 D/W Vehicle: D2506, D3006, D2807, D3607, DX36	2	100.00	3.00	T CR	KG 1	13510002-00	STD
			2.50	M P	LG 1	13510002-05	+ 0.25
			2.50	NM P	LG 1	13510002-07	+ 0.50
			5.00	DSF CR	KG 1	13510002-11	+ 1.00
2.8l F 3 L 912 D/W Vehicle: D4006, D4007, D4507, D5207	3						
3.8l F 4 L 912 D/W Vehicle: D5506, D6006, D7007, DX 4.10	4						
4.7l F 5 L 912 D/W	5						
5.6l BF 6 L 912	6						
5.7l F 6 L 912 D/W Vehicle: D7506, DX 6.10, D10006	6						
In-line engine, diesel, 1.9l F 2 L 912 D Vehicle: 2506,2807,3006,3607,DX.36	2	100.00	2.94	T IF CR P	KG 1	13510003-00	STD
			2.55	M IFU P	LG 1	13510003-07	+ 0.50
			5.00	DSF CR	KG 1		
2.9l F 3 L 912 D/W Vehicle: 4006-4007-4505-4506-4507-48 07-5006-5206-5207-DX3.10-3.7	3						
3.7l F 4 L 912 D/W Vehicle: 5006,5506,6006,6007,6206,62 07,6507,6806,6807,7006,7007, 7206,7207,DX3.60-4.10	4						
4.7l F 5 L 912 W/D Vehicle: DX 85-90	5						
5.6l BF-F 6 L 912 D/W Vehicle: 10006-8006-7506-9006-9009-D X110-DX120-INNRACT2005	6						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 1.9l F 2 L 912 D Vehicle: 2506,2807,3006,3607,DX.36	2	100.00	3.00 2.50 5.00	T CR M P DSF CR	KG 1 LG 1 KG 1	13510004-00 13510004-07 13510004-11	STD + 0.50 + 1.00
2.9l F 3 L 912 D/W Vehicle: 4006-4007-4505-4506-4507-48 07-5006-5206-5207-DX3.10-3.7	3						
3.7l F 4 L 912 D/W Vehicle: 5006,5506,6006,6007,6206,62 07,6507,6806,6807,7006,7007, 7206,7207,DX3.60-4.10	4						
4.7l F 5 L 912 W/D Vehicle: DX 85-90	5						
5.6l BF-F 6 L 912 D/W Vehicle: 10006-8006-7506-9006-9009-D X110-DX120-INNRACT2005	6						
In-line engine, diesel, 3.8l F 4 L 912 D Vehicle: D5506, D6006, D7007, DX 4.10	4	100.00	3.00 2.50 3.50	T CR M P DSF CR	KG 1 LG 1 KG 1	13510005-00 13510005-07 13510005-11	STD + 0.50 + 1.00
5.7l F 6 L 912 D Vehicle: D7506, DX 6.10, D10006	6						
In-line engine, diesel, 1.9l F 2 L 912 D Vehicle: Tractor D 2506-D 3006-	2	100.00	3.00 2.00 3.50	T CR M IFU P DSF CR	KG 1 LG 1 KG 1	13510006-00 13510006-07 13510006-11	STD + 0.50 + 1.00
2.8l F 3 L 912 Vehicle: Tractor D 4006/A- D 5206/A - 2002/A	3						
4.7l F 5 L 912 D Vehicle: Traktor D 7506/A-D9009/A	5						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 825 cm ³ F 1 L 511 D	1	100.00	2.94	T IF CR P	KG 1	13510007-00	STD
			2.00	M IFU P	LG 1	13510007-07	+ 0.50
			3.00	DSF CR P	KG 1	13510007-11	+ 1.00
1.7l F 2 L 511 D	2						
2.8l F 3 L 912 D Vehicle: D4006, D4007, D4507, D5207	3						
3.8l F4L 912	4						
4.7l F5L 912	5						
5.6l F6L 912	6						
In-line engine, diesel, 2.0l F 2 L 912 D Vehicle: D 2506, D 3006, D 2807, D 3607, DX 36	2	100.00	2.94	T IF CR P	KG 1	13510008-00	STD
			2.00	M IFU P	LG 1	13510008-07	+ 0.50
			3.50	DSF CR	KG 1	13510008-11	+ 1.00
2.8l F 3 L 912 D Vehicle : D 4006/A, D 4505/A, D 4506/A, D 5006/A, D 5206/A, 2002/A, D 4007, D 4507, D 4897, D 5207, DX 50/55/3.20/ 3.30	3						
3.8l F 4 L 912 D Vehicle: D 5506, D 6006/A, D 6206/A, D 6806/A, D 7006/A, D 7206/A, 2003/A/S, 2004, D 7007, D 7207, DX 4.10/750	4						
4.7l F 5 L 912 D Vehicle : DX 85/90	5						
5.7l F 6 L 912 D Vehicle : D 7506/A, D 8006/A, D 9006/A, D 9009/A, D 10006/A, 2005, DX 6.10/110/120	6						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, F2 / F3 / F4 / F5 / F6 / L 912 D Vehicle: Series M, D, DX	1	100.00	2.94	T IF CR P	KG 1	13510009-00 13510009-07	STD + 0.50
			2.03	M IFU P	LG 1		
			3.50	DSF CR	KG 1		
In-line engine, diesel, 4.0l BF4M2012C, BF4M2012 Vehicle: Tractor	4	101.00	2.50	T IW CR	KG 1	13510101-00 13510101-07	STD + 0.50
			2.00	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
6.0l BF6M2012C Vehicle : Tractor	6						
In-line engine, diesel, 3.1l F 3 L 913	3	102.00	3.00	T CR	KG 1	13510201-00 13510201-07 13510201-11	STD + 0.50 + 1.00
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
4.1l F 4 L 913 Vehicle: Tractor DX4.50/86	4		5.00	DSF CR	KG 1		
6.1l F 6 L 913 Vehicle: DX 3.50, DX 3.90, D 7807 DX 120	6						
In-line engine, diesel, 4.0l BF 4 L 913 Vehicle: DX 4.70 DX 80	4	102.00	3.00	T CR	KG 1	13510202-00 13510202-07 13510202-11	STD + 0.50 + 1.00
			3.00	TM CR	KG 1		
			2.50	NM P	LG 1		
5.00	DSF CR	KG 1					
6.1l BF 6 L 913 Vehicle: DX 145 - 160 DX 6.50-6.65-7.10 HARVESTER	6						
In-line engine, diesel, 3.0l F 3 L 913 DX 3.50 Vehicle: Traktor D3.50	3	102.00	3.00	T CR	KG 1	13510203-00 13510203-07 13510203-11	STD + 0.50 + 1.00
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		
4.1l F 4 L 913 Vehicle: Traktor DXY 80/3.9	4						
6.1l F 6 L 913 Vehicle: DX 3.50, DX 3.90, D 7807, DX 120	6						

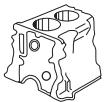

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
DEUTZ Cont.								
In-line engine, diesel, 4.1l BF 4 L 913, 913C Vehicle: Tractor DX 4.70, DX 80, Type 90	4	102.00	3.00	3.00	T CR	KG 1	13510204-00 13510204-07	STD + 0.50
			2.00	3.50	M IFU P DSF CR	LG 1 KG 1		
6.1l BF 6 L 913/C Vehicle: 13006 A, M 30, M 8 FL, M 160 L 81 M 160 M 13 FL	6							
In-line engine, diesel, 4.1l BF 4 L 913, 913 C Vehicle: Tractor DX 4.70, DX 80, type 90	4	102.00	3.00	3.00	T CR	KG 1	13510205-00 13510205-07	STD + 0.50
			3.00	3.50	TM CR DSF CR	KG 1 KG 1		
6.1l BF 6 L 913/C Vehicle: 13006 A, M 30 M 8 FL, M 160 L 81, M 160 M 13 FL, M 168 M 8 FLL	6							
In-line engine, diesel, 6.2l BF6L 913	6	102.00	2.94 3.00 3.00		T CR TM CR DSF CR	KG 1 KG 1 KG 1	13510206-00	STD
In-line engine, diesel, 4.0l F4L 913/MD/H Vehicle: Traktor DXY 80/3.90	4	102.00	3.00	3.00	T CR	KG 1	13510207-00	STD
			2.50	3.50	M P DSF CR	LG 1 KG 1		
6.1l F6L 913 MD/H Vehicle: DX 3.50	6							
In-line engine, diesel, 6.1l BF6 913	6	102.00	3.00 3.00 5.00		T CR TM CR DSF CR	KG 1 KG 1 KG 1	13510208-00	STD
In-line engine, diesel, 6.1l BF6L 913 Vehicle: Stationary engine	6	102.00	2.94 2.00 3.00		T CR M IFU P DSF CR	KG 1 LG 1 KG 1	13510209-00	STD


Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 4.1l DF 4 L 913/C, BF 4 L 913/C Vehicle: Traktor DX 4.70, DX 80, Baureihe 90	4	102.00	2.94	T CR	KG 1	13510210-00	STD
			3.00	TM CR	KG 1		
			3.50	DSF CR	KG 1		
6.2l BF 6 L 913/C Vehicle : 13006 A, M 30 M 8 FL, M 160 L 81, M 160 M 13 FL, M 168 M 8 FLL, DX 4.70, DX 80	6						
In-line engine, diesel, 3.0l F 3 L 913/MD/H Vehicle: Traktor D 3.50, D 6007	3	102.00	2.94	T CR	KG 1	13510211-00	STD
			2.55	M P	LG 1		
			5.00	DSF CR	KG 1		
4.0l F 4 L 913/MD/H Vehicle : Traktor DXY 80/3.90, D 7807	4						
6.0l F 6 L 913/MD/H Vehicle : DX 3.50/ 3.90/ 6.30, D 7807, DX 120	6						
In-line engine, diesel, BF6L 913 FC Vehicle: D 2506, D 7506, D 5206	6	102.00	2.94	T CR	KG 1	13510212-00 13510212-07	STD + 0.50
			3.00	TM CR	KG 1		
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
DEUTZ Cont.								
In-line engine, diesel, 3.0l F 3 L 913	3	102.00	2.94	2.94	T CR	KG 1	13510213-00	STD
			2.50	2.50	M P	LG 1		
			2.50	2.50	NM P	LG 1		
4.0l F 4 L 913, BF 4 L 913 T Vehicle : Traktor DX 4.50/86	4		5.00	5.00	DSF CR	KG 1		
6.0l F 6 L 913, BF 6 L 913 T Vehicle : DX 3.50, DX 3.90, D 7807, DX 120	6							
In-line engine, diesel, 4.0l BF4L 913	4	102.00	2.94	2.94	T IF CR	KG 1	13510214-00	STD
			3.00	3.00	TM CR	KG 1		
			5.00	5.00	DSF CR	KG 1		
6.0l BF6L 913/C	6							
In-line engine, diesel, 4.1l BF 4L 913 T, F 4L 912F	4	102.00	2.94	2.94	T CR	KG 1	13510215-00	STD
			2.55	2.55	M P	LG 1		
			3.50	3.50	DSF CR	KG 1		
5.1l F 5L 912 F	5							
6.1l BF 6L 913 T, F 6L 912 F	6							
In-line engine, diesel, 4.1l BF4L 913	4	102.00	2.94	2.94	T CR	KG 1	13510216-00	STD
			3.00	3.00	M IF P	LG 1		
			3.50	3.50	DSF CR	KG 1		
6.1l DX 4.70, DX 80 BF6L 913 C								
In-line engine, diesel, 4.8l TCD 2013 L4 4V Vehicle: Otokar, Doruk, Vectio	4	108.00	3.00	3.00	T CR	KG 1	13510801-00	STD
			2.00	2.00	M IFU P	LG 1		
			3.50	3.50	DSF CR	KG 1		
7.1l TCD 2013 L6 4V Vehicle: Deutz, Agrottron x 710, Otokar Territo, Otokar Kent	6							



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 1.3l F/A 1 L 514	1	110.00	3.00	R CR	KG 1	13511000-00	STD
			3.00	M P	LG 1	13511000-07	+ 0.50
			3.00	NM P	LG 1	13511000-11	+ 1.00
2.7l F/A 2 L 514	2		6.00	DSF CR	KG 1		
			6.00	D P	LG 1		
4.0l F/A 3 L 514	3						
10.6l F/A 6 L 514/614	6						
V-type engine, diesel, 8.0l F/A 8 L 614	8						
16.0l F/A 12 L 614	12						
V-type engine, diesel, 8.5l F 6 L 413, AL 413	6	120.00	3.00	R IF CR	KG 1	13512001-00	STD
			3.00	M P	LG 1	13512001-05	+ 0.25
			3.00	NM P	LG 1	13512001-07	+ 0.50
			6.00	DSF CR	KG 1	13512001-11	+ 1.00
11.3l F 8 L 413	8						
14.1l F 10 L 413	10						
17.0l F 12 L 413	12						
V-type engine, diesel, 9.5l F/A 6 L 714	6	120.00	3.00	R IF CR	KG 1	13512002-00	STD
			3.00	M P	LG 1	13512002-05	+ 0.25
			3.00	NM P	LG 1	13512002-07	+ 0.50
12.7l F/A 8 L 714	8		6.00	DSF CR	KG 1		
			6.00	G P	LG 1		
15.8l F/A 10 L 714	10						
19.0l F/A 12 L 714 Vehicle: Saturn 145, Pluto 201, 150 FL, 200 FL	12						

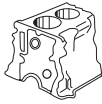

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 8.5l F6L 413L	6	120.00	3.50	T CR	KG 1	13512003-00	STD
			3.00	M P	LG 1		+ 0.50
			3.00	NM P	LG 1		+ 1.00
			6.00	DSF CR	KG 1		
11.3l F8L 413L	8						
In-line engine, diesel, 6.4l F 4 L 413 R, F, FR	4	125.00	3.00	T CR	KG 1	13512501-00	STD
			2.50	M P	LG 1		+ 0.25
			4.00	DSF CR	KG 1		+ 0.50
9.6l F 6 L 413 F, FR, FW, FRW	6					13512501-09	+ 0.75
						13512501-11	+ 1.00
V-type engine, diesel, 13.0l F 8 L 413 F, FW	8						
16.0l F 10 L 413 F, FW	10						
19.0l F 12 L 413 F	12						
In-line engine, diesel, 9.5l BF6L 513	6	125.00	3.50	T CR	KG 1	13512502-00	STD
			2.50	M IW P	LG 1		
			4.00	DSF CR	KG 1		
12.8l BF8L 513	8						
16l BF10L 513	10						
19l BF12L 513	12						
In-line engine, diesel, 9.6l BF6L 513/513C	6	125.00	3.50	T CR	KG 1	13512503-00	STD
			3.00	T CR	KG 1		
			4.00	DSF CR	KG 1		
12.8l BF8L 513/513C	8						
16l BF10L 513/513C	10						
19l BF12L 513/513C	12						




Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
DEUTZ Cont.							
In-line engine, diesel, 12.8l BF8L 413F	8	125.00	3.00	T CR	KG 1	13512504-00	STD
			3.00	M IF P	LG 1		
			4.00	DSF CR	KG 1		
V-type engine, diesel, 10.0l F, BF 6 L 513	6	128.00	3.50	T CR	KG 1	13512800-00	STD
			3.00	M IF P	LG 1	13512800-07	+ 0.50
			4.00	DSF CR	KG 1	13512800-11	+ 1.00
	8						
13.4l F, BF 8 L 513							
16.7l F, BF 10 L 513	10						
20.1l F, BF 12 L 513	12						
In-line engine, diesel, 12.0l BF6M 1015C Vehicle: Topliner	6	132.00	3.50	T IW CR	KG 1	13513201-00	STD
			2.45	R CR	KG 1		
			4.00	DSF CR	KG 1		
16.0l BF8M 1015C	8						
In-line engine, diesel, 15.0lA/BA 6M 816	6	142.00	4.00	T CR	KG 1	13514201-00	STD
			3.00	M P	LG 1		
			6.00	DSF CR	KG 1		
FAP-FAMOS							
In-line engine, diesel, 8.3l FF-1 Vehicle: VFK, FAP 13 FF	6	112.00	3.50	T CR	KG 1	13811201-00	STD
			3.00	M P	LG 1		
			3.50	NM P	LG 1		
			6.00	G P	LG 1		
In-line engine, diesel, 10.0l 4F, 4FU Vehicle: 9GF 4F 3206	6	123.00	3.00	T CR	KG 1	13812301-00	STD
			3.00	M IF P	LG 1		
			3.00	NM P	LG 1		
			6.00	G P	LG 1		
In-line engine, diesel, 11.0l 2 F-B,2 FP-B,2FU-B,2FUP-B Vehicle: LKW, BUS	6	125.00	3.50	T CR	KG 1	13812501-00	STD
			3.00	M IF P	LG 1		
			6.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT							
In-line engine, fuel, 500B/C	52.00	2.50	2.50	R CR	KG 1	14005201-00	STD
			2.50	M P	LG 1	14005201-06	+ 0.40
			3.50	DSF CR	KG 1	14005201-08	+ 0.60
						14005201-10	+ 0.80
						14005201-11	+ 1.00
						14005201-16	+ 2.00
						14005201-23	+ 1.20
						14005201-24	+ 1.40
			14005201-26	+ 1.60			
			14005201-28	+ 1.80			
In-line engine, fuel, 769 cm ³ 600D-600T	4	62.00	2.00	R CR P	KG 1	14006201-00	STD
			2.00	NM P	LG 1	14006201-04	+ 0.20
			3.97	DSF CR P	KG 1	14006201-06	+ 0.40
						14006201-08	+ 0.60
						14006201-10	+ 0.80
			14006201-11	+ 1.00			
In-line engine, fuel, 769 cm ³ 156A4.000 Vehicle: Panda 750 L/CL/Super	4	65.00	1.50	R IF CR P	KG 1	14006501-00	STD
			1.50	M P	LG 1	14006501-06	+ 0.40
			3.00	DSF CR	KG 1	14006501-08	+ 0.60
In-line engine, fuel, 769 cm ³ , M 020 GS.07.0, Vehicle: Panda	4	65.00	1.75	R IF CR	KG 1	14006502-00	STD
			2.00	NM P	LG 1	14006502-04	+ 0.20
			3.94	DSF CR	KG 1	14006502-06	+ 0.40
						14006502-08	+ 0.60
						14006502-11	+ 1.00
843 cm ³ , 100 G 000, 100 G 002, 100 GC 000, 100 GL 6000, Vehicle: 850, 133, Panda	4						
903 cm ³ , 100 GBC 000, 100 GF 000, 100 GL 000, ECE 146 A.000 Vehicle: 850, Spider, 127, Panda, Marbella, Uno 45	4						
In-line engine,diesel, 1.0l 108C Vehicle: 508	4	65.00	2.50	R CR P	KG 1	14006503-00	STD
			2.50	M P	LG 1	14006503-08	+ 0.60
			2.50	NM P	LG 1	14006503-10	+ 0.80
			3.50	S P	LG 1	14006503-11	+ 1.00
						14006503-24	+ 1.40



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT Cont.							
In-line engine, fuel, 0.5l 110 D, 110 F, 110, 120 Vehicle : 500 D, 500 F, 500, 500 Giardinetta, 500 Bianchina, 500 Panoramica	2	67.40	2.00	R CRP	KG 1	14006701-00	STD
			2.00	NM P	LG 1	14006701-06	+ 0.40
			2.00	NM P	LG 1	14006701-08	+ 0.60
			3.96	GSF P	LG 1	14006701-10	+ 0.80
						14006701-11	+ 1.00
In-line engine, fuel, 1.2l 1100R	4	68.00	2.50	R CRP	KG 1	14006801-00	STD
			2.50	NM P	LG 1	14006801-06	+ 0.40
			3.96	DSF CRP	KG 1	14006801-08	+ 0.60
						14006801-10	+ 0.80
						14006801-11	+ 1.00
In-line engine, fuel,	4	68.00	2.00	R CR P	KG 1	14006802-00	STD
			2.00	NM P	LG 1	14006802-06	+ 0.40
			4.00	GSF P	LG 1	14006802-08	+ 0.60
						14006802-11	+ 1.00
In-line engine, diesel, 1.2l 188A8.000 Vehicle : Doblo TD,Idea TD,Panda TD	4	69.60	2.00	R CR	KG 1	14006901-00	STD
			1.50	NM P	KG 2	14006901-06	+ 0.40
			2.00	DSFST CR	ST	14006901-08	+ 0.60
						14006901-10	+ 0.80
In-line engine, diesel, 1.3l 199 B1.000 Vehicle: Fiorino, Punto, Multijet Doblo, Qubo	4	69.60	1.50	R CR	KG 1	14006902-00	STD
			1.50	M P	KG 2	14006902-06	+ 0.40
			2.00	DSFST CR	ST	14006902-08	+ 0.60
In-line engine, fuel, 1.0l 156 A 2.050, 156 A 2.246, 156 A 2.0157, M 204 BS 10.0, M 204 AA.10.0, 156 A 2.000, M 156 A2.000/A3.000, M 204 BA.10.0 Vehicle: Uno 45, Panda, Lancia	4	70.00	1.50	R CR	KG 1	14007001-00	STD
			1.50	M P	LG 1	14007001-06	+ 0.40
			3.00	DSF CR	KG 1	14007001-08	+ 0.60
1.1l 156 A 3.000, 156 C.046, M 204 AA.11.0, 160 A 3000 Vehicle: Panda 1000	4						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, fuel, 1.1l 176 A 6.000 Vehicle: Cinquecento, Panda, Punto	4	70.00	1.20	R CR	ST	14007002-00	STD
			1.20	M P	LG 1	14007002-06	+ 0.40
			2.50	DSF CR	KG 1	14007002-08	+ 0.60
In-line engine, fuel, 1.1l 156A2.050-156A2.246 Vehicle: Uno45, Panda 1000	4	70.00	1.20	R CR	ST	14007003-00	STD
			1.20	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.2l 176B9000, 176 A 8MPI Vehicle: Punto 8516V, Punto 75, Punto 60	4	70.80	1.20	R CR	ST	14007004-00	STD
			1.20	M P	KG 2		
			2.50	DSF CR	KG 1		
In-line engine, fuel, 1.2l 188 A5.000 Vehicle: Bravo, Idea, Palio, Punto, Stilo	4	70.80	1.20	R CR	ST	14007006-00	STD
			1.20	M P	KG 2		
			2.50	SLF CR	ST		
In-line engine, fuel, 1.3l	4	72.00	2.00	R CR	KG 1	14007201-00	STD
			2.00	M P	LG 1		
			3.94	DSF CR P	KG 1		
In-line engine, diesel, 1.4l 169A3.000, 192B2.000 Vehicle: Punto, Panda, Doblo, Fiorino	4	72.00	1.00	R CR	ST	14007202-00	STD
			1.20	NM P	KG 2		
			2.00	DSF ST CR	ST		
In-line engine,diesel, 1.2l 103G/L Vehicle: 1100 D, 1200 GL, 1100 T/T2, 238	4	72.00	2.00	R CR P	KG	14007203-00	STD
			2.00	NM P	LG 1		
			4.00	DSF P	LG 1		
In-line engine, diesel, 1.4l 198.A., 312.A., 955.A.. Vehicle: Punto Evo, Punto Turbo, 500 1.4 Bravo II	4	72.00	1.20	R IF CR P	ST	14007204-00	STD
			1.20	NM P	LG 1		
			2.00	DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
FIAT Cont.								
In-line engine, fuel, 1.2l 124 A 000, 124 BL.016, Vehicle: 124 Berlina, Familiare	4	73.00	1.50	R IF CR	KG 1	14007301-00	STD	
			2.00	M P	LG 1			
			3.94	DSF CR	KG 1			
In-line engine, fuel, 594 cm ³ 126	2	73.50	1.50	R CRP	KG 1	14007302-00	STD	
			2.00	NM P	LG 1	14007302-06	+ 0.40	
			3.94	GSF P	LG 1	14007302-08	+ 0.60	
In-line engine, fuel, 1.1l 131 A.000, 138 A.000 Vehicle: 131, Ritmo 60 1.3l 131 B.000, 131 BC.7A.0 Vehicle: Panorama, 147, Uno 1.3l Vehicle: Panorama, 147	4	76.00	1.50	R CR	KG 1	14007601-00	STD	
			2.00	NM P	LG 1	14007601-02	+ 0.10	
			3.94	DSF CR	KG 1	14007601-04	+ 0.20	
	4	76.00	76.00	1.50	R CR	KG 1	14007601-06	+ 0.40
				2.00	NM P	LG 1	14007601-08	+ 0.60
				3.94	DSF CR	KG 1	14007601-10	+ 0.80
6	76.00	76.00	1.50	R CR	KG 1	14007601-11	+ 1.00	
			2.00	NM P	LG 1			
			3.94	DSF CR	KG 1			
In-line engine, diesel, 1.3l 127 A 5000, M 703 AA.13.0 Vehicle: 127 D, Uno D, Panda, Spazio (Arg)	4	76.00	2.50	T CR	KG 1	14007602-00	STD	
			2.00	M P	LG 1	14007602-06	+ 0.40	
			3.00	DSF CR P	KG 1	14007602-08	+ 0.60	
In-line engine, fuel, 1.3l Palio 1.3	4	76.00	1.50	R CR	KG 1	14007603-00	STD	
			1.50	M IWU P	LG 1	14007603-04	+ 0.20	
			3.00	DSF CR	KG 1	14007603-06	+ 0.40	
						14007603-08	+ 0.60	
						14007603-10	+ 0.80	
			14007603-11	+ 1.00				
In-line engine, fuel, 1.5l 115 C 000	4	77.00	2.00	R CR	KG 1	14007700-00	STD	
			2.00	NM P	LG 1	14007700-08	+ 0.60	
			3.94	DSF CR	KG 1	14007700-11	+ 1.00	
In-line engine, fuel, 0.6l Panda 30 CL, 126 Personel	2	77.00	1.50	R IF CR	KG 1	14007701-00	STD	
			2.00	NM P	LG 1	14007701-06	+ 0.40	
			3.94	DSF CR	KG 1	14007701-08	+ 0.60	
						14007701-10	+ 0.80	
						14007701-11	+ 1.00	



Make - Engine - Model	 No	 Ø mm.		Ring type	Material	Powerseal No	Size
FIAT Cont.							
In-line engine, fuel, 0.65l 128 A 1.0, 141 A Vehicle : 126 , Panda 30	4	77.00	1.50	R IF CRP	KG 1	14007702-00	STD
			2.00	NM P	LG 1	14007702-06	+ 0.40
			3.94	GSF P	LG 1	14007702-08	+ 0.60
						14007702-10	+ 0.80
						14007702-11	+ 1.00
In-line engine, diesel, 1.4l M709BT.13.0 Vehicle: Uno TD	4	78.00	2.50	T CR P	KG 1	14007801-00	STD
			2.00	M IWU P	LG 1		
			3.00	DSF CR P	KG 1		
In-line engine, diesel, 1500 Familiare, Multicarga 1600 Berlina , Sport	4	78.00	2.00	R CR	KG 1	14007802-00	STD
			2.00	M P	LG 1		
			3.94	DSF CR	KG 1		
In-line engine, diesel,		78.00	2.00	R CR	KG 1	14007803-00	STD
			2.00	M IF P	LG 1		
			2.00	NM P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 1.6l 198.A3, 198.A6, 199.B5, 263.A4 Vehicle: Bravo II, Doblo, Linea, 500 L	4	79.50	1.50	R CR	KG 1	14007901-00	STD
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 1.6l 198.A2-A3-A6, 263.A4, 350.A2, 955.A3 Vehicle: Linea, Bravo, Doblo, Idea, Grande Punto, Punto Evo	4	79.50	2.00	R CR	KG 1	14007902-00	STD
			1.75	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 1.1l 128 A.000, 128 A.064 128 AC 5.000 138 A.000, 138 B.000 138 AE.0A.0 Vehicle: 128, 101, 1100 (Export) Ritmo 60, Uno 55 Ritmo Strada (USA) 03/69	4	80.00	1.50	R CR	KG 1	14008001-00	STD
			2.00	NM P	LG 1		
			3.94	DSF CR	KG 1		
						14008001-06	+ 0.40



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT Cont.							
In-line engine, fuel, 1.1l 128 A.000, 128 A.064 128 AC 5.000 Vehicle: 128, 101, 1100 (Export) Ritmo 60, Uno 55 128 S.Coupe	4	80.00	1.50	R CR	KG 1	14008002-00 14008002-06	STD + 0.40
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l 182B6.000 Euro 3 Vehicle: Brava 1.6, Doblo 1.6, Palio 1.6,Stilo 1.6	4	80.50	1.20	R CR	ST	14008003-00 14008003-06	STD + 0.40
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.3l M 605FB,13 C 014 Vehicle: Uno S-SX	4	80.50	1.50	R CR P	KG 1	14008004-00 14008004-02 14008004-06 14008004-08 14008004-10 14008004-26	STD + 0.10 + 0.40 + 0.60 + 0.80 + 1.60
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.4l M 603 BT.13.0 Vehicle: Uno Turbo	4	80.50	1.50	R CR	KG 1	14008005-00 14008005-06	STD + 0.40
			2.00	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel,		80.00	2.00	R IF CR P	KG 1	14008006-00	STD
			2.00	M IF P	LG 1		
			5.00	DSF CR P	KG 1		
In-line engine, fuel, 1.1l 128 A.000, 128 A.064 128 AC 5.000 138 A.000, 138 B.000 138 AE.0A.0 Vehicle: 128, 101, 1100 (Export) Ritmo 60, Uno 55 Ritmo Strada (USA) 03/69	4	81.00	1.50	R CR	KG 1	14008101-00	STD
			2.00	M P	LG 1		
			3.94	DSF CR	KG 1		
In-line engine, diesel, 1.9l 149 A 1000, 160 A 7000, M 705 FA.19010, 149 B 1000, 831 D 1000, M 707 CT.190 Vehicle: Regata DS, Tempra, Tipo, Cromo, Ritmo Turbo DS	4	82.60	2.50	T CR	KG 1	14008201-00 14008201-06 14008201-10 14008201-11 14008201-24	STD + 0.40 + 0.80 + 1.00 + 1.40
			2.00	M P	LG 1		
			4.00	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT Cont.							
In-line engine, fuel, 1.4l M 634 AA,182 A 3.00 Bravo,Brava	4	82.00	1.50	R CR	KG 1	14008202-00 14008202-06	STD + 0.40
			1.50	M P	LG 1		
			3.00	DSF CR	KG 1		
2.0l 182 A1 Vehicle: Bravo 2.0i HGT 20V, Marea 2.0i 20V HLX/W.E,Coupé 2.0i 20V	5						
In-line engine, diesel, 1.9l M707 AT.19.0 M710 AT.19.0 TCA 160 A 6.000 59-67 kW (80-92 PS) Vehicle: Regata TD, Tipo TD, Ritmo TD, Tempra TD	4	82.60	3.00	T CR	KG 1	14008203-00 14008203-06 14008203-08	STD + 0.40 + 0.60
			2.00	M IWU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l 182A8/A7+B4, M720 AT19T Vehicle: Bravo 1,9 TD , Marea 1,9 TD Multipla 105 JTD	4	82.00	3.00	T CR	KG 1	14008204-00	STD
			2.00	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l 175 A3000, M648 FT19T Vehicle: Coupé 2.0 i.e 20V Turbo	5	82.00	1.20	R CR	ST	14008205-00 14008205-06	STD + 0.40
			1.50	M IWU P	LG 1		
			3.00	DSF CR P	KG 1		
In-line engine, diesel, 1.7l M708.FA.17 Vehicle: Fiorino, Uno, Tipo	4	82.60	2.50	T CR	KG 1	14008206-00 14008206-06 14008206-08	STD + 0.40 + 0.60
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l M724 NT 19.1 Vehicle: Doblo 1.9,Brava 1.9 JTD Marea 19 JTD, Punto 1.9 JTD, Stilo JTD	4	82.00	2.00	R CR	KG 1	14008207-00 14008207-06 14008207-08 14008207-10	STD + 0,40 + 0,60 + 0.80
			2.00	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.4l 839.A600 Vehicle: Stilo 2.4 JTD	5	82.00	2.50	R CR	KG 1	14008208-00	STD
			2.00	NM P	LG 1		
			2.00	DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, fuel, 2.0l 182B7.000 Vehicle: Brava, Marea	5	82.00	1.20	R CR	ST	14008209-00	STD
			1.20	M IFU P	KG 2	14008209-06	+ 0.40
			2.00	SLF CR	ST	14008209-08	+ 0.60
In-line engine, diesel,	4	82.00	2.00	R CR P	KG 1	14008210-00	STD
			2.00	NM P	LG 1	14008210-07	+ 0.50
			4.00	GSF P	LG 1		
In-line engine, diesel, 1.9l XUD 9 TE Vehicle: Ulysse 1.9 TD, Scudo 1.9 TD	4	83.00	3.50	T CR	KG 1	14008300-00	STD
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l DHX 9 TD Vehicle: Ulysse 1.9 TD,Ducato,Scudo	4	83.00	3.00	T CR	KG 1	14008301-00	STD
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l XUD9A, XUD9B Vehicle: Scudo 1.9D EL	4	83.00	2.00	R CR	KG 1	14008302-00	STD
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.7l 138B 6.000 Vehicle: Regata DS, Ritmo D, Strada D	4	83.00	2.50	T CR	KG 1	14008303-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.4l 192 A 2.000, M649; HA 24.V025. Vehicle: Stilo	5	83.00	1.20	R IF CR P	ST	14008304-00	STD
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.8l XU7 JP4, LFW, XU7 JPZ Vehicle: Ulysse 1.8i, Scudo	4	83.00	1.50	R CR	KG 1	14008305-00	STD
			1.50	NM P	LG 1		
			3.00	SLF CR	ST		
In-line engine, diesel, 2.0l 198 A5, 250 A1, 263 A1, 939 B5, 940 A5, D20AA Vehicle: Bravo II, Ducato, Doblo, Freemont, Sedici	4	83.00	1.50	R CR P	KG 1	14008306-00	STD
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT Cont.							
In-line engine, fuel, 1.6l 131B, 131C, 132C, 132D, 154A, 834B, M601, M834 Vehicle: 131, 132 Argenta, Cromo, Cromo Turbo	4	84.00	1.50	R IF CR	KG 1	14008401-00	STD
			2.00	NM P	LG 1	14008401-02	+ 0.10
			3.94	DSF CR	KG 1	14008401-04	+ 0.20
						14008401-06	+ 0.40
						14008401-08	+ 0.60
2.0l M601, M834 Vehicle: 131, 132, Argenta, Lancia, Thema	4					14008401-10	+ 0.80
						14008401-11	+ 1.00
In-line engine, fuel, 1.6l M 402 AA.16.0, 131 B 1.000, 131 C 2.000, 138 AR 000 Vehicle: Argenta, 131, 132, Regata	4	84.00	1.50	R CR	KG 1	14008402-00	STD
			1.50	NM P	LG 1	14008402-06	+ 0.40
			3.00	DSF CR	KG 1		
1.8l M610 LA Vehicle: Tipo 1.8 i.e, Tempra 1.8 i.e	4						
2.0l M615, M610 Vehicle: Croma 2000 i.e, Tipo 2.0 i.e, Tempra 2.0 i.e	4						
In-line engine, fuel, 1.6l 131B, 131C, 132C, 132D, 154A, 834B, M601, M834 Vehicle: 131, 132 Argenta, Cromo, Cromo Turbo	4	84.00	1.50	R IF CR	KG 1	14008403-00	STD
			2.00	NM P	LG 1	14008403-06	+ 0.40
			3.94	SLF CR	ST	14008403-08	+ 0.60
In-line engine, diesel, 1.1l 614-615 211R-221R-411R-411C-441R	4	85.00	3.00	R CR	KG 1	14008501-00	STD
			3.00	M IF P	LG 1	14008501-08	+ 0.60
			3.00	NM P	LG 1		
			5.50	DSF CR P	KG 1		
In-line engine, diesel, 2.2l RHX, RHV, RHW, RHZ, 4 HW Vehicle : Ulysee 2,2 JTD	4	85.00	3.50	T CR	KG 1	14008502-00	STD
			2.00	M IF P	LG 1	14008502-08	+ 0.60
			3.00	DSF CR	KG 1		
2.0l RHX, RHV, RHW, RHZ, 4 HW Vehicle : Scudo, Ducato, Ulysee, 2,0 JTD	4						

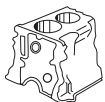

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT Cont.							
In-line engine, diesel, 2.0l RH02, RHH Vehicle: Scudo	4	85.00	2.00	HK CR	KG 1	14008503-00	STD
			2.00	M IFU P	LG 1	14008503-07	+ 0.50
			2.00	DSFST CR	ST		
In-line engine, fuel, 1.3l 138 A 3.000, 149 A 3.000 , 138 B 2.000, 149 A 7.000 Vehicle: 128, Ritmo, X 1/9, Uno, Regata, Lancia	4	86.40	1.50	R CR	KG 1	14008600-00	STD
			2.00	NM P	LG 1	14008600-04	+ 0.20
			3.94	DSF CR P	KG 1	14008600-06	+ 0.40
						14008600-08	+ 0.60
						14008600-10	+ 0.80
			14008600-11	+ 1.00			
In-line engine, fuel, 1.6l 159A3.000 Vehicle: Tempra 1.6/i.e/S/SX,Tempra 1.6 SW,Tipo 1600 i.e	4	86.40	1.50	R IW CR P	KG 1	14008601-00	STD
			1.75	NM P	LG 1	14008601-02	+ 0.10
			3.00	DSF CR P	KG 1	14008601-04	+ 0.20
						14008601-06	+ 0.40
						14008601-08	+ 0.60
			14008601-10	+ 0.80			
			14008601-11	+ 1.00			
In-line engine, fuel, 1.3l 128 A 1.000, 128 AR 000 128 AC 000, 128 AS 000 Vehicle: 128, X 1/9	4	86.00	1.50	R CR	KG 1	14008602-00	STD
			2.00	M IF P	LG 1	14008602-06	+ 0.40
			3.94	DSF CR	KG 1	14008602-08	+ 0.60
						14008602-10	+ 0.80
In-line engine, fuel, 1.6l 182A4.000 Vehicle: Bravo, Brava	4	86.40	1.50	R IF CR	KG 1	14008603-00	STD
			1.50	M IWU P	LG 1	14008603-04	+ 0.20
			3.00	DSF CR	KG 1	14008603-06	+ 0.40
						14008603-08	+ 0.60
						14008603-10	+ 0.80
			14008603-11	+ 1.00			
In-line engine, diesel, 2.0l 2000CM Vehicle: Dino	6	86.00	1.50	R CR	KG 1	14008604-00	STD
			1.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l 159A3.000, M202PB15.0 Vehicle: Punto, Tipo, Tempra, Scudo	4	86.40	1.50	R IW CR P	KG 1	14008605-00	STD
			1.75	NM P	LG 1		
			3.00	SLF CR	ST		
In-line engine, diesel, 2.0l 8144.65.200/300 Vehicle: 131 D 2000,132 D 2000	4	88.00	2.00	R CR	KG 1	14008801-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size				
	No	Ø mm.									
FIAT Cont.											
In-line engine, diesel, 2.3l F1AE0481C Vehicle : Ducato 2.3 JTD	4	88.00	2.50	T CR	KG 1	14008802-00	STD				
			2.00	M P	LG 1	14008802-06	+ 0.40				
			2.50	DSF CR	KG 1	14008802-08	+ 0.60				
In-line engine, diesel, 2.3l F1AE3481D, F1AE3481E, F1AE3481G Vehicle: DUCATO (250) 100 Multijet 2,3 D, DUCATO (250) 130 Multijet 2,3 D, DUCATO (250) 150 Multijet 2,3 D	4	88.00	1.75	R IF CR	KG 1	14008803-00	STD				
			1.50	M P	LG 1						
			2.00	DSFST CR	ST						
In-line engine, diesel, 2.3l F1AE348D, E, G Vehicle: DUCATO, DAILY	4	88.00	2.50	HKM CR	KG 1	14008804-00	STD				
			2.00	M P	LG 1						
			2.50	DSFST CR	ST						
In-line engine, diesel, 2.4l 8140.21, 8144.21 Vehicle: Ducato 14/18 2.5l 8140.27.2700 Vehicle: Daily, Ducato	4	93.00	3.00	T CR	KG 1	14009301-00	STD				
			2.00	M P	LG 1	14009301-05	+ 0.25				
			3.00	DSF CR	KG 1	14009301-06	+ 0.40				
	4	93.00	3.00	2.00	M P	LG 1	14009301-08	+ 0.60			
							3.00	DSF CR P	KG 1	14009302-05	+ 0.25
							3.00	DSF CR P	KG 1	14009302-06	+ 0.40
In-line engine, diesel, 2.5l 8140.67 Vehicle: Croma D, Ducato 14-18	4	93.00	3.00	R CR P	KG 1	14009302-07	+ 0.50				
						14009302-08	+ 0.60				
						2.00	M P	LG 1	14009303-00	STD	
						4.00	DSF CR	KG 1	14009303-06	+ 0.40	
In-line engine, diesel, 2.4l 8140.61, 8142.61, 8144.61 Vehicle: 30 F 8, 32 F 8, 35 F 8, 40 F 8 Daily, 238 E, 900 T 131 D, 132 D, Argenta D	4	93.00	3.00	R CR	KG 1	14009303-07	+ 0.50				
						14009303-08	+ 0.60				
						2.00	M P	LG 1	14009401-00	STD	
						3.00	DSF CR	KG 1	14009401-06	+ 0.40	
In-line engine, diesel, 2.8l 8140.23 Vehicle: Ducato, Daily	4	94.40	3.00	T CR	KG 1	14009401-08	+ 0.60				
			2.00	M IWU P	LG 1	14009402-00	STD				
			3.00	DSF CR	KG 1	14009402-06	+ 0.40				
In-line engine, diesel, 2.8l 8140 Vehicle: Ducato JTD	4	94.40	2.50	T CR	KG 1	14009402-08	+ 0.60				
			2.00	M P	LG 1	14009402-00	STD				
			2.50	DSF CR	KG 1	14009402-06	+ 0.40				



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT Cont.							
In-line engine, diesel, 2.8l 8140.63.2200 Vehicle: Ducato 2.8D, Maxi 2.8D	4	94.40	3.00	T CR	KG 1	14009403-00	STD
			2.00	NM P	LG 1	14009403-06	+ 0.40
			2.50	DSF CR	KG 1	14009403-08	+ 0.60
In-line engine, diesel, 3.2l F32 AM, GE, MNS, MNSX, MNT, MNTX Euro 3	4	99.00	2.50	T CR	KG 1	14009901-00	STD
			2.00	M P	LG 1	14009901-06	+ 0.40
			2.50	DSFST CR	ST		
FIAT - IVECO							
In-line engine, diesel, 339 cm ³ 803/A8030.01 Vehicle: 612 NE,616 N2/N3	2	95.00	2.50	R CR	KG 1	14109501-00	STD
			2.50	NM P	LG 1	14109501-06	+ 0.40
			5.50	DSF CR	KG 1	14109501-08	+ 0.60
2.7l 230A.000 Vehicle: 616N,625N	3						
2.8l 804A/8040.01 Vehicle: 616 N1/2/4,625 N1/N2,Orsette	4						
4.7l 806A/8060.01 Vehicle: 645 N1/N2,650 N1/N2,655N,663 N1/N2,672N,662N1/N2,416A	6						
In-line engine, diesel, 3.0l F1 CE 041 A, EURO 4, R4 Vehicle: Daily IV	4	95.80	2.50	T CR	KG 1	14109502-00	STD
			2.00	M P	LG 1	14109502-06	+ 0.40
			2.50	DSF CR	KG 1		
In-line engine, diesel, 3.0l F1CE3481M Vehicle: Ducato	4	95.80	2.50	HK CR	KG 1	14109503-00	STD
			2.00	M P	LG 1		
			2.50	DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 2.6l 8030.02 Vehicle: 616 N3	3	100.00	2.50	R CR	KG 1	14110001-00	STD
			2.50	M P	LG 1	14110001-06	+ 0.40
			5.50	DSF CR	KG 1	14110001-08	+ 0.60
5.2l 8060.12 Vehicle: 645 N3,640 N3,75/90PC(4*4) 80,90,100,11 0NC/NR/P/R, 655N1,672N OEM: 1909172	6						
In-line engine, diesel, 3.5l 8040.02 Vehicle: 50,55,65,70,75NC,65PC(4*4),6 16,616 N3/4,625N3,40/35NC, 50Al,Orsette	6	100.00	2.50	R CR	KG 1	14110002-00	STD
			2.50	M P	LG 1	14110002-06	+ 0.40
			4.00	DSF CR	KG 1	14110002-08	+ 0.60
5.2l 8060.02 Vehicle: 645 N3,650 N3,662N3,75/90 PC(4*4),80,90,100,110NC/NR/P/R 655N1,672N OEM: 1930169	6						
In-line engine, diesel, 5.5l 8065.06.230 Vehicle : Tractor	6	100.00	3.00	T CR	KG 1	14110003-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 4.0l F4AE0481 A Tector E17, C Tector E15, D Tector E13 Vehicle: Eurocargo, Tector NEF	4	102.00	3.00	T CR	KG 1	14110201-00	STD
			2.38	M IFU P	LG 1	14110201-07	+ 0.50
			4.00	DSF CR	KG 1	14110201-11	+ 1.00
6.0l F4AE0681 A Tector E28, B Tector E24, D Tector E21,E Tector E18 Vehicle: Eurocargo, Tector NEF	6						
In-line engine, diesel, 360 Excavator OEM: 8094692		102.00	3.00	T CR	KG 1	14110202-00	STD
			3.00	TM IW P	LG 1	14110202-07	+ 0.50
			4.00	DSF CR	KG 1		


Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
FIAT - IVECO Cont.									
In-line engine, diesel, 2.7l 8031.04 , 8035.04 , F L 4, Vehicle: TRACTOR 505 F L 4, TRACTOR 505	3	103.00	2.50	R CR	KG 1	14110300-00	STD		
			2.50	M P	LG 1	14110300-06	+ 0.40		
			4.00	DSF CR	KG 1	14110300-08	+ 0.60		
3.7l 8040.04.200 8041.04 Vehicle: TRACTOR 766	4								
4.6l 8055.04.200 Vehicle: TRACTOR 880	5								
V-type engine, diesel, 5.5l 8060.04 8060.24 Vehicle: TRACTOR 1000S OEM: 1909234, 1901278, 1901392	6								
In-line engine, diesel, 5.5l 8060.25/8062.24/8065.24,1280 Vehicle: 80.16, 115.17, 135.17 OEM: 1909706	6	103.00	3.00	T CR	KG 1	14110301-00	STD		
			2.50	M P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, diesel, 2.9l 8030.05, 8035.05.000 Vehicle: 60.65	4	104.00	2.50	R CR	KG 1	14110401-00	STD		
			2.50	NM P	LG 1			14110401-06	+ 0.40
			4.00	DSF CR	KG 1			14110401-08	+ 0.60
3.9l 8040.05, 8045.05.000 Vehicle: 50-65, 80-90	4								
4.9l 8050.05, 8055.05.000 Vehicle: 90.90	5								
5.9l 8060.05.000, 8065.05.000 Vehicle: 79.14 OEM: 1900191, 1930186, 1930191, 1902421	6								



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 3.9l 8040.25 Vehicle: Eurocargo Turbo 60 E 10,65 E10,65 E 12,75 E,60.11,65.12,79.12	4	104.00	3.00	T CR	KG 1	14110402-00	STD
			2.50	M P	LG 1	14110402-06	+ 0.40
			4.00	DSF CR	KG 1	14110402-08	+ 0.60
5.9l 8065.25 Vehicle: 80,110,115,135,145.17, Eurocargo Turbo 80 E 15, 100 E 15 OEM: 1930209, 1930841, 1902461	6						
In-line engine, diesel, 3.6l 8040.05.200.203.230.233.235 Vehicle: Eurocargo 5.4l 8060.05.200.201.203.205. 2206.246 Vehicle: Eurocargo OEM: 1904678, 1908677, 1908162	4	104.00	3.50	T CR	KG 1	14110403-00	STD
			2.50	NM P	LG 1	14110403-06	+ 0.40
			4.00	DSF CR	KG 1		
In-line engine, diesel, 3.0l 8035.05.000 Vehicle: Tractor 60.65, 60.66, 60.90, FL 4 3.9l 8045.05.000 Vehicle: 80.65/66, 80.90, 85.95, FL 4, FL-FD 5,FR-FB-FL-FD 7, FR 9/10, FE 12 4.9l 8055.05.000 Vehicle: 90.90, 95.55 5.9l 8065.05.000 Vehicle: 115.90, FD 7, FL 7	3	104.00	2.50	R CR	KG 1	14110404-00	STD
			2.50	NM P	LG 1		
			5.50	DSF CR	KG 1		
	4						
	5						
	6						



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
FIAT - IVECO Cont.								
In-line engine, diesel, 4.5l NEF45, NEF67, N45 ENT Euro3, N45 MNT, MNS, MSS, MST Euro3 Vehicle:	4	104.00	3.00	T CR	KG 1	14110405-00	STD	
			2.38	M IFU P	LG 1	14110405-06	+ 0.40	
			4.00	DSF CR	KG 1	14110405-08	+ 0.60	
						14110405-10	+ 0.80	
6.7l NEF67 SM1, TM3, N67 ENT, MNT Euro 3 Vehicle:	6							
In-line engine, diesel, 3.0l 8030.005, 8035.05 Vehicle: FL 4	3	104.00	2.50	R IF CR P	KG 1	14110406-00	STD	
			2.50	NM P	LG 1	14110406-07	+ 0.60	
			4.00	DSF CR	KG 1	14110406-08	+ 0.80	
	4							
4.0l 8040.05, 8045.05 Vehicle: FL/FD 5, FB/FD/FL/FR 7								
5.0l 8050.05, 8055.05	5							
In-line engine, diesel, 4.0l 8040.25, 8045.25 Vehicle: 60.11, 65.11, 65.12, 75.12, 79.12	4	104.00	3.00	T CR	KG 1	14110407-00	STD	
			2.50	M IWU P	KG 1	14110407-08	+ 0.60	
			4.00	DSF CR P	KG 1			
	6.0l 8060.25, 8065.25 Vehicle: 145.17, 75 PC, 75 PM, 79.13, 90 PC, 80 E 18 Eurocargo OEM: 1931019	6						
In-line engine, diesel, Vehicle: Tigrotto, Leoncino CO2D Someca Som 511/612	4	108.00	2.50	R CR	KG 1	14110800-00	STD	
			2.50	M P	LG 1			
			2.50	M P	LG 1			
			2.50	NM P	LG 1			
			5.00	DSF CR	KG 1			
			5.00	D P	LG 1			



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 4.9l C03/100/70/41/2 Vehicle: OM,55,60,65,70,75,80,90,329,329 Bus,Tigrote 50,55,65	4	110.00	2.50 2.50 2.50 5.00	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	14111001-00	STD
4.6l C03/020/021/41 Vehicle: Cerbiatto 25/30N,L,20,Lupetto 20/25/30,Daino 40/45,Leoncino 35	4						
7.4l CP3 Vehicle: 130 NC,NT,NR,AI,673 N,T,NR,Bus U 150, S150 OEM: 1909236, 1901481	6						
In-line engine, diesel, 7.4l CN 3 CP 3 Vehicle: Tiggorotto 50,55,MK55 Tractor 650-850	6	110.00	2.50 2.50 2.50 5.00 5.00	R CR M P NM P DSF CR G P	KG 1 LG 1 LG 1 KG 1 LG 1	14111002-00	STD
In-line engine, diesel, 7.7l 8360.46 Vehicle: Eurocargo, 8360.46	6	112.00	3.50 2.50 4.00	T CR M P DSF CR	KG 1 LG 1 KG 1	14111201-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 4.5l 8340.04-06.000 Vehicle: Series 50-60-70-80	4	115.00	2.50	R CR	KG 1	14111501-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
5.4l 8340.05.000 Vehicle: CO 3/130 FL9	4						
6.9l 8360.04.000 Vehicle: Series 120-140-150	6						
V-type engine, diesel, 8.0l 8360.05.673 Vehicle: Series 140-160-150	6						
OEM: 1901487							
In-line engine, diesel, 8.1l 8365.25.500 Vehicle: Tractor,1580,1880,160-90,180- 90,FR 15/20/158,FG85/95	4	115.00	3.00	T CR	KG 1	14111502-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
OEM: 1930753							
In-line engine, diesel, 5.4l CO 3/130, 8340.05.000 Vehicle: FL9, Tractor co 3-130t, 1977	4	115.00	2.50	R CR	KG 1	14111503-00	STD
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		
8.1l 8360.05.000, 8361.01/05, 8365.05.500 Vehicle : 140/150/159, 1979	6						
In-line engine, diesel, 7.8l F2B Cursor 8 Euro 2-3 Vehicle: EuroMover, EuroTech, EuroTrakker	6	115.00	3.00	T CR	KG 1	14111504-00	STD
			2.50	M IFU CR P	KG 1		
			4.00	DSF CR	KG 1		
OEM: 2991522							



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 7.8l F2B, CNG Euro 5 Vehicle: Urbino 12, 15, 18 CNG OEM: 2995640	6	115.00	3.00	T CR	KG 1	14111505-00	STD
			2.50	M IWU CR P	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 8.0l F2BE0681B, F2BE0681E, F2BE3681C, Euro 4/5 Vehicle: Trakker, Stralis OEM: 2996412	6	115.00	2.00	T CR P	KG 1	14111506-00	STD
			1.50	NM IFU P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 8.0l F2BE0681B, F2BE0681E, F2BE3681C Euro 4/5 5 Vehicle: 180E, 190E,	6	115.00	3.00	T IW CR	KG 1	14111507-00	STD
			2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 9,0l F2CE9687 - CURSOR 9 D.117 OEM: 2996573	6	117.00	3.00	T CR P	KG 1	14111701-00	STD
			2.50	NM IFU P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 8,7l F2CFE611 Euro6 Vehicle: Crossway, Stralis I, II, S-WAY	6	117.00	3.00	T IF CR P	KG 1	14111702-00	STD
			2.50	NM IFU P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 9.5l 8460.21.002.042.102.202.206.41 Vehicle: LKW, Bus 480, Bus 680	6	120.00	3.50	T CR	KG 1	14112001-00	STD
			3.00	M IF CR	KG 1		
			5.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 9.8l 8200.02 Vehicle: 648N/NP,684T,690N4,331A, Bus 308,309A,331A,343,409A	6	122.00	3.50 3.00 3.00 5.50	T CR M P M P DSF CR	KG 1 LG 1 LG 1 KG 1	14112200-00	STD
9.8l 8200.12 Vehicle: 418AL/AC,420A OEM: 1900459, 1900148	6						
In-line engine, diesel, 9.6l 8220.22 Vehicle: 165.24,180.24	6	125.00	4.00 3.00 3.00 4.00	T CR M IF P M IF P DSF CR	KG 1 LG 1 LG 1 KG 1	14112501-00	STD
9.6l 8220.32 Vehicle: 671.24,Effeuno Turbo,Bus 471.24,370.24,671.24,Portesi P901,9.70	6						
In-line engine, diesel, 9.8l 8200.03 Vehicle: 160 NC/NT/R,684 T 9.2 Ton,Bus,308/L,343R/ T,418 AC/AL/A	6	125.00	3.50 3.00 3.00 5.50	T CR M IF P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	14112502-00	STD
In-line engine, diesel, 9.6l 8220.02/12, 16524 Vehicle: 150.20, 130.20, 190.20	6	125.00	3.00 3.00 4.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	14112503-00	STD
In-line engine, diesel, R604.031 Vehicle: Tractor 70 C/R, 80 C/R	4	125.00	3.50 3.00 3.00	R CR M IF P M IF P	KG 1 LG 1 LG 1	14112504-00	STD
R604.031 Vehicle: Truck 682 N2/T2/RN2, BUS UM	6		3.00 5.50 5.50	NM P DSF P D P	LG 1 LG 1 LG 1		
In-line engine, diesel, 10.3l F3AE3681D Vehicle: Trucks 440S42 OEM: 2996143	6	125.00	2.50 3.00 4.00	T CR P NM IWU P DSF CR	KG 1 LG 1 KG 1	14112505-00	STD




Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 10,1l F3A TCA, F3AE0681D, F3AE0681E, F3AE0681B, F3AE0681H Vehicle: EuroTech OEM: 2991781	6	125.00	3.50 3.00 4.00	T CR NM IWU P DSF CR	KG 1 LG 1 KG 1	14112506-00	STD
In-line engine, diesel, 11,1l CURSOR 11, F3GFE611A Euro6 Vehicle: Stralis I, II	6	128.00	3.00 2.50 4.00	TM IF CR P M IFU P DSF CR P	KG 1 LG 1 KG 1	14112801-00	STD
In-line engine, diesel, 11.5l 203A/61-221.000 Vehicle: 682 N3/T3/N4/T4,690 N1/A/B/N2/N3 OEM: 60258/1801484	6	130.00	4.00 3.00 3.00 5.50	T CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	14113001-00	STD
In-line engine, diesel, 12.9l F3BE0681A,B,C,D,E,F,G Vehicle: 190548, 190T44, 260S48, 340T38 OEM: 2992157	6	135.00	4.00 3.00 5.00	T CR NM IWU CR DSF CR	KG 1 KG 1 KG 1	14113501-00	STD
In-line engine, diesel, 13,0l F3BE3681 Vehicle: 260S50, 190S50, 190T44 OEM: 2996174	6	135.00	3.00 3.00 5.00	T CR P NM IWU CR DSF CR	KG 1 KG 1 KG 1	14113502-00	STD
In-line engine, diesel, 13.8l 8210.02 Vehicle: 619 N1/T1,690N4/T4,180.26,190. 26T,190.PC 26,190.PAC 26,320.35PC 13.8l 8210.12 Vehicle: Bus 421 A/AL,370 L/N/T/GT,370.12.L.25/26 OEM: 1901452, 1901457, 1901852, 1908625	6	137.00	4.00 3.00 3.00 5.50	T CR R IF CR R IF CR DSF CR	KG 1 KG 1 KG 1 KG 1	14113701-00	STD



















Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FIAT - IVECO Cont.							
In-line engine, diesel, 13.8l 8210.42.101 Vehicle: 190.36, 240.36, 330.36 340.36, TurboStar OEM: 1902583, 1902695, 1908628	6	137.00	4.00 3.00 5.50	T CR R IF CR DSF CR	KG 1 KG 1 KG 1	14113702-00	STD
In-line engine, diesel, 13.8l 8200.02.220, 8200.12.004/12.000 8205.02 Vehicle : 308, 308L, 343, 418/A/AL, 684 N/NP OEM: 1900459, 1901448	6	137.00	4.00 3.00 3.00 5.50	T CR M IF P M IF P DSF CR	KG 1 LG 1 LG 1 KG 1	14113703-00	STD
In-line engine, diesel, 13.8l 8210.42.400 euro2, 8210.42.151, 8210.42.101 Vehicle: LD 240 E 47, Eurotech, 190.38 Turbotech , Turbostar OEM: 1902695, 1908628, 19021583	6	137.00	4.00 3.00 5.50	T CR M IF P DSF CR	KG 1 LG 1 KG 1	14113704-00	STD
In-line engine, diesel, 17.1l 8280.02.000 Vehicle: 170, 370S35 OEM: 1901483, 1901990 F1901402	8	145.00	4.00 3.00 6.00	T CR M IF CR DSF CR	KG 1 KG 1 KG 1	14114501-00	STD
In-line engine, diesel, 8260.02 8280.02; 8280.01	V8	145.00	3.50 3.00 6.00	R CR M IF CR DSF CR	KG 1 KG 1 KG 1	14114502-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORD							
In-line engine, fuel, 1.2l HCS, 1.1 Vehicle : Fiesta, Escort	4	68.70	1.50 1.75 3.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	14506801-00	STD
In-line engine, diesel, 1.3l M 733 AT.12Z Vehicle : Ka 1.3 TDCi		69.60	2.00 1.50 2.00	R CR NM P DSFST CR	KG 1 LG 1 ST	14506901-00	STD
In-line engine, fuel, 1.2l ZH12 Zetec S Vehicle: Fiesta 1.2 16v	4	71.90	1.20 1.50 2.50	R CR NM P DSF CR	ST LG 1 KG 1	14507101-00 14507101-07	STD + 0.50
In-line engine, fuel, 1.2l ZH12 Zetec S Vehicle: Fiesta 1.2 16v	4	71.90	1.20 1.50 2.50	R CR NM P SLF CR	ST LG 1 ST	14507102-00 14507102-07	STD + 0.50
In-line engine, fuel, 1.0l SFCA, SFCB, SFCC, SFCD Vehicle: Bmax, Cmax, Escort, Fiesta, Focus, Mondeo, Transit	3	71.90	1.00 1.20 2.00	R DLC NM P SLF CR	ST LG 1 ST	14507103-00	STD
In-line engine, fuel, 1.1l GLA GMA GLB GSF Vehicle : Fiesta, Escort: Express-Turner	4	73.94	1.60 2.00 4.00	R IW CR NM P DSF CR	KG 1 LG 1 KG 1	14507301-00 14507301-07 14507301-11	STD + 0.50 + 1.00
1.0l TKB TLA Vehicle: Fiesta	4						
In-line engine, diesel, 1.4l F6JD Vehicle: Fiesta TDCi 16v	4	73.70	2.50 1.95 2.50	T CR M IFU P DSFST CR	KG 1 LG 1 ST	14507302-00 14507302-07	STD + 0.50
In-line engine, diesel, 1.5l AEDA, UGCA, UGCB, XUCA Vehicle: Ecosport, Transit, Grant, B-Max	4	73.50	2.00 1.95 2.00	HK CR P NM P DSFST CR	KG 1 LG 1 ST	14507303-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORD Cont.							
In-line engine, fuel, 1.3l J4B, J4C, J6B, JBC Vehicle: Escort, Orion, Fiesta, KA	4	74.00	1.50	R IF CR	KG 1	14507401-00 14507401-07	STD + 0.50
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 935 cm ³ , TK B, LC Vehicle: Fiesta	4	74.00	1.60	R CR P	KG 1	14507402-00 14507402-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
957 cm ³ , HC, TK B, LC Vehicle: Fiesta	4						
1.1l GSF, HC Vehicle: Fiesta, Escort	4						
In-line engine, diesel, 1.6l Duratorq TDCi Vehicle: Fusion, Fiesta	4	75.00	3.00	T CR	KG 1	14507501-00 14507501-07 14507501-08	STD + 0.50 + 0.60
			1.95	NM P	LG 1		
			2.50	DSFST CR	ST		
In-line engine, diesel, 1.6l T1BA, T1BB, T1BC, T1DA, T1DB, T3JA, TZJA, TZJB, TZJA, TZJB Vehicle: MONDEO IV, FOCUS III 1.6 TDCi, FIESTA VI 1.6 TDCi	4	75.00	2.50	T CR	KG 1	14507502-00 14507502-07	STD + 0.50
			1.95	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 1.6l T1BA, T1BB, T1BC, T3JB Vehicle: B-MAX, C-MAX, FOCUS, IESTA, GRAND, MONDEO	4	75.00	2.00	HK CR	ST	14507503-00	STD
			1.95	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 1.6l Zetec 16 V,4V Vehicle: Escort, Orion, Zeta	4	76.00	1.50	R CR	KG 1	14507601-00 14507601-07	STD + 0.50
			1.60	NM P	LG 1		
			2.50	DSFST CR	ST		
In-line engine, fuel, 1.4l ZH14 Zetec S Motor Zetec SE Vehicle: Fiesta, Focus, Puma	4	76.00	1.20	R CR	ST	14507602-00	STD
			1.50	NM P	LG 1		
			2.50	DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORD Cont.							
In-line engine, fuel, 1.4l E5 Vehicle: LASER SPORT,Meteor GLS	8	77.00	1.50 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	14507701-00	STD
In-line engine, fuel, 1.4l CVH, FUA, LC Vehicle: Fiesta, Escort, Orion	4	77.20	1.60 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	14507702-00	STD
In-line engine, fuel, 1.3l HC - LC Vehicle: TAUNUS 1.3	4	79.00	2.00 2.50 4.00	R IFCR M P DSF CR	KG 1 LG 1 KG 1	14507901-00	STD
In-line engine, fuel, 1.3l HC - KENT Vehicle: TAUNUS, Cortina	4	79.00	1.60 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	14507902-00	STD
In-line engine, fuel, 1.6l JPA, JPC Vehicle: Escort, Sierra, Orion, Fiesta 1.6	4	79.94	1.60 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	14507903-00	STD
In-line engine, fuel, 1.6l Sigma, Zetec, FYDA, FYDB, FYDD Vehicle : Fiesta, Mondeo, Puma, Focus 1.6 16 V, Fusion 1.6 16 V	4	79.00	1.20 1.50 2.00	R CR NM P SLF CR	ST LG 1 ST	14507904-00 14507904-07	STD + 0.50
In-line engine, fuel, 1.6l JQDA, JQDB, JQMA, JQMB, JTBA, JTBB (ecoboost) Vehicle : Kuga, C-Max, Grand, Focus III, Escape III	4	79.00	1.20 1.20 2.00	R CR NM P SLF CR	ST LG 1 ST	14507905-00	STD
In-line engine, diesel, 1.6l LTA, LTB, LTC Vehicle: Fiesta D, Escort D, Orion D	4	80.00	2.00 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	14508001-00 14508001-07 14508001-11	STD + 0.50 + 1.00



Make - Engine - Model	 No	 Ø mm.		 Ring type	Material	Powerseal No	Size
FORD Cont.							
In-line engine, fuel, 1.8l ZH18N/M/P Motor Zetec E Vehicle : Focus 1.8i, Escort 1.8i, Mondeo 1.8i	4	80.60	1.20 1.60 2.50	R CR NM P DSF CR	ST LG 1 KG 1	14508003-00	STD
In-line engine, fuel, 1.3l JPA, JPC Vehicle: Fiesta, Escort, Orion	4	80.00	1.60 2.00 4.00	R CR M P DSF CR	KG 1 LG 1 KG 1	14508004-00	STD
1.6l CVH, LRB, EFI, LUC Vehicle: Escort XR 3i, Orion, Sierra	4						
In-line engine, fuel, 1.8l 1.8 DOHC 16V, RKA, RFM Vehicle : Fiesta, Escort, Mondeo	4	80.60	1.50 1.60 2.50	R CRP NM P DSF CR	KG 1 LG 1 KG 1	14508005-00	STD
In-line engine, fuel, 1.8l RKC, RDA, RQB, RKJ, EYPA, EYPC Vehicle : Escort, Focus, Mondeo, Ranger, Transit	4	80.60	1.20 1.50 2.50	R CR NM P SLF CR	ST LG 1 ST	14508010-00	STD
In-line engine, fuel, 1.6l LSD, LSE Vehicle: Sierra, Laser 1.6	4	81.30	1.60 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	14508101-00 14508101-07 14508101-11	STD + 0.50 + 1.00
In-line engine, diesel, 1.8l RTE, RTF Vehicle: Fiesta, Escort, Orion	4	82.50	2.00 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	14508201-00 14508201-07 14508201-11	STD + 0.50 + 1.00



Make - Engine - Model		No	Ø mm.		Ring type	Material	Powerseal No	Size	
FORD Cont.									
In-line engine, diesel, 1.8l RFA, RFB Vehicle: Mondeo TD, Escort, Sierra TD, P100, Van 1998		4	82.50		2.50	T CR	KG 1	14508202-00	STD
					2.00	M P	LG 1	14508202-07	+ 0.50
					3.00	DSF CR	KG 1	14508202-11	+ 1.00
In-line engine, diesel, 1.8l BHDA, BHDB Vehicle : Focus 1.8 TDI, Transit, Tourneo		4	82.50		2.50	HK CR	KG 1	14508203-00	STD
					2.00	M P	LG 1	14508203-07	+ 0.50
					3.00	DSF CR	KG 1	14508203-11	+ 1.00
In-line engine, diesel, 1.8l FFBA, KKDA, FFWA, KHBA Vehicle: Mondeo, Focus, Smax, Cmax, Tourneo Connect		4	82.50		1.75	R IF CR	KG 1	14508204-00	STD
					2.00	NM IFU P	LG 1	14508204-07	+ 0.50
					2.00	DSFST CR	ST		
In-line engine, diesel, 1.8l FFBA, KKDA, FFWA, KHBA Vehicle: Mondeo, Focus, Smax, Cmax, Tourneo Connect		4	82.50		1.75	R IF CR	KG 1	14508205-00	STD
					2.00	NM P	LG 1	14508205-07	+ 0.50
					2.00	DSFST CR	ST		
In-line engine, fuel, 1,6l ZL 16, 68 kW 92 PS Vehicle: Sportka Ikon 1.6 i		4	82.07		1.20	R NIT	ST	14508206-00	STD
					1.50	NM P	LG 1	14508206-07	+ 0.50
					2.00	SLF NIT	ST		
In-line engine, fuel, 1.8l CGBA CGBB CHBA CHBB Vehicle : Mondeo - Focus		4	83.00		1.20	R CR	ST	14508301-00	STD
					1.20	NM P	LG 2	14508301-07	+ 0.50
					2.50	SLF CR	ST		
2.6l CGBA CGBB CHBA CHBB Vehicle : Mondeo - Focus		5	83.00						
In-line engine, fuel, 2.0l V,VP5 DH Vehicle: Taurus 20M,Capri 2000,		6	84.00		2.00	R CR	KG 1	14508401-00	STD
					3.00	NM P	LG 1		
					5.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORD Cont.							
In-line engine, fuel, 2.0l EDBA Vehicle : Mondeo	4	84.80	1.50 1.75 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	14508402-00	STD
In-line engine, fuel, 2.0l Zetec 100 / 136 Vehicle: Mondeo	4	84.80	1.20 1.50 2.50	R IF CR P NM P SLF CR	ST LG 1 ST	14508403-00	STD
In-line engine, fuel, 2.0l EDBA, EDBB, EDBC, EBD, E EDDB, EDBD, EDDC, EDDF ZH20 ZETEC E Vehicle: Mondeo, Focus, Cougar 2.0 16V	4	84.80	1.20 1.50 3.00	R IF CR P NM P SLF CR	ST LG 1 ST	14508404-00	STD
In-line engine, diesel, 2.0l YLCB, YLDA, YMCB, YNCA Vehicle: FOCUS IV, GALAXY, MONDEO V, RANGER, S-MAX 2.0 EcoBlue	4	84.00	2.00 2.00 2.00	R IF CR M IFU CR DSFST CR	KG 1 KG 1 ST	14508405-00	STD
In-line engine, diesel, 2.0l G6DA, G6DB, KLBA, LPBA, QXBA Vehicle: FOCUS II, C-MAX DM2, MONDEO IV, KUGA I	4	85.00	3.50 2.00 3.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	14508501-00	STD
In-line engine, fuel, 2.0l NBA, NBC, NES, NSE Vehicle: Galaxy, Sierra, Scorpio, Transit, Tourneo	4	86.00	1.60 1.75 3.00	R CR P M P DSF CR	KG 1 LG 1 KG 1	14508601-00 14508601-07 14508601-11	STD + 0.50 + 1.00
In-line engine, fuel, 1.8l R2A, REB, REC, RED, REF Vehicle: Scorpio 1.8, Sierra 1.8	4	86.20	1.60 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	14508603-00 14508603-07 14508603-11	STD + 0.50 + 1.00



Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
FORD Cont.									
In-line engine, diesel, 2.0l 2.0 TD Duratorq Vehicle: Transit Mondeo	4	86.00	2.50	HK CR	KG 1	14508604-00	STD		
			2.00	NM P	LG 1				
			3.00	DSF CR	KG 1				
In-line engine, diesel, 2.0l 2.0 TDC Duratorq Vehicle: Puma, Mondeo, Transit TDC	4	86.00	2.00	R IF CR	KG 1	14508605-00	STD		
			2.00	NM P	LG 1	14508605-05	+ 0.25		
			2.00	DSFST CR	ST	14508605-06	+ 0.40		
						14508605-07	+ 0.50		
						14508605-08	+ 0.60		
			14508605-11	+ 1.00					
In-line engine, diesel, 2.0l 2.0TDCi Duratorq Vehicle: Puma, Mondeo, Transit TDCi	4	86.00	2.00	R IF CR P	KG 1	14508606-00	STD		
			2.00	NM P	LG 1				
			3.00	DSF CR P	KG 1				
In-line engine, fuel, 1.6l HC Vehicle: Taurus 1600, Capri 1600 II, Escort 1600, Cortina 1600, Granada 1600	4	87.65	2.00	R IF CR	KG 1	14508701-00	STD		
			2.50	NM P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, fuel, 1.6l LCE, LCN, LAT, LCR Vehicle: Taurus 1.6, Sierra 1.6, Capri	4	87.65	1.60	R CR	KG 1	14508702-00	STD		
			2.00	NM P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, fuel, 2.3l N4JB Vehicle: Fiesta ST, Focus 2.0, C-Max, S-Max, Mondeo 2.0, Galaxy	4	87.50	1.20	R CR	ST	14508703-00	STD		
			1.20	NM P	KG 2			14508703-07	+ 0.50
			2.50	SLF CR	ST				
In-line engine, fuel, 2.0l Duratec Vehicle: Fiesta ST, Focus 2.0, C-Max, S-Max, Mondeo 2.0, Galaxy	4	87.50	1.20	R IF CR P	ST	14508704-00	STD		
			1.50	NM P	LG 1				
			2.00	DSFST CR	ST				
In-line engine, fuel, 2.0l TNWA, TNWB, TPBA, TPWA Vehicle: Ford Galaxy 2.0, Ford Mondeo IV	4	87.50	1.20	R IF CR P	ST	14508704-00	STD		
			1.50	NM P	LG 1				
			2.00	DSFST CR	ST				


Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORD Cont.							
In-line engine, fuel, 2,0l TPBA Vehicle: FORD MONDEO IV 2.0 EcoBoost	4	87.50	1.20	R DLC	ST	14508706-00	STD
			1.20	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.2l 134 CID, 134 Flex Vehicle: Overbore Conversion, NAA 600/700 Series	6	88.90	2.38	R CR P	KG 1	14508801-00	STD
			2.38	M IFU P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 2.4l D2FA, D2FB, D2FE Vehicle : Transit 2.4 DI, Transit 2.4 TDE	4	89.90	2.50	HK CRP	KG 1	14508901-00	STD
			2.00	NM P	LG 1	14508901-07	+ 0.50
			3.00	DSF CR	KG 1	14508901-11	+ 1.00
In-line engine, diesel, 2.4l D2FA D4FA F4FA Vehicle : Transit 2.4 DI	4	89.90	2.00	R CR	KG 1	14508902-00	STD
			2.00	NM P	LG 1	14508902-07	+ 0.50
			2.00	DSFST CR	ST	14508902-11	+ 1.00
In-line engine, fuel, 2.3l DH 23 Vehicle : Scorpio, Ghia, Galaxy, Transit	4	89.60	1.60	R CR	KG 1	14508903-00	STD
			1.50	NM P	LG 1	14508903-07	+ 0.50
			2.50	SLF CR	ST		
In-line engine, fuel, Vulcan V6 Sable, Taurus, Ranger	6	89.00	1.50	R CR	KG 1	14508904-00	STD
			1.50	NM P	LG 1		
			3.00	SLF CR	ST		
In-line engine, fuel, 1.7l EV17L Vehicle: Taurus 17 M,Turnier Transit 1300,1500,1750	4	90.00	2.00	R CR	KG 1	14509001-00	STD
			3.00	M P	LG 1		
			4.00	DSF CR	KG 1		
1.5l 12M Vehicle: Turnier Transit900/1100, Taurus 12M	4						
2.3l YYF, YYH, HF23 Vehicle: Capri, Granada,Taurus,20 M RS	4						



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
FORD Cont.								
In-line engine, diesel, 2.1l XDP 4.90 Vehicle: Granada 08/77	4	90.00	2.00	R CR	KG 1	14509002-00	STD	
			2.00	M P	LG 1			
			2.00	M P	LG 1			
			4.50	DSF CR	KG 1			
In-line engine, fuel, 2.0l N80 Vehicle: Taurus, Sierra, Capri, Granada	4	90.80	2.00	R IF CR	KG 1	14509003-00	STD	
			2.50	NM P	LG 1	14509003-05	+ 0.25	
			4.00	DSF CR	KG 1	14509003-07	+ 0.50	
						14509003-09	+ 0.75	
						14509003-11	+ 1.00	
In-line engine, fuel, 2.0l HC, LC, EFI, LC, MC, OHC Vehicle: Consul 2000, Escort RS 2000, Cortina 2000, Taurus 2000, Granada 2000, Capri 2000 II Sierra, Scorpio, Pinto 2000	4	90.80	1.60	R CR	KG 1	14509004-00	STD	
			2.00	M P	LG 1	14509004-07	+ 0.50	
			4.00	DSF CR	KG 1			
In-line engine, fuel, 2.0l YB G/J/P Vehicle: Sierra RS Cosworth Escort RS Cosworth	4	90.80	1.50	R CR	KG 1	14509005-00	STD	
			1.75	NM P	LG 1	14509005-07	+ 0.50	
			3.00	DSF CR	KG 1	14509005-11	+ 1.00	
In-line engine, diesel, 2.4l 2401 E York Vehicle: 75/80/90/100/115/120/ 125/130/150/160/175/190 A 0505/0609, Van 100/150 3.5l 2402 E York Vehicle: A 0409/0509/0609/0709	4	93.67	2.38	HK CR	KG 1	14509301-00	STD	
			2.38	NM P	LG 1	14509301-08	+ 0.60	
			4.74	DSF CR	KG 1	14509301-11	+ 1.00	
	6							
In-line engine, diesel, 2.4l 2401 E York Vehicle: Transit 75/80/90/100/115/120/ 125/130/150/160/175/190 A 0505/0609, Van 100/150 3.5l 2402 E York Vehicle: A 0409/0509/0609/0709	4	93.67	1.99	R CR	KG 1	14509302-00	STD	
			1.99	NM P	LG 1			
			4.76	DSF CR	KG 1			
	6							

Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
FORD Cont.									
In-line engine, diesel, 2.5l 4BC, 4BA, 4CC Vehicle: Transit 2.5 DI	4	93.67	2.50	T CR	KG 1	14509303-00	STD		
			2.00	M IFU P	LG 1	14509303-07	+ 0.50		
			4.00	DSF CR	KG 1	14509303-11	+ 1.00		
In-line engine, diesel, 2.5l 4GE, 4GF, 4HA Vehicle: Transit 2.5 TD	4	93.67	2.50	HK CR	KG 1	14509304-00	STD		
			2.00	NM P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, diesel, 2.5l York Vehicle: Transit 80/100/120/130	4	93.67	2.00	R CR P	KG 1	14509305-00	STD		
			2.00	M IF P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, fuel, 2.8l PR5, PR6, PR7, PR8 Vehicle : Capri 2.8 Turbo, Granada 2.8, Marinemotor, Capri, Sierra XR 4i, Granada 2.8i, Scorpio 2.8i, Capri 2.8i	V6	93.00	2.00	R CR	KG 1	14509306-00	STD		
			2.50	NM P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, diesel, 2.5l XM34, XM34TD Vehicle: Ranger Pick up, Ranger Pick up Thunder	4	93.00	2.50	R CR	KG 1	14509307-00	STD		
			2.00	R IF CR	KG 1			14509307-07	+ 0.50
			3.00	DSF CR	KG 1				
In-line engine, diesel, 2.3l YTR, YTT Vehicle: Sierra 2.3 D Granada, Scorpio 2.5l STP, STR Vehicle: Granada, Scorpio	4	94.00	2.00	R CR	KG 1	14509401-00	STD		
			2.00	M P	LG 1			14509401-06	+ 0.40
			4.00	DSF CR	KG 1				
	4	94.00	2.50	T CR	KG 1	14509402-00	STD		
				2.00	M IFU P			LG 1	
				3.00	DSF CR			KG 1	

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
FORD Cont.								
In-line engine, diesel, OEM: 8094692		102.00	3.00	T CR	KG 1	14510201-00	STD	
			3.00	TM IW P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine, diesel, 5.9l 360 DT, 2704 ET 360 TC Tornado, 2726T, 150 Vehicle: Cargo D 1114/1115/1314/ 1315/1515/1315 K/1515 K/D 1614,D 2014, DA 2014, DT 2014,D 2214, DA 2214, D 2115,DT 2414	6	104.77	3.17	T CR	KG 1	14510401-00	STD	
			2.38	M IF P	LG 1			
			2.38	NM P	LG 1			
			4.76	DSF CR	KG 1			
In-line engine, diesel, 4.0l 2700 D-2701E-2706 E 6.0l 22704 E-2709 E Vehicle: D 300,D 800.D 630.D 640,Cargo 0711/0811/0911	4	104.77	2.38	R CR	KG 1	14510402-00	STD	
				2.38	M IF P	LG 1	14510402-05	+ 0.25
				2.38	NM P	LG 1	14510402-07	+ 0.50
	6			4.76	DSF CR	KG 1	14510402-09	+ 0.75
								14510402-11
In-line engine, diesel, 6.0l 110 Vehicle: Cargo 0711, 0811	6	104.77	2.38	R CR	KG 1	14510403-00	STD	
			2.38	M IF P	LG 1			
			4.76	DSF CR	KG 1			
In-line engine, diesel, 6.0l 2713E Vehicle: D 1210-1211,Cargo 0711/0811/0911	6	104.77	2.38	R CR	KG 1	14510404-00	STD	
			2.38	R IW CR	KG 1	14510404-05	+ 0.25	
			2.38	M IF P	LG 1	14510404-07	+ 0.50	
			4.76	DSF CR	KG 1	14510404-09	+ 0.75	
							14510404-11	+ 1.00
In-line engine, diesel, Dover 6.0 TCI	6	104.77	3.00	T CR	KG 1	14510405-00	STD	
			2.50	M P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine, diesel, 4.2l 2711E-2712E-2722 OHV Vehicle: D0610, 0607 6.2l Cargo 2714 E, 2715 E Vehicle: Cargo D0607, 0812	4	107.21	2.38	R CR	KG 1	14510701-00	STD	
			2.38	R IW CR	KG 1	14510701-05	+ 0.25	
			2.38	M IW P	LG 1	14510701-07	+ 0.50	
	6			4.74	DSF CR	KG 1	14510701-09	+ 0.75
								14510701-11

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORD Cont.							
In-line engine, diesel, 4.0l 254 CID Vehicle: Cargo 0606	4	107.21	2.38	R IF CR P	KG 1	14510702-00	STD
			2.38	M IW P	LG 1	14510702-06	+ 0.40
			4.76	DSF CR	KG 1	14510702-10	+ 0.80
6.2l 380 CID Vehicle: Cargo D 0713, 0813	6						
In-line engine, diesel, 4.2l 2712 E, 2722, 255 Four Vehicle: D-0610, 0607, 0707	4	107.21	2.38	R CR	KG 1	14510704-00	STD
			2.38	M IW P	LG 1	14510704-05	+ 0.25
			2.38	NM P	LG 1	14510704-07	+ 0.50
			4.76	DSF CR	KG 1	14510704-09	+ 0.75
						14510704-11	+ 1.00
6.2l 2714E, 2715E, 2725, 380 SIC/CID Vehicle: D-Baureihe 300, 400, 500, 550, 600, 700, 750, 800, DT 800, Gabelstapler OK, Cargo D 0607, 0812, 0813, 0911, 0913, 1011, 1013, 1111,1211, 7095, 6500 S, 642 Combine	6						
In-line engine, diesel, 4.2l 6Y,7A Vehicle: MAJOR 4600,800, 8600	4	111.76	2.38	R IW CR	KG 1	14511101-00	STD
			2.38	M IW P	LG 1	14511101-05	+ 0.25
			2.38	NM P	LG 1	14511101-07	+ 0.50
			4.76	DSF CR	KG 1	14511101-11	+ 1.00
6.3l BSD 333H,PD, 6Y,7A1 Vehicle: Traktor 8000	6						
In-line engine, diesel, 4.1l 6 Y , 7 A Vehicle: Loader A 62, Tractor 750,7000,8600, 7700	4	111.76	3.17	T CR	KG 1	14511102-00	STD
			2.38	R IW CR	KG 1	14511102-05	+ 0.25
			2.38	M IW P	LG 1	14511102-07	+ 0.50
			4.74	DSF CR	KG 1	14511102-11	+ 1.00

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORD Cont.							
In-line engine, diesel, 4.2l 6Y,7A	4	111.76	2.38	R CR	KG 1	14511103-00	STD
			2.38	R IW CR	KG 1	14511103-05	+ 0.25
			2.38	M IW P	LG 1	14511103-07	+ 0.50
			4.76	DSF CR	KG 1	14511103-11	+ 1.00
3.3l BSD 333H, PD,6Y,7A1 Vehicle: T515/531/532/535	3						
In-line engine, diesel, 6.6l 7A Vehicle: Traktor 9200, 9260, 9600	6	111.76	3.17	T IF CR	KG 1	14511104-00	STD
			2.38	NM P	LG 1	14511104-07	+ 0.50
			4.76	DSF CR	KG 1	14511104-09	+ 0.75
						14511104-11	+ 1.00
In-line engine, diesel, 4.4l Vehicle: New Holland 5640, 7840, 6640, TS80	4	111.76	2.38	R CR	KG 1	14511105-00	STD
			2.38	M IW P	LG 1	14511105-07	+ 0.50
			4.76	DSF CR	KG 1	14511105-09	+ 0.75
						14511105-11	+ 1.00
In-line engine, fuel, 6.6l Vehicle: New Holland 8240-8340	6	111.76	2.38	R IF CR	KG 1	14511106-00	STD
			2.38	NM P	LG 1	14511106-07	+ 0.50
			4.76	DSF CR	KG 1		
In-line engine, diesel, Power Star 7.5 TI Vehicle: MXM120 Turbo, MXM130 Turbo		111.76	3.17	T IF CR	KG 1	14511107-00	STD
			2.38	NM P	LG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, OEM: 87802459		111.76	3.17	T IF CR P	KG 1	14511108-00	STD
			3.00	TM P	LG 1	14511108-07	+ 0.50
			4.76	DSF CR P	KG 1		
In-line engine, diesel, FRAMTRAC	1	111.76	2.38	R IF CR P	KG 1	14511109-00	STD
			2.38	R IF CR P	KG 1		+ 0.50
			3.50	DSF CR P	KG 1		

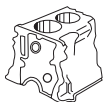

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					



FORD Cont.



In-line engine, diesel, 3.3l 2506 E, 2512 E, BSD 333 H, PD, 6 Y, 7 A, 3201 Vehicle: 4000, 4600, 515, 531, 532, 535, 540, 545, 550, 555, 4110, 4610	3	111.76	3.17	T CR P	KG 1	14511110-00	STD
			2.38	M IW CR P	KG 1		
			4.76	DSF CR P	KG 1		
In-line engine, diesel, 4.4l BSD 444 Vehicle: Traktor 6610, 6710	4						
In-line engine, diesel, 6.6l 7 A, 6 Y Vehicle: Traktor Major 8000, 8200, 8210, 8260, 8400, 8600, 8700, TW 10, Loader A 64, Excavator H 48	6						
In-line engine, diesel, 7.3l ECOTORQ NHDD Vehicle: 240 BG, 300 BG	6	112.00	3.00	HK CR P	KG 1	14511201-00	STD
			2.50	R P	LG 1		
			3.00	DSF CR P	KG 1		



FORDSON



In-line engine, diesel, 3.6l 592 E, 4 D Vehicle: Tractor	4	100.00	2.38	R CR	KG 1	14610001-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			4.74	DSF CR	KG 1		
			4.74	D P	LG 1		
5.4l 590 E, 6 D Vehicle: Tractor	6						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
FORDSON Cont.							
In-line engine, diesel, 2.6l 2504E,2508E Vehicle: Tractor SUPER DEXTA 3000	3	106.68	2.38	R CR	KG 1	14610601-00	STD
			2.38	R IW CR	KG 1	14610601-07	+ 0.50
			2.38	M IW P	LG 1	14610601-09	+ 0.75
			4.74	DSF CR	KG 1	14610601-11	+ 1.00
3.8l 2502E Vehicle: Tractor SUPER DEXTA5600	4						
GUASGOR							
In-line engine, diesel, 31.8l E 318 T-SP Vehicle: Generator	12	150.00	3.50	R CR	KG 1	14715001-00	STD
			3.50	M IF P	LG 1		
			3.50	M IF P	LG 1		
			6.00	DSF CR	KG 1		
15.9l E158 SP Vehicle: Marine Engine							
21.2l E212 SP, TA-SP Vehicle: Marine Engine							
In-line engine, diesel, R 15, ENA 2 Vehicle: Generator Marine Engine	12	150.00	4.00	T CR	KG 1	14715002-00	STD
			3.50	M IF P	LG 1		
			3.50	M IF P	LG 1		
			6.00	DSF CR	KG 1		
In-line engine, diesel, F180, F240, F360, F480 Vehicle: Marine Engine, Generator	6	152.00	4.00	T CR	KG 1	14715201-00	STD
			3.50	M IW P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, SF 360 TA	6	152.00	3.50	R CR P	KG 1	14715202-00	STD
			3.50	M IW P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, HGM 560	8	160.00	4.50	T CR	KG 1	14716001-00	STD
			3.50	M CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, gas,	1	200.00	4.00	R IF CR	KG 1	14720001-00	STD
			4.00	R IF CR	KG 1		
			4.00	M P	LG 1		
			8.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HANOMAG							
In-line engine, diesel, 1.8l D 301, .E1 R 4, 1796 cm ³ , 37 kW (50 PS), 19,8:1 Vehicle: F 20 1962...1968 F 25 1962...1968 F 30 1962...1968 F 35 1962...1968 E 2 1962...1968	4	78.00	2.50	R CR	KG 1	14807801-00	STD
			2.50	M P	LG 1	14807801-07	+ 0.50
			2.50	NM P	LG 1	14807801-11	+ 1.00
			5.00	S P	LG 1		
			5.00	S P	LG 1		
In-line engine, diesel, 0.5l D 611 s 1.0l D 621 S 1.5l D 631 S 2.0l D 642	4	85.00	3.00	R IF CR P	KG 1	14808501-00	STD
			3.00	M P	LG 1	14808501-07	+ 0.50
			3.00	M P	LG 1	14808501-11	+ 1.00
	4		2.00	M IF P	LG 1	14808501-14	+ 1.50
			2.00	M IF P	LG 1	14808501-16	+ 2.00
	4		5.00	DSF P	LG 1		
In-line engine, diesel, 1.3l D14-R19/D14CR 2.1l D21-R27/D21CR 2.8l D28-R35/D28CR	4	90.00	3.00	R CR P	KG 1	14809001-00	STD
			3.00	M P	LG 1	14809001-07	+ 0.50
			3.00	M P	LG 1	14809001-11	+ 1.00
	4		5.50	S P	LG 1		
			5.50	S P	LG 1		
In-line engine, diesel, 2.3l D132 R,35 KW(48 PS) 3.1l D142 R,43KW(58 PS) 4.8l D162R,63KW(85PS)	4	100.00	2.50	R CR	KG 1	14810001-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
	4		5.00	G P	LG 1		
In-line engine, diesel, 5.7l D 57 K55,K55W-EF,R-44JE	6	110.00	4.00	HK CR	KG 1	14811001-00	STD
			4.00	M P	LG 1		
			4.00	M P	LG 1		
			6.00	DSF CR	KG 1		
			6.00	D P	LG 1		
In-line engine, diesel, 6.3l D 942 9.5l D 962, B/K Vehicle: B 14,B 14 C, MF 55 C, L 600 D	6	120.00	2.50	R IF CR P	KG 1	14812001-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
	6		6.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HANOMAG Cont.							
In-line engine, diesel, 6.8l D 941 Vehicle: K7B, K7E	4	120.00	3.00	R IF CR	KG 1	14812002-00	STD
			3.00	M P	LG 1		
10.1l D 961 Vehicle: K10E, K10L	6		3.00	NM P	LG 1		
			6.00	DSF CR	KG 1		
In-line engine, diesel, 10.8l D 963 A2 Vehicle: L700	4	128.00	3.50	T CR	KG 1	14812801-00	STD
			2.50	M P	LG 1		
			6.00	DSF CR	KG 1		
In-line engine, diesel, 7.2l D 943 Vehicle: B 11 C, B 44 C	6	128.00	2.50	R IF CR	KG 1	14812802-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			6.00	DSF CR	KG 1		
10.8l D 963, B/K Vehicle: B 18, K 18, 55 D, L 600 D	6						
HATZ							
In-line engine, diesel, E/ES 71, E/ES 75 air-cooled,	1	75.00	1.75	R IF CR	KG 1	15007501-00	STD
			1.75	M P	LG 1	15007501-07	+ 0.50
			4.00	G P	LG 1	15007501-11	+ 1.00
In-line engine, diesel, 500 ccm E80 G/FG/FL	1	80.00	2.50	R CR	KG 1	15008001-00	STD
			2.50	M IF P	LG 1	15008001-07	+ 0.50
			4.00	GSF P	LG 1	15008001-11	+ 1.00
In-line engine, diesel, 500 ccm E780	1	80.00	2.50	R CR	KG 1	15008002-00	STD
			2.50	M P	LG 1		
			4.00	G P	LG 1		
In-line engine, diesel, 502 cm ³ E80 G/FG/FL Vehicle: 1953	1	80.00	2.00	R CR	KG 1	15008003-00	STD
			2.00	M P	LG 1	15008003-07	+ 0.50
			4.00	GSF P	LG 1	15008003-11	+ 1.00
In-line engine, diesel, 525 cm ³ ES,E 780	1	82.00	2.50	R CR	KG 1	15008201-00	STD
			2.50	M IF P	LG 1	15008201-07	+ 0.50
			5.00	DSF CR	KG 1	15008201-11	+ 1.00

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HATZ Cont.							
In-line engine, diesel, E 85 Vehicle: Industrial engine	1	85.00	3.00	R CR	KG 1	15008501-00	STD
			3.00	M IF P	LG 1	15008501-07	+ 0.50
			5.00	G P	LG 1	15008501-11	+ 1.00
In-line engine, diesel, E 85 FG/FL/G 567 cm ³ , Vehicle: TL 10 624 cm ³ E 786	1	85.00	2.00	R CR	KG 1	15008502-00	STD
	1		2.00	M IF P	LG 1		
			4.00	G P	LG 1		
In-line engine, diesel, 620ccm E 785, ES 785	1	85.00	2.50	R CR	KG 1	15008503-00 15008503-07	STD + 0.50
			2.50	M IF P	LG 1		
			4.00	G P	LG 1		
			4.00	G P	LG 1		
In-line engine, diesel, 1270 ccm Z790	2	90.00	3.00	R CR	KG 1	15009001-00 15009001-07 15009001-11	STD + 0.50 + 1.00
			3.00	M P	LG 1		
			5.00	G P	LG 1		
In-line engine, diesel, 668 ccm E88/89 G/FG/FL Vehicle: TL 12/-11/-13 , H 113	1	90.00	2.00	R IF CR	KG 1	15009002-00	STD
			2.00	NM P	LG 1		
			4.00	G P	LG 1		
In-line engine, diesel, 0.4l 1 D 41, 1 D 42 3,0 - 7,5 kW Vehicle: Industrial engine	1	90.00	2.00	R IF CR	KG 1	15009003-00	STD
			2.00	NM P	LG 1		
			3.50	G P	LG 1		
In-line engine, diesel, 0.7l E 89 G, FL Vehicle: TL 11, 12, 13, H 113 Air cooled	1	90.00	3.00	R CR	KG 1	15009004-00 15009004-07 15009004-11	STD + 0.50 + 1.00
			3.00	M IF P	KG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 1 D 50		97.00	2.00	R IF CR P	KG 1	15009701-00	STD
			2.00	NM P	LG 1		
			3.50	S P	LG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HATZ Cont.							
In-line engine, diesel, 667 cm ³ 1 D 80 Vehicle: Stationary engine	1	100.00	2.50	R CR	KG 1	15010001-00	STD
			2.00	NM P	LG 1		
			4.00	GSF P	LG 1		
In-line engine, diesel, 0.7l 1 D 80 10 kW (13 PS) Vehicle: Stationary engine	1	100.00	2.50	R IF CR P	KG 1	15010002-00	STD
			2.00	NM P	LG 1		
			4.00	G P	LG 1		
In-line engine, diesel, 1.8l 2 L/M 40	2	102.00	3.00	T CR	KG 1	15010201-00	STD
			2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
2.6l 3 L/M 40	3						
3.4l 4 L/M 40 Vehicle: Industriemotor	4						
In-line engine, diesel, 1.0l E108	1	108.00	3.00	T CR	KG 1	15010801-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
2.0l D108	2		5.00	DSF CR P	KG 1	15010801-11	+ 1.00
4.0l D108-V108	4						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HINO							
In-line engine, diesel, 4.0l FB112, FB110,(W04D)	4	104.00	2.50	R CR	KG 1	15310401-00	STD
			2.00	M IW P	LG 1		
			5.00	DSF CR P	KG 1		
In-line engine, diesel, 4.0l W04 D (81,6 kw-111 PS) Vehicle: FB110, FB 112	4	104.00	3.00	T CR	KG 1	15310402-00	STD
			2.50	M IW P	LG 1		
			5.00	DSF CR P	KG 1		
HINOMOTO							
In-line engine, diesel, C142, C144	70.00	70.00	2.00	HK CR P	ST	34007001-00	STD
			2.00	R IW CR P	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, C174	73.00	73.00	2.00	HK CR P	ST	34007301-00	STD
			2.00	M IF P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, E1804	75.00	75.00	2.00	HK CR	ST	34007501-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, E224 - E 222	78.00	78.00	2.00	HK CR P	ST	34007801-00	STD
			2.00	M IF P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, E2004	80.00	80.00	2.00	HK CR P	ST	34008001-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, N239 (6-26-100-40)	82.00	82.00	1.50	HK CR	ST	34008201-00	STD
			1.50	R IF CR P	KG 1		
			3.00	DSF CR P	KG 1		
In-line engine, diesel, E2304	82.00	82.00	2.00	HK CR P	ST	34008202-00	STD
			2.00	M IW P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, E2604	83.00	83.00	2.50	HK CR	KG 1	34008301-00	STD
			2.00	NM P	LG 1		
			4.50	DSF CR	KG 1		
In-line engine, diesel, E2804	86.00	86.00	2.50	R CR	KG 1	34008601-00	STD
			2.00	R IF CR	KG 1		
			4.50	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
HINOMOTO Cont.									
In-line engine, diesel, E184	88.00	2.50	R CR	KG 1	34008801-00	STD			
			NM IF P	LG 1			34008801-07	+ 0.50	
			4.00	DSF CR			KG 1		
In-line engine, diesel, E4704	97.00	2.50	T CR P	KG 1	34009701-00	STD			
		2.00	M P	LG 1					
		4.50	DSF CR P	KG 1					
HONDA									
In-line engine, fuel, G200	4	64.00	2.00	R CR	KG 1	15106401-00	STD		
			2.00	M P	LG 1				
			3.00	D P	LG 1				
In-line engine, fuel, G200	6	67.00	2.00	R CR	KG 1	15106701-00	STD		
			2.00	NM P	LG 1				
			3.00	DSF CR	KG 1				
In-line engine, fuel, GX 160	4	68.00	1.50	R CR P	KG 1	15106801-00	STD		
			1.50	M P	LG 1			15106801-05	+ 0.25
			2.50	DSF CR P	LG 1			15106801-07	+ 0.50
In-line engine, fuel, GX220	4	70.00	1.50	R CR P	KG 1	15107001-00	STD		
			1.50	M P	LG 1			15107001-05	+ 0.25
			2.50	SLF CR	ST			15107001-07	+ 0.50
In-line engine, fuel, 1.3l EJ, EN, EB3 Vehicle: Civic, Ballade	4	72.00	1.50	R CR	KG 1	15107201-00	STD		
			1.50	M P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, fuel, 1.5l D15, D15B, D15B1, D15B2, PM3, PM4 Vehicle: Civic, CRX, Partner	4	75.00	1.20	R CR	ST	15107501-00	STD		
			1.50	NM P	LG 1			15107501-07	+ 0.50
			2.80	SLF CR	ST				
In-line engine, fuel, 1.7l D17A1	4	75.00	1.00	R IF CR	ST	15107502-00	STD		
			1.20	NM P	KG 2				
			2.00	SLF CR	ST				
In-line engine, fuel, 1.6l D15Z1, D16Y5, D16Y7, D16Y8 Vehicle: Civic 1500, 1600	4	75.00	1.00	R IF CR P	ST	15107503-00	STD		
			1.20	NM P	KG 2			15107503-07	+ 0.50
			2.80	SLF CR	ST				



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HONDA Cont.							
In-line engine, fuel, 1.8l EK, EP Vehicle: Prelude	4	77.00	1.50	R CR	KG 1	15107701-00	STD
			1.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.8l R18A1 Vehicle: Cross Road, Civic, Stream	4	81.00	1.20	R IF CR	ST	15108101-00 15108101-05 15108101-07	STD + 0.25 + 0.50
			1.20	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 2.0l R20A Vehicle: Accord, Step Wagon, Stream, CR-V	4						
In-line engine, fuel, 2.0l B20B4, B20Z2, P3F Vehicle: CRV	4	84.00	1.20	R IF CR P	ST	15108401-00	STD
			1.20	NM P	KG 2		
			2.80	SLF CR	ST		
In-line engine, fuel, 1.9l F18A Vehicle: Accord	4	85.00	1.20	R IF CR P	ST	15108501-00 15108501-07	STD + 0.50
			1.20	NM P	KG 2		
			2.80	SLF CR P	ST		
2.0l SM4 F22A F22B, F22A1 Vehicle: Accord	4						
In-line engine, fuel, 2.0l PNE, K20A1 Vehicle: CIVIC, CR-V	4	86.00	1.20	R CR	ST	15108601-00	STD
			1.20	NM IF P	KG 2		
			2.00	SLF CR P	ST		
In-line engine, fuel, 2.4l RBB Vehicle: TSX	4	87.00	1.20	R CR	ST	15108701-00 15108701-07 15108701-11	STD + 0.25 + 0.50
			1.20	NM P	KG 2		
			2.50	SLF CR P	ST		
In-line engine, fuel, 2.4l K24A3, K24A4, K24A8, K24Z1 Vehicle: CR-V	4	87.00	1.20	R CR	ST	15108702-00	STD
			1.20	NM P	KG 2		
			2.00	SLF CR P	ST		
In-line engine, fuel, 390	4	88.00	2.00	R CR P	KG 1	15108801-00 15108801-05 15108801-07	STD + 0.25 + 0.50
			2.00	M P	LG 1		
			2.80	DSF CR P	KG 1		
In-line engine, fuel, 3.2l J32, J35A Vehicle: Odyssey	V6	9.00	1.20	R CR	ST	15108901-00	STD
			1.20	M IFU P	LG 1		
			2.80	SLF CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HONDA Cont.							
In-line engine, fuel, GX420	4	90.00	2.00	R CR P	KG 1	15109001-00	STD
			2.00	M P	LG 1	15109001-05	+ 0.25
			2.80	SLF CR	ST	15109001-07	+ 0.50
In-line engine, fuel, GX440	4	92.00	2.00	R CR P	KG 1	15109201-00	STD
			2.00	M P	LG 1	15109201-05	+ 0.25
			2.80	SLF CR	ST	15109201-07	+ 0.50
HYUNDAI							
In-line engine, fuel, 1.0l 80HC Vehicle: Atos	4	66.00	1.20	R CR P	ST	15206600-00	STD
			1.20	M P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.3l G4EA, G4K, G4N, G4EH Alpha 1.3 Vehicle: Accent, ES, Multi, RS, Click Getz 1.3i 12V, Verna	4	71.50	1.50	R CR	KG 1	15207100-00 15207100-07	STD + 0.50
			1.50	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.3l G4EA, G4K, G4N, G4EH Alpha 1.3 Vehicle: Accent, ES, Multi, RS, Click Getz 1.3i 12V, Verna	4	71.50	1.50	R CR P	KG 1	15207101-00 15207101-07	STD + 0.50
			1.50	M P	LG 1		
			3.00	SLF CR	ST		
In-line engine, fuel, 1.3l MPI Vehicle: Click	4	71.50	1.20	R IF CR P	ST	15207102-00 15207102-07	STD + 0.50
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel,	4	71.50	1.00	R CR P	ST	15207103-00	STD
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.2l G4LA Vehicle: i10, 20, 23040-03220	4	71.00	1.00	R IF CR	ST	15207104-00	STD
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.0l G3LA Vehicle: i10, 23040-03000	3	71.00	1.00	R IF CR	ST	15207105-00	STD
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HYUNDAI Cont.							
In-line engine, fuel, 1.5l G4EK Vehicle : Accent, Avante, Verna, Lantra, Elantra	4	75.50	1.20	R CR	ST	15207501-00 15207501-07	STD + 0.50
			1.50	M P	LG 1		
			3.00	SLF CR	ST		
In-line engine, diesel, 1.1l DF3A Vehicle: i10	3	75.00	1.75	R IF CR	KG 1	15207502-00 15207502-07	STD + 0.50
			1.75	R IW CRP	KG 1		
			3.00	DSFST CR	ST		
1.5l D4FA Vehicle: Elentra, Getz, i20, Matrix	4						
In-line engine, fuel, 1.5l G4AE, G4EK, Alpha 1.5 Vehicle: Accent S, S-Coupe, Accent, Elantra, Verna, Lantra1.5i 12V	4	75.50	1.50	R CR P	KG 1	15207503-00 15207503-07	STD + 0.50
			1.50	M P	KG 1		
			3.00	SLF CR	ST		
In-line engine, fuel, 1.5l G4AJ Vehicle: Click	4	75.50	1.20	R IF CR	ST	15207504-00 15207504-07	STD + 0.50
			1.20	NM P	KG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.6l G4ED, Alpha 1.6 D Vehicle: Click, Elantra 1.6, Accent	4	76.50	1.20	R IF CR	ST	15207601-00 15207601-05 15207601-07	STD + 0.25 + 0.50
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.6l G4ED, Alpha 1.6 Vehicle: Elantra, Santa Fe	4	76.50	1.20	R IF CR	ST	15207602-00 15207602-07	STD + 0.50
			1.20	NM P	KG 2		
			2.50	SLF CR	ST		
In-line engine, diesel, 1.6l D4FB Vehicle: ELANTRA 1.6 CRDi, ACCENT 1.6 CRDi, ix20 1.6 CRDi, ELANTRA 1.6 CRDi, i30 1.6 CRDi, i20 1.6 CRDi	4	77.20	1.75	R CR	KG 1	15207701-00	STD
			1.75	NM P	LG 1		
			3.00	DSFST CR	ST		
1.7l D4FD Vehicle: i40 1.7 CRDi, ix35 1.7CRDi							



Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
HYUNDAI Cont.									
In-line engine, fuel, 1.6l G4FD Vehicle: VELOSTER, i30, i40, ix35, TUCSON	4	77,00	1.20	R IF CR P	ST	15207702-00	STD		
			1.20	NM P	KG 2	15207702-05	+ 0.25		
			2.00	SLF CR	ST	15207702-07	+ 0.50		
						15207702-09	+ 0.75		
						15207702-11	+ 1.00		
In-line engine, fuel, 1.8l 2K0, Nu 1.8L Vehicle: Elantra 11	4	81,00	1.00	R CR	ST	15208101-00	STD		
			1.20	NM P	KG 2	15208101-07	+ 0.50		
			2.00	SLF CR	ST	15208101-11	+ 1.00		
In-line engine, fuel, 1.8l G4GB, G4GF, G4GN, Beta 1.8 Vehicle: Vante, Tiburon, Matrix 1.8 2.0l G4GF, G4GN, G4GM, G4JP, G4CP, G4GB, G4DM, G4GC Vehicle: Lantra, Elantra, Tiburon, Matrix, Avante, Trajet 2.0, Avante 2.0, Tucson	4	82,00	1.20	R CR	ST	15208201-00	STD		
			1.20	M IF P	KG 2				
			2.50	DSF CR P	KG 1				
In-line engine, fuel, 2.0l G4GC, G4GF, BETA 2.0 Vehicle: Elantra, Touring, Coupe, Tucson	4	82,00	1.20	R CR	ST	15208202-00	STD		
			1.20	NM P	LG 1			15208202-07	+ 0.50
			2.00	SLF CR	ST				
In-line engine, fuel, 1.8l G4GB, BETA 1.8 Vehicle: Avante, Tiburon, Elantra	4	82,00	1.20	R IF CR	ST	15208203-00	STD		
			1.20	M P	LG 1			15208203-07	+ 0.50
			2.50	SLF CR	ST				
In-line engine, diesel, 1.5l D3EA Vehicle: Getz, Matrix, Accent 1.5 CRDi	3	83,00	2.00	T CR	KG 1	15208301-00	STD		
			2.00	M IFU CR	KG 1			15208301-07	+ 0.50
			3.00	DSFST CR	ST				
2.0l D4EA Vehicle: Elantra, Trajet, Spectra, Tucson, i30, Santa Fe, Grandeur	4								
In-line engine, diesel, 2.0l R-Line 2.0 Vehicle: iX35, Santa Fe, Tucson	4	84,00	2.50	T CR	KG 1	15208401-00	STD		
			2.00	M IFU P	LG 1				
			3.00	DSFST CR	ST				
In-line engine, diesel, 2.2l R-Line 2.2, D4HB Vehicle: Santa Fe, Grandeur	4	85.40	2.50	T CR	KG 1	15208501-00	STD		
			2.00	M IFU P	LG 1				
			3.00	DSFST CR	ST				
In-line engine, fuel, 2.0l G4CP Vehicle: Sonata	4	85.00	1.20	R IF CR P	ST	15208502-00	STD		
			1.50	NM IF P	LG 1				
			2.80	SLF CR	ST				



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
HYUNDAI Cont.							
In-line engine, fuel, 2.0l THETA II Vehicle: NF Sonata 2.0L	4	86.00	1.20	R IF CR	ST	15208601-00 15208601-07	STD + 0.50
			1.20	NM IF P	LG 1		
			2.00	SLF CR	ST		
In-line engine, diesel, 2.2l D4EB Vehicle: Santa Fe 2.2 CRDI	4	87.00	2.50	TCR P	KG 1	15208700-00 15208700-07	STSTD + 0.50D
			2.00	M IW CRP	KG 1		
			3.00	DSFST CR	ST		
In-line engine, fuel, 2.4l G4KC Vehicle: Sonata	4	88.00	1.20	R IF CRP	ST	15208801-00 15208801-07 15208801-09 15208801-11	STD + 0.50 + 0.75 + 1.00
			1.20	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 2.6l D4BA, D4BB, D4BC Vehicle: Porter, H100	4	91.10	2.00	R CR P	KG 1	15209101-00 15209101-07	STD + 0.50
			2.00	M IW CR	KG 1		
			3.00	DSF CR P	KG 1		
In-line engine, diesel, 2.5l, D4CB CRDI Vehicle: SORENTO 2.5 CRDI	4	91.00	2.50	HK CR P	KG 1	15209102-00 15209102-07	STD + 0.50
			2.00	M IW CR	KG 1		
			3.00	DSFST CR P	ST		
In-line engine, diesel, 2.3l Vehicle: Van Grace	4	91.10	2.50	R IF CR	KG 1	15209103-00 15209103-07	STD + 0.50
			2.00	M CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 3.3l G6DB LAMBDA Vehicle: Grandeur, Azera, Santa Fe, Sonata	6	92.00	1.20	R CR	ST	15209201-00 15209201-07	STD + 0.50
			1.20	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 3.8l LAMBDA Vehicle: Grandeur, Genesis, Azera, Entourage, Veracruz	6	96.00	1.20	R CR	ST	15209601-00 15209601-07	STD + 0.50
			1.20	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, diesel, 3.3l D4AE, D4AL Vehicle: MIGHTY 3.5 ton	4	100.00	3.00	T IF CR	KG 1	15210001-00 15210001-07	STD + 0.50
			2.00	R IW CR	KG 1		
			4.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
IFA							
Please see ZETTI							
IHC							
In-line engine, diesel, 2.1l G126 Vehicle: A125 - 126 CID		79.38	2.38 2.38 4.76	R CR P M IF P DSF CR P	KG 1 LG 1 KG 1	15407901-00	STD
In-line engine, diesel, 1.1l DD 66 Vehicle: Traktor D 214 S/DLD-2/D 212/D215	2	82.55	2.38 2.38 2.38 4.76 4.76	R CR M P M P D P D P	KG 1 LG 1 LG 1 LG 1 LG 1	15408201-00	STD
1.6l Vehicle: Traktor D 320 S/D 322/DED 3	3						
2.1l Vehicle: Traktor D 430 S/D 432/D440/DGD 4	4						
In-line engine, diesel, 1.8l 108 CID Vehicle: VH4		82.55	2.38 2.38 2.38 4.76	R CR P M IFU P M IFU P DSF CR P	KG 1 LG 1 LG 1 KG 1	15408202-00	STD
In-line engine, diesel, 2.2l 133 CID Vehicle: FC Waukesha Flex							
In-line engine, gas, C135		82.55	2.38 2.38 4.76	R CR P M IF P DSF CR P	KG 1 LG 1 KG 1	15408203-00	STD
B250 - B414 , 3414 BD144 / BDC	4	85.72	2.38 2.38 2.38 4.76 4.76	R CR M IF P M IF P G P G P	KG 1 LG 1 LG 1 LG 1 LG 1	15408501-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
IHC Cont.							
In-line engine, diesel, 1.2l Vehicle: Traktor D 217 S/F,D 219	2	87.31	2.38	R CR	KG 1	15408701-00	STD
			2.38	M P	LG 1		
	3	4.76	2.38	M P	LG 1		
			4.76	G P	LG 1		
1.8l DD 111,DU 11 Vehicle: Traktor D 323/D 324 S/D 326,Mahdrescher D 8-62	3	87.31	2.38	M P	LG 1	15408702-00	STD
			2.38	M IFU P	LG 1		
	4	88.90	2.38	M IFU P	LG 1		
			4.76	DSF CR P	KG 1		
2.4l DD 148,DU 148 D Vehicle: Traktor D 436 S/D 438 S/DTD 5,439	4	87.31	2.38	R CR P	KG 1	15408801-00	STD
			2.38	M IFU P	LG 1		
	3	4.76	2.38	M IFU P	LG 1		
			4.76	DSF CR P	KG 1		
In-line engine, gas, 2.0l 124 CID Vehicle: VA124	4	88.90	2.28	R CR	KG 1	15409001-00	STD
			2.38	M IF P	LG 1		
	4	88.90	2.38	NM P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, gas, 2.4l 148 CID Vehicle: G148	4	88.90	2.28	R CR	KG 1	15409002-00	STD
			2.38	M IFU P	LG 1		
	4	88.90	2.38	M IFU P	LG 1		
			6.35	DSF CR P	KG 1		
In-line engine, diesel, 2.5l BD154 Vehicle: 500 Loader,7000 Fork Lift,B238,B2424,B2444,B384, B3444,BD154 Tractors OEM :3114778R91	4	88.90	2.28	R CR	KG 1	15409001-00	STD
			2.38	M IFU P	LG 1		
	4	88.90	2.38	M IFU P	LG 1		
			6.35	DSF CR P	KG 1		
In-line engine, diesel, 2.5l BD154 Vehicle: 500 Loader,7000 Fork Lift,B238,B2424,B2444,B384, B3444,BD154 Tractors OEM :3114778R91	4	88.90	2.28	R CR	KG 1	15409002-00	STD
			2.38	M IFU P	LG 1		
	4	88.90	2.38	M IFU P	LG 1		
			6.35	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
IHC Cont.							
In-line engine, diesel, TM27		91.00	2.00	R CR	KG 1	15409101-00	STD
			2.00	M IF P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel,		92.07	2.38	R CR	KG 1	15409201-00	STD
			2.38	M IFU P	LG 1		
			2.38	M IFU P	LG 1		
			6.35	DSF CR P	KG 1		
In-line engine, diesel, 2.7l 166 CID Vehicle: D166, (S40358)	4	93.68	3.17	HK CR P	KG 1	15409301-00	STD
			3.17	M P	LG 1		
			6.35	DSF CR P	KG 1		
In-line engine, gas, D282 Vehicle: 560D, 656D, 660D, 706, 2656D, 2706		93.68	3.17	HK CR P	KG 1	15409302-00	STD
			3.17	M IFU P	LG 1		
			6.35	DSF CR P	KG 1		
In-line engine, diesel, Crawker Tractor 310E-310F- 310G-350-450 Whell Tractor 630 Combine 600 -660 430 - 440 - 441 - 470 - 480 -530	4	96.84	3.17	T IW CR	KG 1	15409601-00	STD
			2.38	M IF P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel,		96.84	3.17	T IW CR P	KG 1	15409603-00	STD
			2.38	R IF CR P	KG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 2.4l DD 155,D 179,DD 206, D 239 Vehicle: Tractor	4	98.42	3.16	T CR	KG 1	15409801-00	STD
			3.16	M P	LG 1		
			3.16	NM P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 5.9l D,UD179/D,DD239 Vehicle: XV633,2400 Loader,4500 Forklift,2500A,B Series Tractors,TDE7 PS,DOZER	6	98.42	3.16	R CR	KG 1	15409802-00	STD
			2.38	NM P	LG 1		
			4.76	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
IHC Cont.							
In-line engine, diesel, 2.4l D 155, UD 155 Vehicle: Tractor	3	98.42	3.16	T CR	KG 1	15409803-00	STD
			2.38	M P	LG 1		
			4.76	DSF CR P	KG 1		
	2.9l	3					
	D 179, UD 179 Vehicle: 240, 454, 464, 484, 523, 553						
3.9l D 239, DT 239 Vehicle: 684, 744, 452, 3500, 609 Tractor	4						
5.1l D 310, UD 310 Vehicle: Tractor, Combine, Crawler, Hydro	6						
5.9l D 358, DT 358 Vehicle: Tractor, combine 530, 640, 650, 1255, 1246, 953	6						
In-line engine, diesel, 2.4l D 155, UD 155 Vehicle: Tractor	3	98.42	3.16	T CR	KG 1	15409804-00	STD
			2.38	R IW CR	KG 1		
			4.76	DSF CR	KG 1		
	2.9l	3					
	D 179, UD 179 Vehicle: 240, 454, 464, 484, 523, 553						
3.4l D 206, UD 206 Vehicle: Tractor	4						

Make - Engine - Model	 No Ø mm.		Ring type	Material	Powerseal No	Size	
IHC Cont.							
In-line engine, diesel, 2.3l D 179 Vehicle: 633 OEM.3218416R92	3	98.42	3.16 2.38 4.76	R CR R IW CR DSF CR	KG 1 KG 1 KG 1	15409805-00	STD
2.5l D 155, UD 155 Vehicle: Tractor, Payloader	3						
3.4l D 206, UD 206 Vehicle: Tractor	4						
3.9l D 239 Vehicle: 684, 744, 3500, 125B II	4						
5.0 l D 310, UD 310 Vehicle: Crawler, Tractor, Combine, Hydro	6						
5.9l D 358 Vehicle: Tractor, combine	6						
In-line engine, diesel, D 179, D 239, D 358		98.42	3.16 2.38 2.38 4.76	T CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	15409806-00	STD
In-line engine, diesel,		98.42	3.16 2.38 4.76	R CR P M IF CR P DSF CR P	KG 1 KG 1 KG 1	15409807-00	STD
In-line engine, diesel,		98.42	3.17 2.38 4.76	T IW CR P M IF CR P DSF CR P	KG 1 KG 1 KG 1	15409808-00	STD
In-line engine, diesel, 4.0l D 246 Vehicle: Tractor 784, 824 A, 844 A Hydro 84	4	100.00	3.16 2.38 4.76	R CR M P DSF CR	KG 1 LG 1 KG 1	15410001-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
IHC Cont.							
In-line engine, diesel, 4.4l D 268 Vehicle: Tractor 270 TD 8 C.844 S	4	100.00	3.16 2.38 4.76	T CR NM P DSF CR	KG 1 LG 1 KG 1	15410002-00	STD
In-line engine, diesel, 4.4l D 268 OEM:3144977R91 Vehicle: Tractor 270 TD 8 C.844 S	4	100.00	3.16 2.38 4.76	T CR R IW CR DSF CR	KG 1 KG 1 KG 1	15410003-00	STD
In-line engine, diesel, 6.6l DT 402 Vehicle: 1455 Tractor,650 HD Jumbo, 530 Payloader,3994 Jumbo,953 Combine	6	100.00	3.16 3.16 4.76	T CR TM CR DSF CR	KG 1 KG 1 KG 1	15410004-00	STD
In-line engine, diesel, 4.4l D 268,OEM:3218669R91 Vehicle: Tractor 270	4	100.00	3.16 2.38 4.76	R CR R IW CR DSF CR	KG 1 KG 1 KG 1	15410005-00	STD
6.6l D 402 Vehicle: Tractor 270 A, TD 8 C, 844 S 845 510 Payloader	6						
In-line engine, diesel, CX 100, CX 70, CX 80, CX 90		100.00	3.50 2.50 3.50	T CR NM P DSF CR	KG 1 LG 1 KG 1	15410006-00	STD
In-line engine, diesel, 4.3l OHV, BD264 Vehicle: BMD/BTD/BWD	4	101.60	2.38 2.38 2.38 6.33 6.33	R CR M P M P D P D P	KG 1 LG 1 LG 1 LG 1 LG 1	15410101-00	STD
In-line engine, diesel, 5.9l 360 CID Vehicle: DT360, DTA360 (S41515)	6	101.85	3.17 3.17 4.00	T CR T P DSF CR	KG 1 KG 1 KG 1	15410102-00	STD
In-line engine, diesel, 3.4l 207 CID Vehicle: Sleeved Engine, (S41161)	4	101.60	3.17 2.38 4.76	T CR P M I F P DSF CR P	KG 1 LG 1 KG 1	15410103-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel,		101.60	2.38 2.38 2.38 6.35	R CR P M IFU P M IFU P DSF CR P	KG 1 LG 1 LG 1 KG 1	15410104-00	STD
In-line engine, diesel, W11, 450B, 455B, 580C, 580D, 584C, 585C, 586C	6	101,60	3.17 2.38 4.76	T CR P M IF P DSF P	KG 1 LG 1 LG 1	15410105-00	STD
In-line engine, diesel, 5.9l 361 CID Vehicle: D361, DT361, (S40610)	6	104.78	3.17 2.38 6.35	T IW CR P M IF P DSF CR P	KG 1 LG 1 KG 1	15410401-00	STD
In-line engine, diesel,		104.78	2.38 2.38 2.38 6.35	R CR P M IFU P M IFU P DSF CR P	KG 1 LG 1 LG 1 KG 1	15410402-00	STD
In-line engine, diesel,		104.78	2.38 2.38 6.35	R IF CR P M IF P DSF CR P	KG 1 LG 1 KG 1	15410403-00	STD
In-line engine, diesel, 4.7l DT-466B Vehicle: Tractor 3588,3788,4386, 5288,5488	4	109.21	3.17 3.17 6.33	T CR P TM CR P DSF CR P	KG 1 KG 1 KG 1	15410901-00	STD
In-line engine, diesel, 7.6l 466 CID Vehicle: DT466C,DTA466C,DT466E (S41781)	6	109.21	3.17 3.17 4.00	T CR TM CR P DSF CR	KG 1 KG 1 KG 1	15410902-00	STD
In-line engine, diesel, 6.7l 407 CID Vehicle: D407, DT407, (S40871)	6	109.72	3.17 2.38 6.35	T CR P M IF CR P DSF CR P	KG 1 KG 1 KG 1	15410903-00	STD
In-line engine, diesel, 4.7l DT-466B Vehicle: Tractor 3588,3788,4386, 5288,5488		109.21	3.17 3.17 6.35	T CR P TM P DSF CR P	KG 1 LG 1 KG 1	15410906-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel,		109.21	3.17 3.00 4.00	T CR M IFU P DSF CR P	KG 1 LG 1 KG 1	15410907-00	STD
In-line engine, diesel, 7.6l DT466 Vehicle: DuraStar 4900	8	109.21	3.17 3.17 6.35	T CR TM P DSF CR P	KG 1 LG 1 KG 1	15410908-00	STD
In-line engine, diesel, 7.4l 451 CID Vehicle: A451BDT, (S41117), Sleeved Engine	6	111.12	3.17 3.17 4.76	T IF CR P T IW CR P DSF CR P	KG 1 KG 1 KG 1	15411101-00	STD
In-line engine, diesel, 7.4l 451 CID Vehicle: A451D, A451BDT, (S40776), Sleeved Engine	6	111.12	2.38 2.38 2.38 6.35	R CR P M IF P M IF P DSF P	KG 1 LG 1 LG 1 LG 1	15411102-00	STD
In-line engine, diesel, 7.4l 451 CID Vehicle: A451BD		111.12	2.38 2.38 6.35	R CR P R IF CR P DSF CR P	KG 1 KG 1 KG 1	15411103-00	STD
In-line engine, diesel,		111.12	2.38 2.38 2.38 6.35	R CR P R IF CR P R IF CR P DSF CR P	KG 1 KG 1 KG 1 KG 1	15411104-00	STD
In-line engine, diesel, DvT-573B Vehicle: PH-65 C,H-90C,Scraper 270,E-270 Crawler TD-20 C	6	114.30	3.17 3.17 6.33	T CR P T CR P DSF CR	KG 1 KG 1 KG 1	15411401-00	STD
In-line engine, diesel, DvT-573B Vehicle: PH-65 C,H-90C,Scraper 270,e-270 Crawler TD-20 C	4	114.30	3.17 2.38 6.33	T CR P R CR DSF CR	KG 1 KG 1 KG 1	15411402-00	STD
In-line engine, diesel, 5.9l DVT-573B Vehicle: Hauler PH-65C Loader H-90C,Scraper 270,E-270Crawler TD-20C	6	114.30	3.17 2.38 6.33	T CR P HK CR P DSF CR P	KG 1 KG 1 KG 1	15411403-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
IHC Cont.							
In-line engine, diesel,		116.55	3.50 3.17 4.00	T CR T IW P DSF CR P	KG 1 LG 1 KG 1	15411601-00	STD
In-line engine, diesel, Excavator 980B Wheel Tractor 1370-1470-1570-22900- 2390-2470-2590	4 6	117.47	2.38 2.38 4.76	R IF CR M IF P DSF CR	KG 1 LG 1 KG 1		
In-line engine, diesel, 8.3l 504 CID Vehicle: A504BDT, A504BDTI (S41117) Sleeved Engine	6	117.47	3.17 3.17 4.76	T IW CR P T IW P DSF CR	KG 1 LG 1 KG 1		
In-line engine, diesel, A336, BDT, 504 DTI, 504BDT, A504BDT	6	117.47	3.17 3.17 4.76	T IW CR P TM IW CR P DSF CR	KG 1 KG 1 KG 1	15411703-00	STD
In-line engine, diesel, Crawler TD25B, DT/DTI-817B	6	136,52	3.16 3.16 6.33	T CR T IW CR DSF CR	KG 1 KG 1 KG 1	15413601-00	STD
ISEKI							
In-line engine, diesel, TU13F (6-26-100-51)		70.00	2.50 2.50 4.00	HK IFU CR P M P DSF CR P	KG 1 LG 1 KG 1	15707001-00	STD
In-line engine, diesel, 650-040-660-00		73.00	2.50 2.00 2.00 4.00	HK CR M IF P NM P DSF CR P	KG 1 LG 1 LG 1 KG 1		
In-line engine, diesel, E393, E3100 6212-121-008-00		74.00	2.00 2.00 4.00	R CR M IW CR DSFST CR P	KG 1 KG 1 ST	15707401-00	STD
In-line engine, diesel,		76.00	2.00 2.00 4.00	R CR R IF CR DSFCR P	KG 1 KG 1 KG 1	15707601-00	STD
In-line engine, diesel, 6212-121-003-00		78.00	2.50 2.50 2.50 4.00	HK CR P M P NM P DSF CR P	KG 1 LG 1 LG 1 KG 1	15707801-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ISEKI Cont.							
In-line engine, diesel, E3112 6212-121-014-20		78.00	2.00	R NIT	ST	15707802-00	STD
			2.00	R IW CR P	KG 1		
			4.00	DSFST CR	ST		
In-line engine, diesel, E3AF1 - TU324		80.00	2.00	R CR	KG 1	15708001-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, E3AG1, TA525 6894-224-221-00		84.00	2.50	R CR	KG 1	15708401-00	STD
			2.00	R IF CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, E3CE 6212-121-015-20		85.00	2.00	R CR	KG 1	15708501-00	STD
			2.00	N CR	KG 1		
			4.00	DSFST CR	ST		
In-line engine, diesel, 1700 ,1910 Vehicle : Tractor 6212-121-010-10	2	86.00	2.00	R CR	KG 1	15708601-00	STD
			2.00	R CR	KG 1		
			2.00	NM P	LG 1		
			5.00	DSF CRP	KG 1		
In-line engine, diesel, TG23- TG25-TK25 6212-121-020-20	2	86.00	2.00	B IF CR P	KG 1	15708602-00	STD
			2.00	N CR P	KG 1		
			4.00	DSFST CR	ST		
In-line engine, diesel, E3AD1 6212-121-001-10		86.00	2.50	R CR	KG 1	15708603-00	STD
			2.00	R CR P	KG 1		
			5.00	DSF CR P	LG 1		
ISUZU							
In-line engine, diesel, 0.7l 3KA1, 3KB1 Vehicle: Industrial	3	70.00	2.00	R CR P	KG 1	15607001-00	STD
			1.50	M P	LG 1		
			3.50	DSF CR P	KG 1		
In-line engine,diesel, 3KR1 Vehicle: Industrial	3	81.00	2.00	R CR	KG 1	15608101-00	STD
			1.75	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine,diesel, 4LE1		85.00	2.00	R CR	KG 1	15608501-00	STD
			1.75	M IF P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 2.0l C190 Vehicle : Elf150 2.4l C240 Diesel Vehicle : Elf250	4	86.00	2.50	R CR	KG 1	15608601-00	STD
			2.00	NM P	LG 1		
			5.00	DSF CR P	KG 1		
	4						

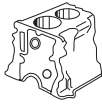

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ISUZU Cont.							
In-line engine, diesel, 2.0l C190 Vehicle : Elf TLD 13	4	86.00	2.00	R CR	KG 1	15608602-00	STD
2.4l C240 Diesel Vehicle : TLD43			2.00	M P	LG 1		
			2.00	NM P	LG 1		
			5.00	DSF CR P	KG 1		
In-line engine, diesel, C240PKG Chrome Plated Cylinder	4	86.00	2.50	R P	LG 1	15608603-00	STD
			2.00	NM P	LG 1		
			5.00	DSF P	LG 1		
In-line engine,diesel, 1.95l C190, C240 Diesel Vehicle: Elf Chrome Plated Cylinder	4	86.00	2.00	R P	LG 1	15608604-00	STD
			2.00	M P	LG 1		
			2.00	NM P	LG 1		
			5.00	DSF P	LG 1		
In-line engine, diesel, 2.2l C223 Diesel Vehicle : Rodeo, Bighorn	4	88.00	2.50	R CR	KG 1	15608801-00	STD
			2.00	NM P	LG 1		
			4.50	DSF CR	KG 1		
In-line engine,diesel, 2.2l C223 Vehicle: Rodeo, Bighorn Chrome Plated Cylinder	4	88.00	2.00	R P	LG 1	15608802-00	STD
			2.00	NM P	LG 1		
			4.00	GSF P	LG 1		
In-line engine, diesel, 2.8l 4JB1 Vehicle : Truck, Elf 150	4	93.00	2.00	R CR	KG 1	15609301-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2.8l 4JB1 Vehicle: Truck, Elf 150, Chrome plated cylinder	4	93.00	2.00	R P	LG 1	15609302-00	STD
			2.00	NM P	LG 1		
			4.00	DSF P	LG 1		
In-line engine, diesel, 3.0l 4JJ1-TC Vehicle: Truck Elf	4	95.40	2.00	HK CR P	ST	15609501-00	STD
			1.50	N P	LG 1		
			3.00	DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, 3.3l, C330 Vehicle: Elf 250 (Chrome Liner)	4	98.00	3.00 2.50 5.00	R P NM P DSF P	LG 1 LG 1 LG 1	15609801-00	STD
In-line engine, diesel, 6.1l, DA120 Vehicle: BUS , BA341,343,351,541,543 BB341,351,551,BX352,531,552	6	100.00	2.50 2.50 2.50 5.00	R CR P M IW P NM P DSF CR P	LG 1 LG 1 LG 1	15610001-00	STD
In-line engine,diesel, 3.3l 4BC Vehicle: Elf, Journey	4	102.00	3.00 2.50 5.00	R CR M P DSF CR	KG 1 LG 1 KG 1	15610201-00	STD
In-line engine, diesel, 3.2l, 4BC Vehicle: Elf, Journey (Chrome Liner)	4	102.00	3.00 2.50 5.00	R P NM P DSF P	LG 1 LG 1 LG 1	15610202-00	STD
In-line engine, diesel, 6.4l, DA640S-T Vehicle: Forklift	6	102.00	3.50 2.50 2.50 5.00	T CR P M IW CRP NM P DSF CR P	KG 1 KG 1 LG 1 KG 1	15610203-00	STD
In-line engine, diesel, 3.6l, 4BB1 Vehicle: Elf, Journey (Chrome Liner)	4	102.00	3.00 2.50 5.00	M P NM P DSF P	LG 1 LG 1 LG 1	15610204-00	STD
In-line engine, diesel, 4.4l 4BG1 Diesel Vehicle : Elf	4	105.00	3.00 2.50 4.00	R CR P NM P DSF CRP	KG 1 LG 1 KG 1	15610501-00	STD
6.5l 6BG1 Diesel Vehicle : Forward	6						

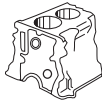

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, 3.6l, 4BE1 Vehicle: Truck, Elf 2ton (Chrome Liner)	4	105.00	3.00 2.50 5.00	R P NM P GSF P	LG 1 LG 1 LG 1	15610502-00	STD
In-line engine, diesel, 4HE1-TC	4	110.04	3.00 2.00 1.20 3.00	HK CR R CR R CR DSFST CR	ST ST ST ST	15611001-00	STD
In-line engine, diesel, 4.4l 4HF1 Diesel Vehicle : Elf	4	112.00	3.00 2.50 4.00	HK CR M CR DSF CR	KG 1 KG 1 KG 1	15611201-00	STD
In-line engine, diesel, 4.3l 4HF1 Vehicle : Elf	4	112.00	3.00 2.50 4.00	R CR N CR P DSFST CR	KG 1 KG 1 ST	15611202-00	STD
In-line engine,Diesel, 8.2l 6HH1	6	115.00	3.50 2.50 4.00	R CR M CR P DSF CR	KG 1 KG 1 KG 1	15611501-00	STD
In-line engine,Diesel, 4HG1	4	115.00	3.00 2.50 4.00	HK CR M CR P DSF CR	KG 1 KG 1 KG 1	15611502-00	STD
In-line engine,Diesel, 12.0l E120/T Vehicle: TGK55E, TMK05E 1-12121-015-0	6	135.00	4.00 2.50 7.00	R CR R CR DSF CR	KG 1 KG 1 KG 1	15613501-00	STD

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
YBORA							
In-line engine, diesel,		75.00	2.00	R CR P	KG 1	15507501-00	STD
			1.50	R CR P	KG 1	15507501-07	+ 0.50
			4.00	DSF CR	KG 1	15507501-11	+ 1.00
In-line engine, diesel, SD300		75.00	2.50	T CR	KG 1	15507502-00	STD
			2.00	M P	LG 1		
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, D26-28		77.00	2.00	HK IFU CR	KG 1	15507701-00	STD
			1.50	NM P	LG 1	15507701-07	+ 0.50
			3.00	DSF CR	KG 1	15507701-11	+ 1.00
In-line engine, diesel, SD1540/1840		80.00	3.00	HK CR	KG 1	15508001-00	STD
			2.50	M IF P	LG 1		
			2.50	M IF P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, P19 / P21		84.00	2.00	HK CR P	KG 1	15508401-00	STD
			1.50	R IW CR P	KG 1	15508401-07	+ 0.50
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 2.2l N843L, N844L	4	84.00	2.00	R CR	KG 1	15508402-00	STD
			1.50	R IW CR P	KG 1		
			3.00	DSFST CR P	ST		
In-line engine, diesel, LEP 854-A Vehicle: BURTRAK	4	85.00	2.50	HK CR P	KG 1	15508501-00	STD
			2.00	R IF CR	KG 1	15508501-07	+ 0.50
			2.00	NM P	LG 1	15508501-11	+ 1.00
			4.00	DSF CR P	KG 1		
In-line engine, diesel, SD2200 - 2640		85.00	3.00	HK CR P	KG 1	15508502-00	STD
			2.50	M IF P	LG 1		
			2.50	M IF P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, Shibaura		110.00	300	R CR	KG 1	15511001-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR P	KG 1		
JCB							
In-line engine, diesel, 4.4l, 444 T3 TC Vehicle: 3CX, 4CX	4	103.00	3.00	HK CR P	KG 1	15810301-00	STD
			2.50	M IWU P	LG 1	15810301-07	+ 0.50
			4.00	DSF CR	KG 1	15810301-11	+ 1.00
In-line engine, diesel, ECOMAX 444 (oem 320/09093)	4	103.00	3.00	T IW CR	KG 1	15810302-00	STD
			2.50	M IWU P	LG 1	15810302-07	+ 0.50
			4.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
JENBACHER							
In-line engine, diesel, JW 15	1	115.00	3.50	R CR	KG 1	15911501-00	STD
			3.50	M P	LG 1		
			3.50	NM P	LG 1		
			6.00	S P	LG 1		
			6.00	S P	LG 1		
In-line engine, diesel, JW30	4	125.00	4.00	T CR	KG 1	15912501-00	STD
			3.50	M P	LG 1		
			3.50	M P	LG 1		
			6.00	G P	LG 1		
			6.00	G P	LG 1		
In-line engine, diesel,		135.00	3.50	NM P	LG 1	15913501-00	STD
			3.50	NM P	LG 1		
			3.50	NM P	LG 1		
			6.00	G P	LG 1		
			6.00	G P	LG 1		
In-line engine, diesel,		140.00	3.50	R CR	KG 1	15914001-00	STD
			3.50	M P	LG 1		
			6.00	G P	LG 1		
In-line engine, diesel,		145.00	4.00	T CR	KG 1	15914501-00	STD
			3.00	M IF CR	KG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel,		190.00	5.00	R CR	KG 1	15919001-00	STD
			4.00	M IF CR P	KG 1		
			4.00	M IF CR P	KG 1		
			7.00	DSF CR P	KG 1		
In-line engine, diesel,		190.00	5.00	R CR	KG 1	15919002-00	STD
			4.00	M IF CR P	KG 1		
			7.00	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
JOHN-DEERE							
In-line engine, diesel, 2.5l 153.310/510 Vehicle: 820, 920	3	98.00	2.38	R IF CR	KG 1	16009800-00	STD
			2.38	M IFU P	LG 1		
			5.00	DSF CR	KG 1		
3.3l 204, 710 Vehicle: Tractor, Crawler, Skidder, combine	4						
4.7l 6303 DL 01 Vehicle: 3120	6						
5.5l 6303 DL 01 Vehicle: 3120 AR70633	6						
In-line engine, diesel,		98.42	2.38	R CR P	KG 1	16009801-00	STD
			2.38	M IFU P	LG 1		
			2.38	M IFU P	KG 1		
			4.76	DSF CR P			



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
JOHN-DEERE Cont.							
In-line engine, diesel, 2.7l 3164 DL 01-03 Tractor 1520,830,930,1020	3	102.00	3.17	T IF CR P	KG 1	16010201-00	STD
			2.38	M IFU P	LG 1		
			5.00	DSF CR	KG 1		
3.6l 4219 DL 01-03 Tractor 2120,2030,2035,2440	4						
5.4l 6329 DL 01-03 Tractor 3120,3030,3130,3135,4030 AR55759	6						
In-line engine, diesel, 2.7l 3164, DL 01R 3, 3164DL 03 Vehicle: 1520, 2120, TRACTOR 830, 930, 1020, 1030, 1035, 120, 1130, 1530, 2020, 2040, Combine 890, 925, 930	3	102.00	3.00	T CR	KG 1	16010202-00	STD
			2.38	M IF P	LG 1		
			5.00	DSF CR	KG 1		
3.6l 4219, DL 01 R 4, 4219 DL 03 Vehicle: 3120, 1520, 2120, 2030, 2520	4						
5.4l JD 329, R 6 / 6329, DL 01 R 6 Vehicle: 3120, 1520, 2120, 2030, 2520	6						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

JOHN-DEERE Cont.

In-line engine, diesel, 2.9l 300 NA, 3179 D/T,3239 DLO 1 Vehicle: 3030, 3040, 3050, 3130, 3350	3	106.50	3.17	T IF CR P	KG 1	16010601-00	STD
			2.38	M IFU P	LG 1		
			3.46	DSF CR P	KG 1		
3.9l 300 NA,300T, 4039/T, 4239A, 4239 DLO 1, 4239 T/TL, Vehicle: 840, 1040, 2040	4						
4.5l 300 NA, 300 T, 4045 T Vehicle: 6400	6						
5.9l 300 NA, 6059 D, 300 T, 6359 A/T 6359 DLO 1/DL/TZ 01/02, 659 T, 6059 T Vehicle: 840, 1040, 2040, 2030, 3040	6						
6.8l 300 NA, 6068 D,300 T, 6068 T Vehicle: 6506, 6800, 6900, 7400, 7600 RE15674	6						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
JOHN-DEERE Cont.							
In-line engine, diesel, 4.4l 4270 Vehicle: Wheel Loader JD500A To Serial no.123113	4	107.95	3.17	T IW CR	KG 1	16010702-00	STD
			2.38	R IF CR	KG 1		
			6.33	DSF CR	KG 1		
JD404 Vehicle: Wheel Loader JD600A To Serial no.214999	4						
4270 Vehicle: Wheel Loader JD500A To Serial no.123114-UP AR55630	4						
In-line engine, diesel, 6404 D Vehicle : 4040,4230 AR65502, RE23163	6	107.95	3.17	T CR	KG 1	16010703-00	STD
			2.38	M IFU P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel,		107.95	3.17	T CR P	KG 1	16010704-00	STD
			2.38	R IFU CR P	KG 1		
			4.76	DSF CR P	KG 1		
In-line engine, diesel,		107.95	3.17	T CR P	KG 1	16010705-00	STD
			2.38	M IF CR P	KG 1		
			6.33	DSF CR P	KG 1		
In-line engine, diesel, PR651		107.95	2.38	R CR P	KG 1	16010706-00	STD
			2.38	M IFU P	LG 1		
			2.38	M IFU P	LG 1		
			6.33	DSF CR	KG 1		
			6.33	D P	LG 1		
In-line engine, diesel,	1	107.95	2.38	R CR	KG 1	16010707-00	STD
			2.38	M IFU P	LG 1		
			2.38	M IFU P	LG 1		
			6.33	DSF CR	KG 1		

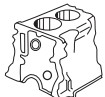

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

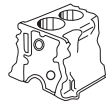

JOHN-DEERE Cont.

In-line engine, diesel,	6	118.45	3.50 3.00 4.00	T CR M IFU P DSF CR	KG 1 KG 2 KG 1	16011801-00	STD		
In-line engine, diesel, 6.531A 500 Series Vehicle: J.D. TRACTOR 6030 J.D. TRACTOR 7520 6.531T Vehicle: J.D. CONSTRUCTION 644B, 646B, 770, 772A	6	120.65	3.96 3.96 4.76	T CR P TM P DSF CR	KG 1 KG 1 KG 1			16012001-00	STD
In-line engine, diesel, 6.101A, 6.101T 500 Series Vehicle: J.D. TRACTOR 8760 J.D. TRACTOR 8870 6.619A, 6.619T 500 Series Vehicle: J.D. CONSTRUCTION 744E, 762, 850, 855, 860B, 862, 890, 992 AR82355	6	130.17	3.96 3.96 4.76	T CR P TM CR P DSF CR P	KG 1 KG 1 KG 1				

KAMAZ

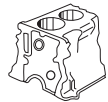

In-line engine, diesel, 10.9l 7401,7-40 Bus PA 3-4202,KAB 3-5252	8	120.00	3.00 3.00 5.00	HK CR HK CR DSF CR	KG 1 KG 1 KG 1	23212001-00	STD		
10.9l 5320,5410,5511,53202,53212	8							23212002-00	STD
13.6l 740.1000106	10								
In-line engine, diesel, 7409, 7403, 740 740.30-1000106	V8	120.00	3.50 3.00 4.00	T IW CR P HK CR P DSF CR	KG 1 KG 1 KG 1	23212002-00	STD		
In-line engine, diesel, 740.60-1000106-02		120.00	3.50 3.00 3.00	T IW CR P M IF P DSF CR P	KG 1 LG 1 KG 1			23212003-00	STD

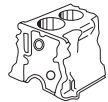

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
KHD							
Please see DEUTZ							
KIA							
In-line engine, fuel, 1.1l G4HG Vehicle: Santro	4	67.00	1.20 1.20 2.00	R IF NIT NM P SLF NIT	ST LG 1 ST	16206701-00	STD
In-line engine, fuel, 1.3l B3 Vehicle: Pride	4	71.00	1.20 1.50 3.00	R CR P NM P DSF CR P	ST LG 1 KG 1	16207101-00	STD
In-line engine, diesel, 1.6l D4FB Vehicle: SOUL, PRO CEED, CERATO, CARENS III, VENGA	4	77.20	1.75 1.75 3.00	R CR NM P DSFST CR	KG 1 LG 1 ST	16207701-00	STD
1.7l D4FD-L Vehicle: CARENS, SPORTAGE (SL), OPTIMA	4						
In-line engine, fuel, 1.6l B6D Vehicle: Spectra	4	78.00	1.20 1.20 2.50	R CR M P SLF CR	ST LG 1 ST	16207801-00	STD
In-line engine, diesel, 2.0l D4EA-F, D4EA Euro 3 Vehicle: Sportage, Magentis, Carens, Cerato	4	83.00	2.00 2.00 3.00	T CR M IWU CR DSFST CR	KG 1 KG 1 ST	16208301-00	STD
In-line engine, diesel, 2.2l R2 Vehicle: Besta (NB 1),E2000 Van,Pick-up,Crew Cab	4	86.00	2.00 2.00 4.00	R CR P M IF P DSF CR P	KG 1 LG 1 KG 1	16208601-00 16208601-07	STD + 0.50
In-line engine, diesel, 2.2l NB7 Vehicle: Sportage	4	86.00	2.00 2.00 3.00	R IF CR M IW CR DSF CR	KG 1 KG 1 KG 1	16208602-00 16208602-07	STD + 0.50



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, 2.2l S2 Vehicle: Ceres	4	88.90	2.38	R CR	KG 1	16208801-00	STD
			2.38	M IW P	LG 1		
			4.74	DSF CR	KG 1		
In-line engine, diesel, 2.5 D4CB Vehicle: Sorento 2.5 CDTI	4	91.00	2.50	HK CRP	KG 1	16209101-00	STD
			2.00	M IW CRP	KG 1	16209101-07	+ 0.50
			3.00	DSFST CR	ST		
In-line engine, diesel, 2.4l K2400 Vehicle: Power Bongo	4	92.00	2.38	R CR P	KG 1	16209201-00	STD
			2.38	M IF P	LG 1	16209201-07	+ 0.50
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 2.7l K2700, J2, SS, SUTC Vehicle: Besta, Pregio	4	92.00	3.00	T CR P	KG 1	16209202-00	STD
			2.38	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2.7l RFA Vehicle: BESTA	4	93.00	2.00	R CR	KG 1	16209301-00	STD
			2.00	R IF CR	KG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, 2.7l K2700 Vehicle: Pregio	4	94.54	2.00	R CR	KG 1	16209401-00	STD
			2.00	R IW CR	KG 1	16209401-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.7l JS, J2 Vehicle: K2700, Pregio	4	94.50	2.00	R CR	KG 1	16209402-00	STD
			2.00	M IW CR	KG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, 3.6l K3000, JT Vehicle: K3600	4	98.00	2.00	R IF CR P	KG 1	16209801-00	STD
			2.00	M IW CR P	KG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, 3.5l SL Vehicle: Jumbo Titan E-3500, K-3500	4	100.00	2.50	R CR P	KG 1	16210001-00	STD
			2.00	R IW CR	KG 1		
			4.50	DSF CR P	KG 1		



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
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
Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
KOMATSU									
In-line engine, diesel, 3.0l 4D94 Vehicle: Bulldozer	4	94.00	2.90	R CR	KG 1	16309401-00	STD		
			2.50	M P	LG 1				
			5.00	DSF P	LG 1				
In-line engine, diesel, NT 12	4	94.00	2.00	HK CR	KG 1	16309402-00	STD		
			2.00	M IF P	LG 1	16309402-07	+ 0.50		
			3.00	DSFST CR P	ST	16309402-11	+ 1.00		
In-line engine, diesel, 3.3 l SA1D95 Vehicle: Bulldozer	4	95.00	2.00	R CR	KG 1	16309501-00	STD		
			2.00	M P	LG 1			16309501-07	+0.50
			4.00	DSF CR	KG 1				
In-line engine, diesel, 4.9l S6D95,PW 150 Vehicle: Bulldozer	6	95.00	2.50	T CR P	ST	16309502-00	STD		
			2.20	HK CR P	KG 1			16309502-07	+0.50
			4.00	DSF CR	KG 1				
In-line engine, diesel, 4.9l 6D95 4890 SA1D95 Diesel Vehicle: Bulldozer	6	95.00	2.20	HK CR P	ST	16309503-00	STD		
			2.00	M IW P	LG 1				
			4.00	DSF CR P	KG 1				
3.3l S4D95 Diesel Vehicle: Bulldozer	4								
In-line engine, diesel, 4.9l 6D95 6207-31-2200	6	95.00	2.50	T CR	KG 1	16309504-00	STD		
			2.00	M IW P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, diesel, 6271-31-2300	1	95.00	2.50	T CR	KG 1	16309505-00	STD		
			2.00	NM CR P	KG 1				
			3.00	DSFST CR	ST				
In-line engine, diesel, 4.3l S6D102 Vehicle: Bulldozer D30	6	102.00	2.88	T CR	KG 1	16310201-00	STD		
			2.38	M IF P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, diesel, 6.5l 56D105 Vehicle: Bulldozer	6	105.00	3.00	T CR P	KG 1	16310501-00	STD		
			2.50	HK CR P	KG 1				
			5.00	DSF CR P	KG 1				



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
KOMATSU Cont.							
In-line engine, diesel, 6.5l 56D105 Vehicle: Bulldozer	6	105.00	3.00	T CR P	KG 1	16310502-00	STD
			2.50	HKM CR P	KG 1		
			5.00	DSF CR P	KG 1		
In-line engine, diesel, 4D106	4	106.00	2.50	HK CR	KG 1	16310601-00 16310601-07	STD + 0.50
			2.00	M IF P	KG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, SA6D108-1 Vehicle: Excavator:PC 300-5, LC-5, Loader: WA 420-3	6	108.00	2.55	T CR P	KG 1	16310801-00	STD
			2.65	TM IW CR P	KG 1		
			4.00	DSFST CR P	ST		
In-line engine, diesel, 7.1l S6D110 Diesel Vehicle: Bulldozer	6	110.00	3.00	T CR	KG 1	16311001-00	STD
			2.50	HK CR P	KG 1		
			5.00	DSF CR P	KG 1		
In-line engine, diesel, 7.2l 4D120 BULLDOZER D50		120.00	3.50	R IF CR P	KG 1	16312001-00	STD
			2.50	M IW CR	KG 1		
			5.50	DSF CR	KG 1		
In-line engine, diesel, D 75 A	4	125.00	2.50	T CR P	KG 1	16312501-00	STD
			2.50	TM CR P	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 11.0l 6D125 Vehicle: Bulldozer	6	125.00	2.50	T CR P	KG 1	16312502-00	STD
			2.50	TM CR P	KG 1		
			4.00	DSFST CR	ST		
In-line engine, diesel, 15.2l 6D140	6	140.00	2.40	T CR	KG 1	16314001-00	STD
			2.40	TM CR	KG 1		
			4.00	DSFST NIT	ST		
In-line engine, diesel,	6	155.00	3.94	T CR	KG 1	16315501-00	STD
			3.97	TM IW CR	KG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 19.3l SD155, SA6D155 Vehicle: Bulldozer	6	155.00	3.68	T CR	KG 1	16315502-00	STD
			3.55	TM IW CR	KG 1		
			4.76	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
KUBOTA							
In-line engine, diesel, D-600	64.00	2.00	HK CR	ST	16106401-00 16106401-07	STD + 0.50	
		1.50	M P	LG 1			
		4.00	DSF CR	KG 1			
In-line engine, diesel,	64.00	2.00	HK CR	ST	16106402-00 16106402-07	STD + 0.50	
		1.50	NM P	LG 1			
		3.00	DSF CR P	KG 1			
In-line engine, diesel,	64.00	2.00	HK CR	ST	16106403-00	STD	
		1.50	M P	LG 1			
		3.50	DSF CR	KG 1			
In-line engine, diesel,	64.00	1.50	HK CR	ST	16106404-00	STD	
		1.50	NM P	LG 1			
		3.00	DSF CR	KG 1			
In-line engine, diesel, D-722 E3B Euro4 16853-21050	67.00	1.50	HK CR	ST	16106701-00 16106701-05 16106701-07	STD + 0.25 + 0.50	
		1.50	R CR	KG 1			
		3.00	DSF CR	KG 1			
In-line engine, diesel,	67.00	2.00	HK IF CR	ST	16106702-00	STD	
		1.50	NM P	LG 1			
		3.00	DSF CR	KG 1			
In-line engine, diesel,	67.00	2.00	HK IF CR	ST	16106703-00	STD	
		1.50	NM P	LG 1			
		3.00	DSFST CR	ST			
In-line engine, diesel, 15271-2105-1	68.00	2.00	HK CR	KG 1	16106801-00 16106801-07 16106801-11	STD + 0.50 + 1.00	
		1.50	NM P	LG 1			
		4.00	DSF CR	KG 1			
In-line engine, diesel, 15231-2105-1	70.00	2.00	R CR	KG 1	16107001-00 16107001-07	STD + 0.50	
		2.00	M P	LG 1			
		2.00	NM P	LG 1			
		4.50	DSF CR	KG 1			
		4.50	D P	LG 1			
In-line engine, diesel,	70.00	1.50	HK CR P	ST	16107002-00 16107002-07 16107002-11	STD + 0.50 + 1.00	
		1.50	M P	LG 1			
		3.00	DSF CR	KG 1			
In-line engine, diesel, D-905	72.00	2.50	R CR	KG 1	16107201-00 16107201-07	STD + 0.50	
		2.00	NM P	LG 1			
		4.00	DSF CR	KG 1			
15901-2105-1	72.00	2.00	HK CR P	ST	16107202-00 16107202-05 16107202-07 16107202-11	STD + 0.25 + 0.50 + 1.00	
		1.50	M P	LG 1			
		4.00	DSF CR P	KG 1			



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
KUBOTA Cont.							
In-line engine, diesel, RK50		72.00	2.00	R CR P	KG 1	16107203-00	STD
			2.00	M P	LG 1		
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel,		72.00	1.50	HK CR	ST	16107204-00	STD
			1.50	R CR P	KG 1	16107204-05	+ 0.25
			3.00	DSF CR	KG 1	16107204-07	+ 0.50
In-line engine, diesel, D-902 / Z602 (1G826-21112)		72.00	1.50	HK CR	ST	16107205-00	STD
			1.50	N CR P	KG 1	16107205-05	+ 0.25
			2.00	DSFST CR	ST		
In-line engine, diesel, 15531-2105-2		75.00	2.00	HK CR	ST	16107501-00	STD
			1.50	NM P	LG 1	16107501-05	+ 0.25
			4.00	DSF CR	KG 1	16107501-07	+ 0.50
						16107501-11	+ 1.00
In-line engine, diesel, 14661-2105-01 GA70, GA 120	1	75.00	2.50	R CR P	KG 1	16107502-00	STD
			2.50	M P	LG 1		
			2.50	M P	LG 1		
			4.00	DSF CR P	KG 1		
			4.00	S P	LG 1		
In-line engine, diesel, V-1305		76.00	2.50	HK CR	KG 1	16107601-00	STD
			2.00	NM P	LG 1	16107601-07	+ 0.50
			5.00	DSF CR	KG 1	16107601-11	+ 1.00
In-line engine, diesel, D-1005		76.00	2.00	R IF CR	KG 1	16107602-00	STD
			2.00	M P	LG 1	16107602-07	+ 0.50
			2.00	NM P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 16271-2105-0		76.00	2.00	HK CR	ST	16107603-00	STD
			2.00	NM P	LG 1	16107603-07	+ 0.50
			4.00	DSF CR	KG 1		
In-line engine, diesel,		76.00	1.50	HK CR	ST	16107604-00	STD
			1.50	M P	LG 1	16107604-07	+ 0.50
			3.00	DSF CR	KG 1	16107604-11	+ 1.00
In-line engine, diesel,		76.00	2.00	HK IFU CR	ST	16107605-00	STD
			2.00	M IW P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 16853-2105-1		76.00	2.00	HK CR	ST	16107606-00	STD
			1.50	NM P	LG 1	16107606-05	+ 0.25
			4.00	DSF CR	KG 1	16107606-07	+ 0.50
In-line engine, diesel,		78.00	2.00	HK CR	ST	16107801-00	STD
			1.50	R IW CR P	KG 1	16107801-05	+ 0.25
			4.00	DSF CR P	KG 1	16107801-07	+ 0.50
					16107801-11	+ 1.00	



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
KUBOTA Cont.							
In-line engine, diesel, D-1403		78.00	2.50	HK CR	KG 1	16107802-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 16292-2105-0		78.00	2.00	HK CR	ST	16107803-00	STD
			1.50	R IW CR	KG 1		
			4.00	DSFST CR	ST	16107803-07	+ 0.50
In-line engine, diesel, 16261-2105-0		78.00	2.00	HK CR	ST	16107804-00	STD
			1.50	NM P	LG 1		
			4.00	DSF CR	KG 1	16107804-07	+ 0.50
In-line engine, diesel, D-1403 16427-2105-2		80.00	2.50	HK CR	KG 1	16108001-00	STD
			2.00	R IW CR	KG 1		
			5.00	DSF CR	KG 1	16108001-07	+ 0.50
In-line engine, diesel,		80.00	2.00	R CR	KG 1	16108002-00	STD
			2.00	M P	LG 1		
			2.00	NM P	LG 1		
			4.00	DSF CRP	KG 1		
In-line engine, diesel, 16427-2105-0		80.00	2.50	HK CR P	KG 1	16108003-00	STD
			2.00	NM P	LG 1		
			5.00	DSF CR	KG 1	16108003-07	+ 0.50
In-line engine, diesel, V-1702 15201-2105-3		82.00	2.50	HK CR P	KG 1	16108201-00	STD
			2.00	NM P	LG 1		
			5.00	DSF CR	KG 1	16108201-07	+ 0.50
						16108201-11	+ 1.00
In-line engine, diesel, V-1702 11141-2105-2		82.00	2.50	HK CR P	KG 1	16108202-00	STD
			2.00	M P	LG 1		
			2.00	NM P	LG 1		
			4.50	DSF CR	KG 1		
In-line engine, diesel, 1A024-2109-2		83.00	2.00	HK CR	ST	16108301-00	STD
			2.00	R IW CR P	KG 1		
			4.00	DSF CR P	KG 1	16108301-05	+ 0.25
						16108301-07	+ 0.50
In-line engine, diesel, 16467-2105-1		83.00	2.50	HK CR P	KG 1	16108302-00	STD
			2.00	NM P	LG 1		
			5.00	DSF CR P	KG 1	16108302-07	+ 0.50
In-line engine, diesel, 2.0l V2003	1	83.00	2.00	HK CR	ST	16108303-00	STD
			2.00	R IW CR P	KG 1		
			5.00	DSF CR P	KG 1	16108303-07	+ 0.50
In-line engine, diesel,		83.00	2.00	HK CR	ST	16108304-00	STD
			2.00	NM P	LG 1		
			3.00	DSFST CR	ST		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, ET 80 TC 14911-2105-0	84.00	2.00	R CR	KG 1	16108401-00	STD	
		2.00	M P	LG 1			
		2.00	NM P	LG 1			
		4.50	DSF CR	KG 1			
In-line engine, diesel,	84.00	1.50	R CR	KG 1	16108402-00	STD	
		1.50	M IF P	LG 1	16108402-05	+ 0.25	
		3.00	DSF CR	KG 1	16108402-07	+ 0.50	
In-line engine, diesel, V-1402	85.00	2.50	HK CR P	KG 1	16108501-00	STD	
		2.00	NM P	LG 1	16108501-07	+ 0.50	
		5.00	DSF CR	KG 1			
In-line engine, diesel, V-1402, V-1902, S2800 19274-21050	85.00	2.50	HK CR	KG 1	16108502-00	STD	
		2.00	R IW CR	KG 1	16108502-07	+ 0.50	
		5.00	DSF CR	KG 1			
In-line engine, diesel,	86.00	2.50	R CRP	KG 1	16108601-00	STD	
		2.00	M IF P	LG 1			
		2.00	M IF P	LG 1			
		4.76	DSF CRP	KG 1			
In-line engine, diesel, D-1307	87.00	2.50	HK CR	KG 1	16108701-00	STD	
		2.00	M IF P	LG 1	16108701-05	+ 0.25	
		5.00	DSF CR	KG 1	16108701-07	+ 0.50	
					16108701-09	+ 0.75	
			16108701-11	+ 1.00			
In-line engine, diesel, 1A091-2105-1	87.00	2.00	HK CR	ST	16108702-00	STD	
		2.00	NM P	LG 1	16108702-07	+ 0.50	
		5.00	DSF CR	KG 1			
In-line engine, diesel, 1G790-2105-3	87.00	2.00	R CR P	KG 1	16108703-00	STD	
		2.00	NM P	LG 1	16108703-05	+ 0.25	
		4.00	DSFST CR	ST	16108703-07	+ 0.50	
In-line engine, diesel, 1G790-2109-2	87.00	2.00	R CR P	KG 1	16108704-00	STD	
		2.00	M P	LG 1	16108704-05	+ 0.25	
		4.00	DSF CR	KG 1	16108704-07	+ 0.50	
In-line engine, diesel, 1G924-2109-0	87.00	2.00	HK CR P	ST	16108705-00	STD	
		2.00	R IW CR P	KG 1	16108705-05	+ 0.25	
		4.00	DSF CR	KG 1	16108705-07	+ 0.50	
In-line engine, diesel, V2607T 1J700-2105-0	87.00	2.00	R CR P	KG 1	16108706-00	STD	
		1.50	R CR P	KG 1	16108706-07	+ 0.50	
		3.00	DSFST CR	ST			
In-line engine, diesel, 17331-2105-4	87.00	2.50	HK CR P	KG 1	16108707-00	STD	
		2.00	NM P	KG 1	16108707-07	+ 0.50	
		5.00	DSF CR P	KG 1			

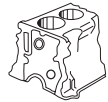

Make - Engine - Model	 No Ø mm.		Ring type	Material	Powerseal No	Size
In-line engine, diesel, 1A091-2105-2	87.00	2.00	HK CR	ST	16108708-00 16108708-07	STD + 0.50
		2.00	NM P	LG 1		
		5.00	DSF CR P	KG 1		
In-line engine, diesel,	87.00	2.00	HK IF CR	ST	16108709-00 16108709-05 16108709-07	STD + 0.25 + 0.50
		2.00	R IW CR P	KG 1		
		2.50	DSFST CR	ST		
In-line engine, diesel, D1105 1G924-21052	87.00	2.00	HK CR	ST	16108710-00 16108710-07	STD + 0.50
		2.00	R IW CR P	KG 1		
		4.00	DSFST CR	ST		
In-line engine, diesel, ET 110	92.00	2.50	R CR P	KG 1	16109201-00	STD
		2.00	N P	LG 1		
		2.00	NM P	LG 1		
		4.50	DSF CR P	KG 1		
In-line engine, diesel,	94.00	2.50	R CRP	KG 1	16109401-00	STD
		2.00	M P	LG 1		
		2.00	NM P	LG 1		
		4.50	DSF CRP	KG 1		
In-line engine, diesel, RK125	94.00	2.50	HK CR P	KG 1	16109402-00	STD
		2.00	M P	LG 1		
		2.00	NM P	LG 1		
		4.50	DSF CR	KG 1		
In-line engine, diesel, 1C010-2109-0	98.00	2.00	HK CR	ST	16109801-00 16109801-07	STD + 0.50
		2.00	NM P	LG 1		
		4.00	DSF CR	KG 1		
In-line engine, diesel,	98.00	2.00	R CR	KG 1	16109802-00 16109802-07	STD + 0.50
		2.00	NM P	LG 1		
		3.00	DSFST CR	ST		
In-line engine, diesel,	98.00	2.00	HK CR	ST	16109803-00 16109803-07	STD + 0.50
		2.00	R CR	KG 1		
		3.00	DSF CR	KG 1		
In-line engine, diesel, 15451-2105-2	105.00	2.50	R CR	KG 1	16110501-00 16110501-07	STD + 0.50
		2.50	NM P	LG 1		
		5.50	DSF CR	KG 1		
In-line engine, diesel,	106.00	2.50	HK CR	KG 1	16110601-00 16110601-07	STD + 0.50
		2.00	M P	LG 1		
		3.00	DSF CR P	KG 1		
In-line engine, diesel,	109.00	2.50	R CR	KG 1	16110901-00	STD
		2.50	NM P	LG 1		
		5.50	DSF CR P	KG 1		

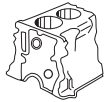

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LADA							
In-line engine, fuel, 1.1l, 50 HP Vehicle: Tavria 1.1	4	72.00	1.50	R CR P	KG 1	16407201-00	STD
			2.00	NM P	LG 1		
			3.94	DSF CR	KG 1		
In-line engine, fuel, 1.2l, 2101 Vehicle: 2101, 2102, 1200, Nova, Junior	4	76.00	1.50	R CR	KG 1	16407600-00	STD
			2.00	NM P	LG 1	16407600-04	+ 0.20
			3.94	DSF CR	KG 1	16407600-06	+ 0.40
						16407600-08	+ 0.60
1.5l, 1111, 2104 Vehicle: 2103, 1500 (2101-1000/00)	4					16407600-10	+ 0.80
In-line engine, fuel, 1.2l, 2101 Vehicle: 2101, 2102, 1200, Nova, Junior	4	76.00	1.50	R CR	KG 1	16407601-00	STD
			2.00	NM P	LG 1	16407601-02	+ 0.10
			3.96	SLF CR	ST	16407601-08	+ 0.60
						16407601-10	+ 0.80
1.5l, 1111, 2104 Vehicle: 2103, 1500 (2101-1000/00)	4					16407601-11	+ 1.00
						16407601-26	+ 1.60
In-line engine, fuel, 1.3l, 2106 Vehicle: Nova	4	79.00	1.50	R CR	KG 1	16407900-00	STD
			2.00	NM P	LG 1	16407900-04	+ 0.20
			3.94	DSF CR	KG 1	16407900-06	+ 0.40
						16407900-08	+ 0.60
1.6l, 2106 Vehicle: Samara, Niva, Taiga	4					16407900-10	+ 0.80
						16407900-11	+ 1.00
In-line engine, fuel, 1.3l, 2106 Vehicle: Nova	4	79.00	1.50	R CR	KG 1	16407901-00	STD
			2.00	NM P	LG 1	16407901-02	+ 0.10
			3.96	SLF CR	ST	16407901-08	+ 0.60
						16407901-10	+ 0.80
1.6l, 2106 Vehicle: Samara, Niva, Taiga	4					16407901-11	+ 1.00
						16407901-26	+ 1.60
In-line engine, fuel, 1.5l 2111, 2123, 11113 Vehicle: Samara 1.5, Shiguli VAZ 21083	4	82.00	1.50	R IF CR	KG 1	16408200-00	STD
			2.00	M P	LG 1	16408200-06	+ 0.40
			3.94	DSF CR	KG 1	16408200-10	+ 0.80



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LAND ROVER							
V6 engine, diesel, 2.7l 276DT Euro 4 Vehicle: Range Rover Sport 2.7 TDVM	V6	81.00	2.00	R IF CR	KG 1	16508101-00	STD + 0.50
			2.00	M IFU P	LG 1	16508101-07	
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.5l TD5 Vehicle: Defender 110,Discovery 2.5	5	84.45	3.00	T IF CR	KG 1	16508401-00	STD
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.5l TD5 Vehicle: Defender 110,Defender 130 Defender 90; Discovery; Discovery 2.5 TD5 Adventurer; Discovery 2.5 TD5 E	5	84.45	3.00	HK CR	KG 1	16508402-00	STD + 0.50
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel,		84.45	1.50	R CR P	KG 1	16508403-00	STD
			1.50	M IFU P	LG 1		
			4.00	SLF CR	ST		
In-line engine, fuel, 2.0l M16 TC Vehicle: 800, 820	5	84.45	1.75	R IF CR	KG 1	16508404-00	STD + 0.50
			1.50	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 3.0l, 306DT, 30DDTX Vehicle: Discovery IV, Range Rover Sport	6	84.00	2.00	R IF CR	KG 1	16508405-00	STD
			2.00	M IFU P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 3.0l, 306DT, 30DDTX (Euro 5 TDV6.3.0) Vehicle: Discovery IV, Range Rover Sport	V6	84.00	1.75	R CR	KG 1	16508406-00	STD
			1.75	M IFU P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 2.0l, 204PT Vehicle: Discovery Sport, Range Rover Evoque	4	87.50	1.20	R DLC	ST	16508701-00	STD + 0.50
			1.20	NM P	KG 2		
			2.00	SLF CR P	ST		
In-line engine, fuel, 3.5l Vehicle: Range Rover, Range Rover Vogue SD1/3.5L Efi	8	88.86	1.58	R CR P	KG 1	16508801-00	STD + 0.50
			1.58	M IW P	LG 1		
			4.76	DSF CR P	KG 1		


Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LAND ROVER Cont.							
In-line engine, diesel, 2.5l 12J Vehicle: 110,90,Defender 130/110/90	4	90.47	2.00	R CR P	KG 1	16509001-00	STD
			2.00	M P	LG 1	16509001-07	+ 0.50
			4.00	DSF CR P	KG 1	16509001-11	+ 1.00
In-line engine, diesel, 2.5l 19J Vehicle: 110,90	4	90.47	2.00	R CR P	KG 1	16509002-00	STD
			2.00	M P	LG 1	16509002-07	+ 0.50
			3.00	DSF CR P	KG 1	16509002-11	+ 1.00
In-line engine, diesel, 2.5l 300 TDI Vehicle: Defender, Discovery, Range Rover	4	90.47	3.00	T CR P	KG 1	16509003-00	STD
			2.50	NM P	LG 1	16509003-07	+ 0.50
			3.00	DSF CR P	KG 1	16509003-11	+ 1.00
In-line engine, diesel, 2.5l 200 TDI Discovery Vehicle: Defender, Discovery, Range Rover	4	90.47	2.50	T CR P	KG 1	16509004-00	STD
			2.00	M P	LG 1	16509004-07	+ 0.50
			3.00	DSF CR P	KG 1		
In-line engine, diesel, 2.5l 88/109/90/110/80 Vehicle: Landrover Series II	4	90.47	1.79	R IF CR P	KG 1	16509005-00	STD
			1.79	M IF P	LG 1	16509005-07	+ 0.50
			4.76	DSF CR P	KG 1	16509005-09	+ 0.75
						16509005-11	+ 1.00
In-line engine, diesel, 2250 cm ³ 2.3, R 4, 45,5 kW (61,9 PS), 23:1 Vehicle: Seater		90.47	2.38	R CR	KG 1	16509006-00	STD
			2.38	M P	LG 1	16509006-07	+ 0.50
			2.38	M P	LG 1	16509006-09	+ 0.75
			4.76	DSF CR	KG 1	16509006-11	+ 1.00
			4.76	D P	LG 1		
In-line engine, diesel, 2.4l HR 492 HT Vehicle: Range Rover Vogue TD	4	92.00	2.50	T CR	KG 1	16509201-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel,	8	92.50	1.20	R CR	ST	16509202-00	STD
			1.50	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 3.9l Range Rover Vogue, 3.9L Efi	8	94.00	1.50	R CR	KG 1	16509401-00	STD
			1.50	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 4.0l HSE Vehicle: Range Rover 4,0 V8, Range Rover 4,6 V8 HSE	8	94.00	1.20	R CR	ST	16509402-00	STD
			1.50	M IFU P	LG 1		
			3.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LEYLAND							
Please see BLMC							
LIAZ							
In-line engine, diesel, 12.0l M640 TURBO Vehicle: S1000.55	6	130.00	3.50 3.50 5.00	T CR M P DSF CR	KG 1 LG 1 KG 1	16613001-00	STD
In-line engine, diesel, 12.0l M634 / 200PS Vehicle: 706 MT	6	130.00	3.50 3.50 3.50 6.00	T CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	16613002-00	STD
In-line engine, diesel, M 1.2 A-MS 636 - 637 - 938 - 639 - 640	6	130.00	3.50 3.00 5.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	16613003-00	STD
LIEBHERR							
In-line engine, diesel, D 904.NA + TB Vehicle : Stationary, engines	4	115.00	3.00 2.50 4.00	T CR P M P DSF CR	KG 1 LG 1 KG 1	16811501-00	STD
D 906.NA + TB Vehicle : Construction engines	6						
In-line engine, diesel,		120.00	3.00 2.50 4.00	T CR P M P DSF CR	KG 1 LG 1 KG 1	16812001-00	STD
In-line engine, diesel, 6.6l D 924 TI E A1 Vehicle : Stationary engine	4	122.00	3.50 2.50 4.00	T CR M CR DSFST CR	KG 1 KG 1 ST	16812201-00	STD
10.0l D 926 TI E Vehicle : Stationary engine	6						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LIEBHERR Cont.							
In-line engine,diesel, 13.0l D 9406 TI-E Vehicle: (Stationary engine)	6	135.00	4.00	T CR	KG 1	16813501-00	STD
			2.50	M P	LG 1		
17.1l D 9408 TI-E Vehicle: (Stationary engine)			4.00	DSF CR	KG 1		
LISTER							
In-line engine, diesel, LD 1/2/3 Vehicle: 1952	1	76.20	3.96	T CR	KG 1	16707601-00	STD
			2.38	M P	LG 1	16707601-07	+ 0.50
			2.38	NM P	LG 1	16707601-09	+ 0.75
			3.96	DSF CR	KG 1	16707601-11	+ 1.00
			3.96	D P	LG 1	16707601-14	+ 1.50
In-line engine, diesel, LR 1/2 Vehicle: 1949	1	76.20	3.17	T CR P	KG 1	16707602-00	STD
			2.38	M P	LG 1	16707602-07	+ 0.50
			2.38	NM P	LG 1	16707602-09	+ 0.75
			3.96	DSF CR	KG 1	16707602-11	+ 1.00
			3.96	D P	LG 1	16707602-14	+ 1.50
In-line engine, diesel, LPA		76.00	1.75	R CR P	KG 1	16707603-00	STD
			2.00	NM P	LG 1	16707603-05	+ 0.25
			4.00	DSF CR P	KG 1	16707603-07	+ 0.50
In-line engine, diesel, SL 1/2/3	2	80.96	3.96	T CR	KG 1	16708001-00	STD
			2.38	M P	LG 1	16708001-07	+ 0.50
			2.38	NM P	LG 1	16708001-09	+ 0.75
			3.96	DSF CR	KG 1	16708001-11	+ 1.00
			3.96	D P	LG 1	16708001-14	+ 1.50
In-line engine, diesel, LT 1/2	1	82.55	2.38	T CR	KG 1	16708201-00	STD
			1.99	NM P	LG 1	16708201-07	+ 0.50
			3.96	DSF CR	KG 1	16708201-09	+ 0.75
			3.96	D P	LG 1	16708201-11	+ 1.00
						16708201-14	+ 1.50
In-line engine, diesel, LPW,LPWS,LPWG,Alpha	3	86.00	1.75	R CR	KG 1	16708601-00	STD
			2.00	M IF P	LG 1	16708601-05	+ 0.25
	4		4.00	DSF CR P	KG 1	16708601-07	+ 0.50
In-line engine, diesel, SR 1/2/3/4	2	88.90	3.17	T CR	KG 1	16708801-00	STD
			2.38	M IF P	LG 1	16708801-05	+ 0.25
			2.38	NM P	LG 1	16708801-07	+ 0.50
			3.96	DSF CR	KG 1	16708801-09	+ 0.75
			3.96	D P	LG 1	16708801-11	+ 1.00
						16708801-14	+ 1.50



Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
LISTER Cont.									
In-line engine, diesel, ST 1, ST2, ST3	2	95.25	3.16	T CR	KG 1	16709501-00	STD		
			2.38	M P	LG 1	16709501-05	+ 0.25		
			2.38	NM P	LG 1	16709501-07	+ 0.50		
			4.76	DSF CR	KG 1	16709501-09	+ 0.75		
In-line engine, diesel, TS1, TS2, TS3	1		4.76	D P	LG 1	16709501-11	+ 1.00		
						16709501-14	+ 1.50		
In-line engine, diesel, TR	3	98.42	3.17	T CR	KG 1	16709801-00	STD		
			2.38	M P	LG 1	16709801-07	+ 0.50		
			4.76	DSF CR	KG 1	16709801-11	+ 1.00		
In-line engine, diesel, HA / HB / HW	1	101.60	4.76	T CR	KG 1	16710100-00	STD		
			3.17	M P	LG 1	16710100-05	+ 0.25		
			3.17	M P	LG 1	16710100-07	+ 0.50		
			4.76	DSF CR	KG 1	16710100-09	+ 0.75		
			4.76	G P	LG 1	16710100-11	+ 1.00		
						16710100-14	+ 1.50		
In-line engine, diesel, HRA / HRW	1	107.95	3.97	T CR	KG 1	16710701-00	STD		
			3.17	M P	LG 1	16710701-05	+ 0.25		
			3.17	NM P	LG 1	16710701-07	+ 0.50		
			4.76	DSF CR	KG 1	16710701-09	+ 0.75		
			4.76	D P	LG 1	16710701-11	+ 1.00		
HR / HRA / HRW	1				16710701-14	+ 1.50			
6.3l	2								
HRS / HRSW									
In-line engine, diesel, 1.4l 6/9 Vehicle: 1936	1	114.30	4.76	T CR	KG 1	16711401-00	STD		
			3.17	M IF P	LG 1	16711401-07	+ 0.50		
			3.17	M IF P	LG 1	16711401-11	+ 1.00		
			4.76	DSF CR	KG 1				
			2.9l 12/21/JP Vehicle: 1936	1					
			4.3l 30/JP Vehicle: 1936	1					
5.7l 38/40/JP Vehicle: 1936	1								
8.6l 616 Vehicle: 1936	1								



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LISTER Cont.							
5/1, 6/1	1	114.30	3.17	M I F P	LG 1	16711402-00	STD
			3.17	M I F P	LG 1		
10/2, 12/2	2		3.17	M I F P	LG 1	16711403-00	STD
			3.17	M I F P	LG 1		
			4.60	D P	LG 1		
6/1	1	114.30	3.17	R CR	KG 1	16711403-00	STD
			3.17	M I F P	LG 1		
	2		3.17	M I F P	LG 1	16712701-00 16712701-07 16712701-11	STD + 0.50 + 1.00
			4.76	D P	LG 1		
		127.00	4.76	T CR	KG 1		
			3.17	M P	LG 1		
			3.17	NM P	LG 1		
			6.35	D P	LG 1		
			6.35	DSF CR	KG 1		
LOMBARDINI							
In-line engine, diesel, 6 LD 260/L, LDA 500	1	70.00	2.00	R CR	KG 1	17007001-00 17007001-07	STD + 0.50
			2.00	M P	LG 1		
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, LAP 250	1	72.00	2.00	R CR	KG 1	17007201-00 17007201-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 0.6l, 0.5l, 09l, 1.2l	2	72.00	2.00	R I F CR	KG 1	17007202-00 17007202-07	STD + 0.50
	3		2.00	M I F P	LG 1		
	4		3.00	DSF CR	KG 1		
		75.00	2.00	R I F CR	KG 1	17007501-00 17007501-07	STD + 0.50
			2.00	M I F P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 325 cm ³ LA LAP 300-350	1	76.00	2.00	R CR	KG 1	17007601-00 17007601-07 17007601-11	STD + 0.50 + 1.00
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 325 cm ³ LDA 520/2/3/5/7 Vehicle: Industrial	1	78.00	2.00	R CR P	KG 1	17007801-00 17007801-07	STD + 0.50
			2.00	M I F P	LG 1		
			2.00	M I F P	LG 1		
			4.00	DSF P	LG 1		
In-line engine, diesel, 325 cm ³ 6 LD 325	1	78.00	2.00	R CR	KG 1	17007802-00	STD
			2.00	M I F P	LG 1		
			4.00	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, 315 cm ³ 15 LD 315, 196 LDA 326 5 kW-6.8 PS	1	78.00	2.00	R CR	KG 1	17007803-00	STD
			2.00	M IF P	LG 1	17007803-07	+ 0.50
			3.00	GSF P	LG 1	17007803-11	+ 1.00
In-line engine, diesel,	1	78.00	2.00	R CR P	KG 1	17007804-00	STD
			2.00	NM P	LG 1		
			3.00	DSFCR P	KG 1		
In-line engine, diesel, 402 cm ³ LDA80 Vehicle: Industrial	1	80.00	2.00	R CR	KG 1	17008001-00	STD
			2.00	M P	LG 1	17008001-07	
			2.00	NM P	LG 1	17008001-11	
			4.00	GSF P	LG 1		
In-line engine, diesel, 359 cm ³ , T 530, T 532, T 533 Vehicle: industrial engine	1	82.00	2.00	B CR P	KG 1	17008201-00	STD
			2.00	M P	LG 1	17008201-07	
			2.00	NM P	LG 1	17008201-11	
			5.00	GSF P	LG 1		
In-line engine, diesel, 6 LD 360	1	82.00	2.00	R CR	KG 1	17008202-00	STD
			2.00	M P	LG 1		
			5.00	GSF P	LG 1		
In-line engine,diesel, LA 82		82.00	3.00	R CR P	KG 1	17008203-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	GSF P	LG 1		
In-line engine,diesel, LA82		82.00	3.00	R CR P	KG 1	17008204-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	GSF P	LG 1		
			4.00	G P	LG 1		
In-line engine, diesel, 454 cm ³ , LDA 450, LDA 455, 3 LD 450 Vehicle: industrial engine	1	85.00	2.00	R IF CR P	KG 1	17008501-00	STD
			2.00	M IF P	LG 1	17008501-07	
			2.00	NM P	LG 1	17008501-11	
			4.00	GSF P	LG 1		
In-line engine, diesel, LA 85	1	85.00	2.50	R CR	KG 1	17008502-00	STD
			2.50	M IF P	LG 1	17008502-07	
			5.00	D P	LG 1	17008502-11	
In-line engine, diesel, 454 cm ³ , LDA 450, LDA 455, Vehicle: Industrial engine	1	85.00	2.00	B CR P	KG 1	17008503-00	STD
			2.00	M IF P	LG 1	17008503-07	
			2.00	NM P	LG 1	17008503-11	
			4.00	GSF P	LG 1		
In-line engine, fuel, 0.5l	1	85.00	2.50	R CR	KG 1	17008504-00	STD
			2.00	M IF P	LG 1		
			4.00	GSF P	LG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LOMBARDINI Cont.							
In-line engine, diesel, 3LD 510.1, 3LD 450 Vehicle: Industriemotor	1	85.00	2.00	R IF CR P	KG 1	17008505-00	STD
			2.00	M IF P	LG 1		
			4.00	GSF P	LG 1		
In-line engine, diesel, 3LD 510.1, 3LD 450 Vehicle: Industriemotor	1	85.00	2.00	B IF CR P	KG 1	17008506-00	STD
			2.00	M IF P	LG 1	17008506-07	+ 0.50
			4.00	GSF P	LG 1	17008506-11	+ 1.00
Engine, 395 cm ³ 6 LD 400	1	86.00	2.00	R CR	KG 1	17008601-00	STD
			2.00	M IF P	LG 1	17008601-07	+ 0.50
			4.00	GSF P	LG 1	17008601-11	+ 1.00
In-line engine,diesel, 395cm ³ 6LD,.400 engine Vehicle : Stationary Engine	1	86.00	2.00	B CR P	KG 1	17008602-00	STD
			2.00	M IF P	LG 1	17008602-07	+ 0.50
			4.00	GSF P	LG 1	17008602-11	+ 1.00
In-line engine,diesel, 15 LD 400	1	86.00	2.00	R CR P	KG 1	17008603-00	STD
			1.50	M P	LG 1	17008603-07	+ 0.50
			2.50	DSF CR P	LG 1	17008603-11	+ 1.00
		88.00	2.00	R IF CR	KG 1	17008801-00	STD
			2.00	M IF P	LG 1	17008801-07	+ 0.50
			3.00	DSF CR	KG 1	17008801-11	+ 1.00
In-line engine,diesel, 0.5l LA 490	1	88.00	2.00	R IF CR P	KG 1	17008802-00	STD
			2.00	M IF P	LG 1	17008802-07	+ 0.50
			4.50	GSF P	LG 1	17008802-11	+ 1.00
In-line engine, diesel 1.1l 9 LD 560 2	2	90.00	2.00	R CR	KG 1	17009001-00	STD
			2.00	M P	LG 1		
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 598cm ³ 710/713/715 Vehicle: Industrial	1	90.00	2.50	R IF CR	KG 1	17009002-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	DSF P	LG 1		
1.2l 904 Vehicle: Industrial	2						
In-line engine, diesel, 9 LD 560.2, 9 LD 561.2	2	90.00	2.00	R CR	KG 1	17009003-00	STD
			2.00	M IF P	LG 1	17009003-07	+ 0.50
			4.00	DSF CR	KG 1		
In-line engine, diesel, LDA91	1	90.00	3.00	R CR P	KG 1	17009004-00	STD
			3.00	M IF P	LG 1		
			3.00	M IF P	LG 1		
			5.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LOMBARDINI Cont.							
In-line engine, diesel, 1.3l LDA 672, 672, LD 675 2,	2	95.00	3.00	R CR P	KG 1	17009500-00	STD
			3.00	M P	LG 1	17009500-07	+ 0.50
			3.00	NM P	LG 1	17009500-11	+ 1.00
2.0l LDA 673, 5 LD 675 3,	3	95.00	5.00	DSF CR P	KG 1		
2.0l LDA 673, 5 LD 675 3,	4	95.00					
In-line engine, diesel, 11LD 625.3, 7LD 665.1 LDA 720	1	95.00	2.50	R CR	KG 1	17009501-00	STD
			2.50	M P	LG 1	17009501-07	+ 0.50
			5.00	DSF CR	KG 1	17009501-11	+ 1.00
In-line engine, diesel, LDA 720, LDA 723, LDA 725	1	95.00	2.50	R CR	KG 1	17009502-00	STD
			2.50	M P	LG 1	17009502-07	+ 0.50
			2.50	M P	LG 1	17009502-11	+ 1.00
			5.00	DSF CR	KG 1		
In-line engine, fuel, 5 LD 675 4 LDA 670, LDA 96, 4 LD 640	1	95.00	3.00	B CR P	KG 1	17009503-00	STD
			3.00	M IF P	LG 1	17009503-07	+ 0.50
			3.00	M IF P	LG 1	17009503-11	+ 1.00
			5.00	GSF P	LG 1		
1.4l LDA 672, LD 675 2	2	95.00					
2.0l LDA 673, 5 LD 675 3	3	95.00					
2.7l LDA 674, 5 LD 675 4	4	95.00					
In-line engine, diesel, LDA 830	2	100.00	2.50	R CR	KG 1	17010001-00	STD
			2.50	M P	LG 1	17010001-07	+ 0.50
			3.50	DSF CR	KG 1	17010001-11	+ 1.00
5 LD 825.2	2	100.00					
5 LD 825.3	3	100.00					
5 LD 825.4	4	100.00					
In-line engine, diesel, 5 LD 825.2 34 HP	2	100.00	2.50	R CR	KG 1	17010002-00	STD
			2.50	M P	LG 1	17010002-07	+ 0.50
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 707 cm ³ LDA 100, 5 LD 105, 4 LD 705,	2	100.00	3.00	R CR	KG 1	17010003-00	STD
			2.50	M IF P	LG 1	17010003-07	+ 0.50
			2.50	NM P	LG 1	17010003-11	+ 1.00
1.6l T 832, 5 LD 825	2	100.00	5.00	DSF CR	KG 1		
2.5l T 833, 5 LD 825	3	100.00					
3.3l T 8304, 5 LD 825	4	100.00					



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
LOMBARDINI Cont.							
In-line engine, diesel, 817 cm ³ LDA 820/825, 4 LD 820	1	102.00	3.00	R CR P	KG 1	17010200-00	STD
			2.50	M P	LG 1	17010200-07	+ 0.50
			2.50	NM P	LG 1	17010200-11	+ 1.00
			5.00	DSF CR	KG 1		
In-line engine, diesel,		102.00	2.50	R CR	KG 1	17010201-00	STD
			2.50	M P	LG 1		
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 817cm ³ LDA 820/ 825, 4 LD 820	4	102.00	3.00	B CR P	KG 1	17010202-00	STD
			2.50	M IF P	LG 1	17010202-07	+ 0.50
			2.50	M IF P	LG 1	17010202-11	+ 1.00
			5.00	GSF P	LG 1		
In-line engine, diesel,	3	102.00	3.00	B CR P	KG 1	17010203-00	STD
			2.50	M IF P	LG 1		+ 0.50
			2.50	NM P	LG 1		+ 1.00
			5.00	DSF CR	KG 1		
In-line engine, diesel, 5LD 930, 930.3, 930.4	3	106.00	2.50	R CR	KG 1	17010601-00	STD
			2.50	M IF P	LG 1	17010601-07	+ 0.50
			2.50	M IF P	LG 1	17010601-11	+ 1.00
			5.00	DSF CR	KG 1		
MACK							
In-line engine, diesel, ENDT-673C	4	123.82	3.17	T IF CR	KG 1	17312301-00	STD
			3.17	TM IF CR	KG 1		
			3.17	TM IF CR	KG 1		
ETZB673E E6-200	6		4.76	DSF CR	KG 1		
In-line engine, diesel, 11.9l 728CID Vehicle: E7	6	123.82	3.17	T CR P	KG 1	17312302-00	STD
			2.38	M IF CR P	KG 1		
			4.76	DSF CR P	KG 1		
MALCOTSIS							
In-line engine, diesel,		92.00	3.00	R IF CR	KG 1	17409201-00	STD
			3.00	M IF P	LG 1		
			3.00	M IF P	LG 1		
			4.50	S P	LG 1		
			4.50	S P	LG 1		
MAN							
In-line engine, diesel, D 0022-024-NM Vehicle: Traktor	4	100.00	2.50	R CR	KG 1	17510001-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MAN Cont.							
In-line engine, diesel, D 0022-024-NM	4	100.00	2.50	R CR	KG 1	17510002-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2.0l D 0022 M 161 Vehicle : Traktor 3.9l D 0024 M 220/221 Vehicle: Traktor	2	100.00	2.50	R CR	KG 1	17510003-00	STD
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 5.7l 0226 MK/MC Vehicle: 12.170, 12.192	6	102.00	3.00	T CR	KG 1	17510201-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 3.8l D 0224 M/MF/ME Vehicle: Type 6.90, 8.90	4	102.00	2.50	R CR	KG 1	17510202-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
5.7l D 0226 M/MF/ME/MFO/MH/MFM/MF A/MS Vehicle: 6.90 F/FK, 8.90 F/FK 8.136 F/FK, 9.136 F/FK 10.136 F, 11.136, 12.136 14.136, 17.136	6		2.50	R CR	KG 1		
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 7.0l D 0836 M/MH/MU/HM 3 U/HM/HMN/ HMU/HM 2/HM 7 Vehicle: truck-Serie 635/735/650/850	6	108.00	2.50	R CR	KG 1	17510801-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
7.3l D 0846 HM 2/HMN 2/HMY Vehicle: 8.156, 8.160 H, 8.160 F 9.156, 9.160 13.168, 15.168, 16.168 750 HO-SL, SG 192, SL 192 CR 160, UE 590	6		2.50	R CR	KG 1		
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		

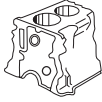

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MAN Cont.							
In-line engine, diesel, 7.0l D 0836 M/MH/MU/HM 3 Vehicle: truck-Serie 635/735/650/850	6	108.00	2.50	R CR	KG 1	17510802-00	STD
			2.50	M P	LG 1		
7.3l D 0846 HM 2/HMN 2/HMY Vehicle: 8.156, 8.160 H, 8.160 F 9.156, 9.160	6		2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 6.8l 0824/0826 LFL01/02 Euro1 8.153F,9.153F,9.163F . 4.6l/6.9l D0824 LFL 02, D0826 LFL 03/LF 11/LUH 11	6	108.00	3.00	T CR	KG 1	17510803-00	STD
			2.50	M P	LG 1		
6.9l D 0826 LE 51/52 WE 51,TUE51,LUE 51/160	6		4.00	DSF CR	KG 1		
In-line engine, diesel, 6.8l 0824/0826 LFL01/02 Euro1 8.153F,9.153F ,9.163F . 4.6l/6.9l D0824 LFL 02,D0826 LFL 03/LF 11/LUH 11	6	108.00	3.00	T CR	KG 1	17510804-00	STD
			2.50	M IF P	LG 1		
6.9l D 0826 LE 51/52 WE 51,TUE51,LUE 51/160	6		2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 4.6l D 0824 GF/GF01	4	108.00	2.50	R CR	KG 1	17510805-00	STD
			2.50	M P	LG 1		
6.6l D 0826 LF/OH/LOH Vehicle: F90, G90, M90	6		4.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MAN Cont.							
In-line engine, fuel, 4.6l D0834 LFL, LOH Vehicle: 8.145, 9.145,10.145, 12.145,8.185, 10.185,12.185, LE 140 6.9l D 0836 LF 01, 02,03, 04, O5 Vehicle: 12.284, 14.284,15.284, 18.284,20.284, 23.284,25.284, 12.255, 14.255, 15.255,18.255, 18.255,20.255, 25.255,26.255, LE 250	4	108.00	3.00 2.50 3.00	T CR M P DSF CR	KG 1 LG 1 KG 1	17510806-00	STD
In-line engine, diesel, E836 LOH01 CNG 206 kW-280 HP Vehicle: Gm 290 Lf Cng , Tcv, obra Gd 272 Lf	6	108.00	2.50 2.50 3.00	R CR M CR DSFST CR	KG 1 KG 1 ST	17510807-00	STD
In-line engine, diesel, 4.6l D0834 Euro 3, 4, 5, 6 Vehicle: TGL I, II	6	108.00	3.00 2.50 3.00	T CR M CR DSFST CR	KG 1 KG 1 ST	17510808-00	STD
In-line engine, diesel, D 1146	6	111.00	3.50 3.00 4.00	T CR M P DSF CR	KG 1 LG 1 KG 1	17511101-00	STD
In-line engine, diesel, 10.3l D 1246,MV 3 A, Vehicle: 630 L	6	112.00	2.50 2.50 2.50 5.00	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	17511201-00 17511201-05 17511201-07 17511201-11	STD + 0.25 + 0.50 + 1.00
In-line engine, diesel, 10.5l D2066 LF Vehicle: TGA28.430	6	120.00	3.50 3.00 4.00	T CR M CR DSF CR	KG 1 KG 1 KG 1	17512001-00	STD
In-line engine, diesel, 10.3l D 2146-2156 SL192	6	121.00	3.50 3.00 3.00 5.50	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	17512101-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
MAN Cont.								
In-line engine, diesel, 10.3l D 2156 HM, HMN, MGN, MY, MNY, MYN, HNY, M 2, HM 3, HMN 3, HM 9, HMN 9, HMU 11, MT, MTN, MTX, HMXU 036, 037, 038 Vehicle: 9.192, 9.216, 10.215, 12.192, 12.215, 13.215, 13.230, 15.192, 15.216, 16.816, 16.192, 16.215, 21.215, 22.215, SL 192, SG 192, 12 Ue 192, 10 Ue 192, 11 Ue 192	6	121.00	3.50	T CR P	KG 1	17512102-00	STD	
			3.00	M P	LG 1			
			3.00	NM P	LG 1			
			5.50	DSF CR	KG 1			
In-line engine, diesel, 10.4l D 10 UT 150, Euro 2 Vehicle: Ikarus, IK 280	6	121.00	3.50	T CR	KG 1	17512103-00	STD	
			2.00	R IF CR	KG 1			
			3.50	DSF CR	KG 1			
In-line engine, diesel, 10.6l D 2356 HMN 2, M 9, HM 9, HMN 9, HMHU 063 Vehicle: 12.230,13230,16.230,19.230 30.230,10.230, 22.230, SG 192,SÜ 230,11 Ü 192,12 Ü 192	6	123.00	3.50	T CR	KG 1	17512301-00	STD	
			3.00	M IF P	LG 1			
			3.00	NM P	LG 1			
			5.50	DSF CR	KG 1			
In-line engine, diesel, D 2366 Vehicle: CITY BUS	6	123.00	3.50	T CR	KG 1	17512302-00	STD	
			3.00	M IF P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine, diesel, 9.2l D 2555 M / ME / MUH / MF / MX 9.5l D 2565 HM / M / ME / MF / MUE MUH / MUL 11.1l D 2556 M / MX / MXF / MXH 11.4l D 2566 HM / M / ME / MH MXF / MF / MUE MUH / MFO / MUM 11.4l G 2566 UH / UM	5	125.00	3.00	T CR	KG 1	17512501-00	STD	
	5		3.00	M IF P	LG 1			
			5.00	DSF CR	KG 1			
	6	6	6	6	6			6
	6							
	6	6	6	6	6			6
	6							
	6	6	6	6	6			6
	6							



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MAN Cont.							
In-line engine, diesel, 9.5l D 2565 MT/ MK/ MKUL	5	125.00	3.50 3.00 5.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	17512502-00	STD
	11.4l D 2566 MT/MTE/MLE/MFT/MTH/ MTU/MTF/MTUM/MTUE/MK/MUF/ MKUL/MTUH/MLUM/MKF/MKUH/ KUL/MLUH/MTHO/UH/BUH	6					
In-line engine, diesel, 12.7l D 2538 M,MF,ME 16.256,19.256,26.256.	8	125.00	3.50 3.00 3.00 5.00	T CR M IF P M IF P DSF CR	KG 1 LG 1 LG 1 KG 1	17512503-00	STD
	15.6l D 2530 MF ME/MXF/MR/MFR/MXFR 19.320,20.320,22.320,26.320,3 0.320 DF4525,DF5175,DFK3875	10					
In-line engine, diesel, 12.8l D 2538 M/ME/MF Vehicle: 16.256, 19.256, 26.256, 30.256	8	125.00	3.00 3.00 5.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	17512504-00	STD
	15.6l D 2530 ME/MF/MXF Vehicle: 16.320, 19.320, 20.320, 22.320, 26.320, 30.320, 32.320, 38.320, DFK-3875, DF-4525, DF-5175	10					
In-line engine, diesel, 12.4l D 2676 LF Euro 2, 3, 4, 5 Vehicle: TGS I, HOCL, TGX I	6	126.00	4.00 3.00 4.00	T CR M CR P DSF CR	KG 1 KG 1 KG 1	17512601-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MAN Cont.							
In-line engine, diesel, 10.0l D 2865 L/LOH/ LUH 02 LU 01/02/03/04/06 LF 02/03/04/06/10/15	6	128.00	3.50	T CR	KG 1	17512801-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.50	DSF CR	KG 1		
12.0l D 2866 F/FG/FR/OH/UH/UM/E/KOH /KUH/KU/KUL/KFZ/LFZ/LFZR /LOCH/LU/LUL/TOHTUH/TUM /K/KF/LUH/LXF/LU 01/03/04 LF 01/02/03/04/05/06/07/09 /15/22/35KF 09/LXE/LE 06109 /LH 02/LXUH/LXOH/LXFG/LX LFG/LXF/RXF/LOH 03	8						
V-type engine, diesel, 14.6l D 2848 LXE/LYE/LE/T/LZE	8						
18.3l D 2840 LE/LF/T/LE 2A/LF01/04/ LF 06 Euro 1/LF/LXF/LZE	10						
In-line engine, diesel, 10.0l D 2865 L/LOH/ LUH 02 LU 01/02/03/04/06 LF 02/03/04/06/10/15	6	128.00	3.50	T CR	KG 1	17512802-00	STD
			3.00	M P	LG 1		
			5.50	DSF CR	KG 1		
12.0l D 2866 F/FG/FR/OH/UH/UM/E /KOH/KUH/KU/KUL/KFZ/LFZ /LFZR/LOCH/LU/LUL/TOH TUH/TUM/K/KF/LUH/LXF/LU 01/03/04LF 01/02/03/04/05/06 /07/09/15/22/35KF 09/LXE/LE 06109/LH 02/LXUH/ LXOH/LXFG/LX/LFG/LXF /RXF/LOH 03	8						
V-type engine, diesel, 14.6l D 2848 LXE/LYE/LE/T/LZE	8						
18.3l D 2840 LE/LF/T/LE 2A/LF01/04/ LF 06 Euro 1/LF/LXF/LZE	10						



Make - Engine - Model			Ring type	Material	Powerseal No	Size
	No Ø mm.					
MAN Cont.						
In-line engine, diesel, 9.9l D 2865 L/LF19.262,19.332.	5 128.00	3.50 3.00 5.00	T CR M P DSF CR	KG 1 LG 1 KG 1	17512803-00	STD
11.9l D 2866 LXF 19.362,24.362,	6					
In-line engine, diesel, 18.3l D 2840 LF 20 Euro 2 Vehicle : 19.603,00, 26.603 FNL	V10 128.00	4.00 3.00 4.00	T CRP M CR DSF CR	KG 1 KG 1 KG 1	17512804-00	STD
In-line engine, diesel, 12.8l Diesel Turbo Intercooled Vehicle: D 2876 LF02 Euro 2; D 2876 LOH01 Euro 2	6 128.00	4.00 3.00 4.00	T CR M P DSF CR	KG 1 LG 1 KG 1		
Vehicle: D 2848	8				17512805-00	STD
Vehicle: D 2840	10					
Vehicle: D 2842	12					
In-line engine, diesel, 12.0l E 2866 LUH 1 Stationary engine	6 128.00	3.50 3.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	17512806-00	STD
In-line engine, diesel, 12.3l S12DA Vehicle: BS16, BS19, BS20, BS22	6 132.00	3.50 3.50 3.50 6.50 6.50	HK CR M P NM P DSF CR G P	KG 1 LG 1 LG 1 KG 1 LG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MARELLI							
Please see COMPRESSORS							
MAZDA							
In-line engine, fuel, 1.5l Z5 Gasoline Vehicle: Protege	4	75.30	1.00 1.20 2.50	R CR P NM P SLF CR	ST LG 2 ST	17607501-00	STD
In-line engine, fuel, 1.6l NA Vehicle: LUCE	4	78.00	1.50 2.00 4.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	17607800-00	STD
In-line engine, fuel, 1.6l ZL Gasoline Vehicle: Protege	4	78.00	1.20 1.50 3.00	R CR P NM P SLF CR	ST LG 1 ST	17607801-00	STD
In-line engine, fuel, 1.6l B6 Vehicle: Familia Van, Capella Cango Van	4	78.00	1.50 1.50 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	17607802-00	STD
In-line engine, fuel, 1.6l F 6 - G Vehicle: CAPELLA	4	81.00	1.50 1.50 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	17608100-00	STD
In-line engine, fuel, 1.8l FS / FP Vehicle: MPV, Cronos	4	83.00	1.20 1.50 3.00	R CR M P DSF CR	ST LG 1 KG 1	17608301-00	STD
In-line engine, diesel, 2.0l RF Vehicle: 626 Capella, HBES, HBEP, GC 6PGC8P, GCEP, Cosmo, Bongo, SRE9W	4	86.00	2.00 2.00 4.00	R CR M IW CR DSF CR	KG 1 KG 1 KG 1	17608601-00	STD
2.2l R2 Vehicle: E2000 Van, Pick Up, Crew Bus	4						

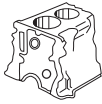

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MAZDA Cont.							
In-line engine, fuel, 2.0l F8, FE Vehicle: Capella, Luce	4	86.00	1.50	R CR	KG 1	17608602-00 17608602-07	STD + 0.50
			1.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine,diesel, 2.2l R2D	4	86.00	2.00	R IF CR P	KG 1	17608603-00 17608603-07	STD + 0.50
			2.00	M IW CR	KG 1		
			3.00	DSF CR P	KG 1		
In-line engine,diesel, 2.1l SH-VPTS Vehicle: CX-5, Atenza	4	86.00	2.00	R IF CR P	KG 1	17608604-00	STD
			1.50	M IF P	LG 1		
			2.00	DSFST CR	ST		
In-line engine,fuel, 2.3l L3-VDT Vehicle: Mazda 3, Mazda 6 AWD, Mazda CX-7 AWD, MPV III 4WD	4	87.50	1.50	R IF CR P	KG 1	17608701-00	STD
			1.50	M IFU P	LG 1		
			2.00	SLF CR	ST		
In-line engine,fuel, 2.2l L3-VE Vehicle: Atenza, MPV, Mazda 3, 5, 6, B2300, Tribute	4	87.50	1.20	R IF CR	ST	17608702-00 17608702-05 17608702-07	STD + 0.25 + 0.50
			1.20	NM P	LG 1		
			2.50	SLF CR	ST		
In-line engine, diesel, 2.2l S2 Vehicle : Luce 929	4	88.90	2.38	R CR	KG 1	17608801-00	STD
			2.38	M IF P	LG 1		
2.5l XA (new) Diesel Vehicle : Bongo	4		4.76	DSF CR	KG 1		
In-line engine, diesel, 2.5l, J15A, WL-T Vehicle: Freda, Bongo, Titan	4	93.00	2.50	R IF CR P	KG 1	17609301-00	STD
			2.00	R IW CR P	KG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, 2.9l W9 Vehicle: B2900		95.00	2.50	R CR	KG 1	17609501-00	STD
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MAZDA Cont.							
In-line engine, diesel, 3.0l WE Vehicle: BT-50	4	96.00	2.00	R IF NIT	ST	17609601-00	STD
			1.50	R NIT P	ST		
			2.00	DSFST CR P	ST		
In-line engine, diesel, 3.5l SL Diesel Vehicle: Trader	4	100.00	2.50	R CR	KG 1	17610001-00	STD
			2.00	R IW CR	KG 1		
			4.50	DSF CR	KG 1		
MERCEDES							
Please see DAIMLER BENZ							
MITSUBISHI							
In-line engine, diesel, MM408-730, NM45	1	65.00	2.50	R CR	KG 1	17706501-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, NM433-340 K3B-Tractor	1	68.00	2.50	R CRP	KG 1	17706801-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	DSF CRP	KG 1		
In-line engine, diesel, MM408-760	1	70.00	2.50	R CRP	KG 1	17707001-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	DSF CRP	KG 1		
In-line engine, diesel,		70.00	2.50	HK IFU CR P	KG 1	17707002-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	DSF CRP	KG 1		
In-line engine, diesel, TU13-F		70.00	2.50	HK IFU CR P	KG 1	17707003-00	STD
			3.00	M P	LG 1		
			4.00	DSF CRP	KG 1		
In-line engine, diesel, K3C-D1		70.00	2.50	HK IFU CR P	KG 1	17707004-00	STD
			2.50	M P	LG 1		
			4.00	DSF CRP	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
mitsubishi Cont.									
In-line engine, fuel,		72.00	1.00	R IF NIT	ST	17707201-00	STD		
			1.20	NM P	KG 2	17707201-05	+ 0.25		
			2.00	SLF CR	ST	17707201-07	+ 0.50		
In-line engine, diesel, K4D		73.00	2.50	HK CR P	KG 1	17707301-00	STD		
			2.00	M IF P	LG 1				
			2.00	NM P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine, fuel, 1.2l 3A92, 4A92 Vehicle: Mirage, Colt, Attrage, Lancer	4	75.00	1.00	R CR	ST	17707501-00	STD		
			1.20	M P	LG 1				
			2.00	SLF CR	ST				
In-line engine, diesel, L2E, L3E Industrial Machine	1	76.00	2.00	HK IFU CR	KG 1	17707601-00	STD		
			2.00	M IW P	LG 1				
			3.00	DSF CR	KG 1				
In-line engine, fuel, 4G18P Gasoli4G 1.6 Vehicle : Proton Waja	4	76.00	1.20	R CR	ST	17707602-00	STD		
			1.20	NM P	LG 2			17707602-07	+ 0.50
			2.50	SLF CR	ST				
In-line engine, diesel,		76.00	2.00	HK CR P	ST	17707603-00	STD		
			1.50	NM P	LG 1				
			4.00	DSF CR	LG 1				
In-line engine,diesel, K3E/K4E, For Industrial Machine (MM431579)	1	76.00	2.50	HK IFU CR	KG 1	17707604-00	STD		
			2.00	M IW CR P	KG 1				
			4.00	DSFST CR	ST				
In-line engine,diesel, L2E,L3E, (MM433152)	4	76.00	2.00	R IF CR P	KG 1	17707605-00	STD		
			2.00	NM P	LG 1			17707605-07	+ 0.50
			3.00	DSF CR	KG 1				
In-line engine,diesel,		78.00	2.50	T CR	KG 1	17707801-00	STD		
			2.00	NM P	LG 1				
			4.00	DSF CR P	KG 1				
In-line engine,diesel, NM75		78.00	2.50	R CR P	KG 1	17707802-00	STD		
			2.50	M P	LG 1				
			2.50	NM P	LG 1				
			4.00	DSF CR	KG 1				



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
mitsubishi Cont.							
In-line engine,diesel,		78.00	2.50	HK IFU CR P	KG 1	17707803-00 17707803-07	STD + 0.50
			2.00	M IW P	LG 1		
			4.00	DSF CR P	KG 1		
NM90		80.00	2.50	R CR P	KG 1	17708001-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine,diesel, 2.0l 4D 68 T, Vehicle: Lancer, Galant, Space 2.0	4	82.70	2.00	HK IFU CR P	ST	17708201-00	STD
			2.00	HKM CR P	KG 1		
			3.00	DSFST CR	ST		
In-line engine,diesel, K3G	4	82.00	2.50	HK CR	KG 1	17708202-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, fuel, 2.0l 4G63 Vehicle: Galant Z, Sapporo, A163, A164	4	85.00	2.00	R CR	KG 1	17708501-00 17708501-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine,fuel, DZL Vehicle: Savrin	4	85.00	1.20	R IF CR P	ST	17708502-00	STD
			1.20	NM P	LG 2		
			2.00	SLF CR	ST		
In-line engine,diesel, 2.2l 4HK, 4HN Vehicle: Outlander II	4	85.00	2.50	T CR P	KG 1	17708503-00	STD
			2.00	M IFU P	LG 1		
			2.00	DSFST CR	ST		
In-line engine,fuel, 2.0l 4G63K Vehicle: Galant Z, Eterna SA V A, Chariot	4	85.00	1.20	R IF CR	ST	17708504-00	STD
			1.50	N CR	KG 1		
			3.00	SLF CR	ST		
In-line engine,fuel, 2.3l 4G64K Vehicle: Galant	4	86.50	1.20	R CR	ST	17708601-00	STD
			1.50	NM P	LG 1		
			2.80	SLF CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
mitsubishi Cont.							
In-line engine, fuel, 2.0l 4B11 (1110A436) Vehicle: Galants Fortis	4	86.00	1.20	R CR	ST	17708602-00	STD
			1.20	NM P	KG 2		
			2.00	SLF CR P	ST		
In-line engine, fuel, 2.0l 420S Gasoline Vehicle: Eclipse	4	87.50	1.20	R IF CR P	ST	17708701-00	STD
			1.20	M P	KG 2		
			3.00	SLF CR P	ST		
In-line engine, diesel, S4Q2, (60617-70011)	4	88.00	2.50	HK CR	KG 1	17708801-00	STD
			2.00	R IW CR P	KG 1	17708801-07	+ 0.50
			4.00	DSF CR P	KG 1		
In-line engine, fuel, 2.4l 4B12 (1110A822, 1110C162) Vehicle: Lancer, Outlander	4	88.00	1.20	R IF CR	ST	17708802-00	STD
			1.20	NM P	LG 1	17708802-05	+ 0.25
			2.00	SLF CR	ST	17708802-07	+ 0.50
In-line engine, diesel, 2.4l 4D55 Vehicle: Galant 2300	4	91.10	2.50	R IF CR	KG 1	17709101-00	STD
			2.00	R IW CR	KG 1	17709101-07	+ 0.50
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.5l 4G54B Vehicle: Jeep, Galant Z, Dodge, Challenger	4	91.10	2.00	R CR P	KG 1	17709102-00	STD
			2.00	R CR P	KG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 2.4l 4D55T Vehicle: Galant 2300, Galant Eterna, L300, Pajero, Shogun Estate	4	91.10	2.50	HK IF CR P	KG 1	17709103-00	STD
			2.00	HK IFU CR P	KG 1	17709103-07	+ 0.50
			4.00	DSF CR P	KG 1		
2.5l 4D56T Vehicle: Pajero 4WD Turbo	4						
In-line engine, diesel, 2.5l 4D56T Vehicle: Strada, Delica Wagon, Space Gear, Challenger (1110B977)	4	91.10	2.50	HK CR	KG 1	17709104-00	STD
			2.00	HKM CR	KG 1	17709104-07	+ 0.50
			3.00	DSFST CR	ST		

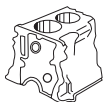

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, fuel, 3.0l 6G72,S2,S4 Vehicle: Galant, Pajero	V6	91.10	1.20 1.50 3.00	R CR M P SLF CR P	ST LG 1 ST	17709105-00	STD
In-line engine, fuel, 3.5l 6G74 Vehicle: Devonair	V6	93.00	1.50 1.50 3.00	R IF CR NM P SLF CR P	KG 1 LG 1 ST	17709301-00 17709301-07	STD + 0.50
In-line engine, diesel, 3.3l S4S, Industrial Machine		94.00	2.50 2.00 4.00	T CR R IW CR P DSF CR P	KG 1 KG 1 KG 1	17709401-00	STD
In-line engine, diesel, NM130		94.00	2.50 2.50 2.50 4.00	R CR P M P NM P DSF CR P	KG 1 LG 1 LG 1 KG 1	17709402-00	STD
In-line engine, diesel, S4E	4	94.00	2.50 2.50 4.50	T CR R CR P DSF CR P	KG 1 KG 1 KG 1	17709403-00	STD
In-line engine,diesel, 2.6l S4E Vehicle: Fork Lift (34417-11011)	4	94.00	2.50 2.00 4.50	HK CR M P DSF CR	KG 1 KG 1 KG 1	17709404-00	STD
In-line engine, diesel, ND130		95.00	2.50 2.50 2.50 4.00 4.00	R CR M P NM P G P DSF CR	KG 1 LG 1 LG 1 LG 1 KG 1	17709501-00	STD
In-line engine, diesel, 3.3l 4D30-FE 304 Vehicle: Rosa Bus,Canter Truck	6	100.00	3.00 2.00 5.00	HK CR P M IF P DSF CR P	KG 1 LG 1 KG 1	17710001-00	STD
In-line engine, diesel, 3.6l 4D31T Diesel 5.0l 6D31T	6	100.00	3.00 2.00 4.00	HK CR P R IW CR DSF CR	KG 1 KG 1 KG 1	17710002-00	STD

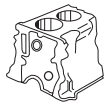

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
mitsubishi Cont.							
In-line engine, diesel, NM180		100.00	2.50	HK CR P	KG 1	17710003-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 3.9l 4D34-OA FE 449	4	104.00	3.00	T CR P	KG 1	17710401-00	STD
			2.00	M IW CR	KG 1		
			4.00	DSF CR P	KG 1		
In-line engine, Diesel, 3.6l 4D32 Vehicle: Canter	6	104.00	3.00	HK CR	KG 1	17710402-00	STD
			2.00	M IW CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 6.6l 6D14 Vehicle: Truck FK115, 115H, 115J, 115K, 115DK, T656ZR FM215, Bus MK115, 115H MM115C	6	110.00	3.00	HK CR P	KG 1	17711001-00	STD
			2.50	M IW CR P	KG 1		
			5.00	DSF CR P	KG 1		
In-line engine, diesel, 11.1l 6 D 22 A Vehicle: Bus 11.15, Cement Tanker 11.15, Concrete Mixer 11.15, Crane Truck 11.15, Dump Truck 11.15, Forklift 11.15 40T, Tank Truck 11.15, Tractor 11.15, Truck 11.15	6	130.00	3.50	T CR	KG 1	17713001-00	STD
			3.00	M IW CR	KG 1		
			6.00	DSF CR	KG 1		
In-line engine, diesel, Marine engine		170.00	3.65	T IF CR	KG 1	17717001-00	STD
			3.62	TM IW CR	KG 1		
			5.00	DSF CR	KG 1		

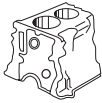

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MWM							
In-line engine, diesel, 0.6l D987,LKS Vehicle: Industriemotor	1	85.00	3.00	T CR	KG 1	17808501-00	STD
			3.00	NM P	LG 1	17808501-07	+ 0.50
			5.00	DSF CR	KG 1	17808501-11	+ 1.00
In-line engine, diesel, 0.6l RL11E, KD11E	1	85.00	2.50	R CR	KG 1	17808502-00	STD
			2.50	M IF P	LG 1		
			2.50	M IF P	LG 1		
			5.00	G P	LG 1		
1.3l KD211 Z	2	5.00	G P	LG 1			
1.1l KD11 Z	2						
In-line engine, diesel, 1.3l KD 110.5 Z	2	90.00	2.50	R CR	KG 1	17809001-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
			5.00	S P	LG 1		
2.0l KD 110.5 D	3						
2.7l KD 110.5 V	4						
4.0l KD 110.5 S	6						
In-line engine, diesel, 1.4 l. AKD 110.5Z	2	90.00	2.50	R CR	KG 1	17809002-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
			5.00	S P	LG 1		
In-line engine,diesel, AKD 311 Engines		90.00	2.50	HK CR	KG 1	17809003-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	S P	LG 1		
			5.00	S P	LG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MWM Cont.							
In-line engine, diesel, 745 cm ³ D 301	4	95.00	3.00	HK CR	KG 1	17809501-00 17809501-07 17809501-11	STD + 0.50 + 1.00
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
1.5l D 208 Z, D 302, D 308 Z	2						
1.7l D 225, D 325, 925 L	2						
2.2l D 208 D, D 303, D 308 D	3						
2.5l D 225, D 325, D 925 L3	3						
3.1l D 202, D 208 V, D 308 V	4						
3.4l D 225, D 325, 925 L	4						
4.5l D 202, D 208 S, D 308 S	6						
5.1l D 225, D 325, 925 L	6						
In-line engine, diesel, 3.4l KD12E/Z/D/V	1 2 3 4	95.00	3.00	R CR	KG 1	17809502-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
			5.00	D P	LG 1		
In-line engine, diesel, 3.0l 4.08 TCAE	4	96.00	2.50	T CR	KG 1	17809601-00	STD
			2.00	M IFU P	KG 1		
			3.00	NM CR	KG 1		
In-line engine, diesel, 3.6l AKD12/112	2 3 4	98.00	3.00	R CR	KG 1	17809801-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	D P	LG 1		
			5.00	D P	LG 1		
In-line engine, dieel, D 322 Engine		98.00	3.00	T CR	KG 1	17809802-00	STD
			3.00	M P	LG 1		
			3.00	M P	LG 1		
			5.00	D P	LG 1		
			5.00	D P	LG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MWM Cont.							
In-line engine, diesel, 1.9l D 227-2, D 227-2.2, D 327-2, D 327-2.2	2	100.00	3.00	T CR	KG 1	17810001-00	STD
			2.00	M P	LG 1		+ 0.50
			2.00	NM P	LG 1		+ 1.00
			4.00	DSF CR	KG 1		
2.8l D 227-3, D 227-3.2, D 327-3, D 327-3.2	3						
3.4l D 227-4, D 227-4.2, D 327, D 327-4.2, D 327-6.2	4						
5.7l D 227-6, D 227-6.2, D 327	6						
		100.00	3.00	R CR	KG 1	17810002-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	G P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, D 893, D 993	4	102.00	3.00	T CR	KG 1	17810201-00	STD
			2.50	M P	LG 1		
2.9l D 229	3		4.00	DSF CR	KG 1		
3.9l D 229	4						
5.9l D 229	6						
In-line engine, diesel, 4.10 TCA	4	103.00	3.00	T CR	KG 1	17810301-00	STD
			2.50	M P	LG 1		
6.10	6		4.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MWM Cont.							
In-line engine, diesel, 2.1l D 226-Z	2	105.00	3.00	T CR	KG 1	17810501-00	STD
			2.00	M P	LG 1		
	3		2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
3.1l D 226-D	3						
4.2l D 226-V, TD 226, TD 228	4						
6.2l D 226-S, TD 226, TD 228	6						
In-line engine, diesel, 2.8l D 226-Z	3	105.00	3.00	HK CR	KG 1	17810502-00	STD
			2.00	M P	LG 1		
	3		2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
3.1l D 226-D	3						
4.1l D 226-V	4						
In-line engine, diesel, 4.2l TD 226-4 Vehicle: Tractor 851/-4	4	105.00	3.00	T CR	KG 1	17810503-00	STD
			2.00	M P	LG 1		
	6		4.00	DSF CR	KG 1		
6.2l TD 226-6 Vehicle: Tractor 951	6						
In-line engine, diesel, 2.8l D 226-Z 29 kW (40 PS)	3	105.00	3.00	T CR	KG 1	17810504-00	STD
			2.50	M P	LG 1		
	3		2.50	NM P	LG 1		
			5.00	DSF CRP	KG 1		
3.1 l D 226-D 44 Kw(60 PS)	3						
4.1l D 226-V 59 kW (80 PS)	4						
In-line engine, diesel,		105.00	2.50	R CR	KG 1	17810505-00	STD
			3.00	M P	LG 1	17810505-07	+ 0.50
			3.00	NM P	LG 1	17810505-11	+ 1.00
			5.00	DSF CR	KG 1		
			5.00	D P	LG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
MWM Cont.							
In-line engine, diesel, 4.7l, 4.12 TCAE Euro 3 Vehicle: Dummy	4	105.00	3.00	T IF CR P	KG 1	17810506-00	STD
			2.50	NM P	LG 1		
			3.50	DSF CR P	KG 1		
7.2l, 6.12 TCAE Euro 3	6						
In-line engine, diesel, 18.0l TD 232-12, TBD 232-12	V12	120.00	3.50	T CR	KG 1	17812001-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
9.0l TD 232-S	V6						
12.0l TD 232-A	V8						
In-line engine, diesel, TD 232-12, TBD 232-12	V12	120.00	3.00	HK CR	KG 1	17812002-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
TD 232-S	V6						
TD 232-A	V8						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					



MWM Cont.



In-line engine, diesel, 33.2l, RHS518 V12, TRHSV12	12	140.00	3.50	R CR	KG 1	17814001-00	STD
			3.50	R P	LG 1		
			3.50	R P	LG 1		
44.3l, RHS518 V16. TRHS518 V16	16		6.00	G P	LG 1		
			6.00	G P	LG 1		
5.4l, RHS418/518Z	2						
8.3l, RHS418/518D	3						
11.1l, RHS415/518V, TRHS518V	4						
16.6l, RHS418/518S, TRHS518S	6						
22.2l, RHS418/518A, TRHS518A	8						
In-line engine, diesel,		170.00	3.50	T CR	KG 1	17817001-00	STD
			3.50	M CR	KG 1		
			6.00	DSF CR P	KG 1		



NISSAN



In-line engine, fuel, 1.0l CR10DE	4	71.00	1.20	R IF CR P	ST	17907101-00	STD
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.5l QG15DE Vehicle: Wingroad	4	73.60	1.20	R IF CR P	ST	17907301-00 17907301-07	STD + 0.50
			1.20	NM P	KG 2		
			2.50	SLF CR	ST		
In-line engine, fuel, 1.3l E13; E13S Vehicle: Cherry 1.3; Cherry Coupe 1.3, Cherry Hatchback 1.3; Cherry Traveller 1.3; Sunny 1.3; Sunny Coupe 1.3; Sunny Estate 1.3; AD Van 1.3; Sunny Mk II 1.3; Sunny Mk II Hatchback 1.3	4	76.00	1.50	R CR	KG 1	17907601-00 17907601-07	STD + 0.50
			1.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
1.5l E15; E15S Vehicle: Cherry Coupe 1.5; Cherry Hatchback 1; Cherry Traveller 1.5; Sunny 1.5; AD Van 1.5; Cherry 1.5; Prairie 1.5 S; Sunny 1.5; Sunny Estate 1.5; Sunny Mk II 1.5, Sunny Mk II Coupe 1.5; Sunny Mk II Estate 1.5; Sunny Mk II Hatchback 1.5	4						

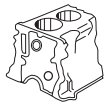

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, fuel, 1.6l GA16, GA16 DE Gasoline Vehicle: Sunny, Pulsar, Primera	4	76.00	1.50	R CR P	KG 1	17907602-00 17907602-07	STD + 0.50
			1.50	M P	LG 1		
			2.80	SLF CR P	ST		
In-line engine, diesel, 1.5l K9K Vehicle: MIQRA, JUKE, QASHQAI, NOTE	4	76.00	1.75	HK DLC	ST	17907603-00	STD
			1.75	M IFU P	LG 1		
			2.00	DSFST NIT	ST		
In-line engine, fuel, 2.0l Q20 Vehicle: Cefiro, Maxilma	V6	76.00	1.20	R IF CR	ST	17907604-00	STD
			1.20	NM P	LG 1		
			2.50	SLF CR	ST		
In-line engine, fuel, 1.2l HR16DE Vehicle: Tiida, Qashqai, NV200, Note, Micra, Juke, Cube 1.6 16V	4	78.00	1.20	R IF CR	ST	17907801-00	STD
			1.20	M P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.6l HR16DE Vehicle: Vanetta Wagon, March, Note Tida, Kicks	4	78.00	1.20	R IF CR	ST	17907802-00	STD
			1.00	M P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.6l MR16DDT Vehicle: Juke 16GT (12033-1KC0A)	4	79.70	1.20	R IF NIT	KG 1	17907901-00	STD
			1.00	NM P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.8l QG18	4	80.00	1.20	R IF CR P	ST	17908001-00 17908001-07	STD + 0.50
			1.20	NM P	LG 2		
			2.50	SLF CR P	ST		
In-line engine, fuel, 1.8l QG18DE	4	80.00	1.20	R CR P	ST	17908002-00	STD
			1.20	R CR P	ST		
			2.50	SLF CR P	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
NISSAN Cont.							
In-line engine, diesel, 2.0l SD20 Diesel Vehicle: Cedric, QG31Y, Q131	4	83.00	2.50	R CR	KG 1	17908301-00 17908301-07	STD + 0.50
			2.00	M IF P	LG 1		
			2.00	M IF P	LG 1		
			4.50	DSF CR	KG 1		
2.2l SD22 Diesel Vehicle : Junior, Caball	4		4.50	D P	LG 1		
3.2l SD33T Diesel Vehicle : Truck QC80, QSC80, DQSC80	6		2.50	HK CR P	KG 1	17908302-00 17908302-07	STD + 0.50
			2.00	R IW CR P	KG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 3.2l SD33, SD33T Vehicle: Truck QC80, QSC80, DQSC80	6	83.00	2.50	HK CR P	KG 1	17908302-00 17908302-07	STD + 0.50
			2.00	R IW CR P	KG 1		
			4.00	DSF CR P	KG 1		
In-line engine, fuel, 2.0l CA20A Vehicle: Bluebird	4	84.50	1.50	R CR	KG 1	17908401-00 17908401-07	STD + 0.50
			1.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l, MR20DD, MR20DE, MR-FFV Vehicle: Tiida, Lafesta, Cube, Versa, Sentra, Serena	4	84.00	1.20	R IF CR	ST	17908402-00 17908402-07	STD + 0.50
			1.20	NM P	LG 2		
			2.00	SLF CR	ST		
In-line engine, diesel, 2.0l, CD20 Vehicle: Truck	4	84.50	2.00	R IF CR	KG1	17908403-00	STD
			2.00	R IW CR	KG1		
			3.00	DSF CR	KG1		
In-line engine, fuel, 3.9l Vehicle: WGL 1600 GFCP ,Jonga	4	85.70	2.50	R CR	KG 1	17908501-00	STD
			2.50	M P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, fuel, 1.9l LD20	4	85.00	2.00	R IW CR	KG 1	17908502-00 17908502-07	STD + 0.50
			2.00	M IW P	LG 1		
			4.00	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, 2.3l M9T.702 Vehicle: NV400 dCi 140	4	85.00	2.00	HK CR P	KG 1	17908503-00 17908503-07	STD + 0.50
			1.75	M IFU CR	KG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.2l YD22DDT, YD22DDTi Vehicle: Almera, Primera	4	86.00	2.00	HK CR	KG 1	17908601-00	STD
			2.00	M IW P	LG 1		
			3.00	DSFST CR	ST		
In-line engine, diesel, 2.3l LD23 Vehicle: Serena	4	87.00	2.00	R IW CR	KG 1	17908701-00 17908701-07	STD + 0.50
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.2l G9T 722 Vehicle: Interstar Box dCi 90, Interstar Bus dCi 90	4	87.00	3.00	HK CR	KG 1	17908702-00	STD
			1.75	M IFU P	LG 1		
			2.50	DSF CR	KG 1		
In-line engine, diesel, 2.5l YD25 DDTI / TCID22 Vehicle: Pickup Skster,Navara	4	89.00	2.00	HK CR	KG 1	17908901-00 17908901-07	STD + 0.50
			2.00	R IF CR	KG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, Z24	4	89.00	2.00	R IF CR	KG 1	17908902-00 17908902-05 17908902-07 17908902-09 17908902-11	STD + 0.25 + 0.50 + 0.75 + 1.00
			1.50	NM CR P	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.4l KA24DE, QR25DE Vehicle: Altima, Navara	4	89.00	1.20	R CR P	ST	17908903-00	STD
			1.20	M P	KG 2		
			2.50	SLF CR P	ST		
In-line engine, fuel, 2.4l KA24 Vehicle: Largo, MH11,W30	4	89.00	1.50	R CR	ST	17908904-00 17908904-05 17908904-07	STD + 0.25 + 0.50
			1.50	NM P	LG 2		
			2.80	SLF CR P	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
In-line engine, diesel, 2.5l TD25 Vehicle: Cabstar D22, Pick up ALGD21, KALGD21, UALGD21, Urvan E24	4	92.90	2.50 2.00 4.00	M CR P R IW CR P DSF CR P	KG 1 KG 1 KG 1	17909201-00	STD
In-line engine, diesel, A4.28 II		93.00	3.00 2.00 3.50	T CR P M IWU P DSF CR P	KG 1 LG 1 KG 1	17909301-00	STD
In-line engine, diesel, A 4.28 T	4	94.00	3.00 2.50 4.00	R IW CR M IF P DSF CR	KG 1 LG 1 KG 1	17909401-00	STD
In-line engine, diesel, A 4.28 T	4	94.00	3.00 2.50 4.00	T IW CR P M IFU P DSF CR P	KG 1 LG 1 KG 1	17909402-00	STD
In-line engine, fuel, VQ35 Gasoline	6	95.50	1.20 1.20 2.50	R CR M P SLF CR P	ST KG 2 ST	17909501-00 17909501-07	STD + 0.50
In-line engine, diesel, 2.7l TD27 Vehicle:	4	96.00	2.50 2.00 3.00	R CR M IW CR DSFST CR	KG 1 KG 1 ST	17909601-00	STD
In-line engine, diesel, 2.7l TD27 Diesel Vehicle: TD 27 Turbo, BD300 Turbo (Ecotech)	4	96.00	2.50 2.00 4.00	R CR M IW CR DSF CR	KG 1 KG 1 KG 1	17909602-00	STD
In-line engine, diesel, 4.2l TD42 AD3 Vehicle : Datsun Jeep	4	96.00					
In-line engine, diesel, ZD30E	4	96.00	2.50 2.00 3.00	HK CR M IW CR DSFST CR	KG 1 KG 1 ST	17909603-00	STD
In-line engine, diesel, 3.0l Z30, ZD30T (78-130 kW, 105-170 PS) Vehicle: Patrol, Caravan, Urvan, Homy, Elgrand, Terrano	4	96.00	2.50 2.00 2.00	HK CR M IW CR DSFST CR	KG 1 KG 1 ST	17909604-00 17909604-07	STD + 0.50



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
NISSAN Cont.							
In-line engine, diesel,		100.00	3.00 2.50 4.00	T IF CR P M IF P DSF CR P	KG 1 LG 1 KG 1	17910001-00	STD
In-line engine, diesel, B4.40, B6.60		100.00	2.50 2.50 4.76	R IW CR M IF P DSF CR	KG 1 LG 1 KG 1		
In-line engine, diesel, 3.3l, ED33 Datsun	4	100.00	2.00 2.00 4.00	R CR M IW CR DSFST CR	KG 1 KG 1 ST		
In-line engine, fuel, 10.3l PD6 Vehicle: CK20, TK20, U20, TFA21, CD40,CV40	6	125.00	5.00 3.50 5.00	R CR P R IW CR DSF CR P	KG 1 KG 1 KG 1	17912501-00	STD
In-line engine, diesel, 11.7l PE6T Vehicle: CD45	6	133.00	4.00 3.50 6.00	HK CR P R IW CR P DSF CR P	KG 1 KG 1 KG 1		
In-line engine, diesel, 16.0l RF8 Vehicle: CD520	8	138.00	2.50 2.50 4.00	R IF CR P M IW CR DSF CR	KG 1 KG 1 KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL							
In-line engine, diesel, 1.3 Z13DT Vehicle: Agila JTD, Corsa JTD	4	69.60	2.00	R CR	KG 1	18006901-00 18006901-06	STD + 0.40
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 1.0l X 1.0 XE Vehicle: Corsa	3	72.50	1.20	R CR	ST	18007201-00	STD
			1.50	M P	LG 1		
			2.00	SLF CR	ST		
1.2l X 1.2 XE Vehicle : Astra	4						
In-line engine, fuel, 1.2l C 1.2 Z Vehicle: Corsa	4	72.00	1.50	R CR	KG 1	18007202-00 18007202-07	STD + 0.50
			1.50	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.0l 1.0 Vehicle: Kadett A/B/C/D	4	72.00	2.00	R CR	KG 1	18007203-00	STD
			2.00	M P	LG 1		
			5.00	DSF P	LG 1		
In-line engine, fuel, 1.3l A14NEL, B 14 NET Vehicle: Astra, Cascada, Corsa, Insigna, Mokka, Zafira	4	72.50	1.20	R CR P	ST	18007204-00 18007204-07	STD + 0.50
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.0l Z1.0 XEP Vehicle : Agila, Astra, Corsa	3	73.40	1.20	R CR	ST	18007301-00 18007301-07	STD + 0.50
			1.20	NM P	LG 2		
			2.00	SLF CR	ST		
1.2l Z1.2 XEP Vehicle : Agila, Astra, Corsa	4						
1.4l Z1.4 XEP Vehicle : Agila, Astra, Corsa	4						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, fuel, 1.4l Vehicle : Chevy Sail	4	73.80	1.20 1.20 2.00	R CR M P SLF CR	ST LG 1 ST	18007302-00	STD
In-line engine, fuel, 1.0l B10XFL Vehicle : Astra K, Corsa, Adam	3	74.00	1.20 1.20 2.00	R CR NM P SLF CR	ST LG 1 ST	18007401-00	STD
1.4l B14XFT Vehicle: Mokka, Astra K	4						
In-line engine, fuel, 1.3l C 1.3 N 1.3 S Vehicle: Ascona, Corsa, Kadett, Manta	4	75.00	1.50 1.50 4.00	R CR M P DSF CR	KG 1 LG 1 KG 1	18007501-00 18007501-07 18007501-09	STD + 0.50 + 0.75
In-line engine, fuel, 1.3l 13N, 13 S Vehicle: Ascona, Corsa, Kadett, Manta	4	75.00	1.75 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18007502-00	STD
In-line engine, fuel, 1.3l Corsa 1.3 MPFI	4	75.00	1.50 1.50 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	18007503-00 18007503-05 18007503-07	STD + 0.25 + 0.50
In-line engine, diesel, 1.5l 4EC1, 4EC1T, X15DT Vehicle: Corsa 1.5D, Kadett 1.5D	4	76.00	2.00 1.50 3.00	R IF CR M P DSF CR	KG 1 LG 1 KG 1	18007601-00 18007601-07	STD + 0.50
In-line engine, fuel, 1.4l 1.4 NVH, C 1.4 NZ, X 14 SZ, C 1.4 SE Vehicle: Vectra, Corsa, Kadett, Astra	4	77.60	1.50 1.50 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18007702-00 18007702-07	STD + 0.50
In-line engine, fuel, 1.2l 1.2S Vehicle: Corsa, Kadett	4	77.80	1.50 1.50 4.00	R IF CR M P DSF CR P	KG 1 LG 1 KG 1	18007703-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, fuel, 1.2l 12ST Vehicle: Ascona, Corsa, Kadett, Manta	4	77.80	1.75 2.00 4.00	R CR P M P DSF CR P	KG 1 LG 1 KG 1	18007704-00	STD
In-line engine, fuel, 1.4l Z 14 XE Vehicle: Astra, Corsa	4	77.60	1.20 1.50 2.00	R CR NM P SLF CR	ST LG 1 ST	18007705-00 18007705-07	STD + 0.50
In-line engine, fuel, 1.2l 1.2 NV/N/E/GV/S Vehicle: Ascona, Kadett, Manta, Corsa	4	79.00	2.00 2.00 5.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18007901-00 18007901-07 18007901-11	STD + 0.50 + 1.00
In-line engine, diesel, 1.7l Y17DT, Z17DTH Vehicle: Meriva, Corsa, Astra	4	79.00	2.00 1.50 3.00	R CR R CR DSF CR	KG 1 KG 1 KG 1	18007902-00 18007902-07 18007902-11	STD + 0.50 + 1.00
In-line engine, fuel, 1.6l 1.6 LZ, SE, SZ, SV C 1.6 NZ, X 16 SZ, X 16 SZR Vehicle: Ascona, Kadett, Corsa, Astra	4	79.00	1.20 1.50 3.00	R CR P NM P DSF CR P	ST LG 1 KG 1	18007903-00 18007903-07 18007903-11	STD + 0.50 + 1.00
In-line engine, fuel, 1.6l X16 XEL 16 V Vehicle: Astra 16v, Meriva 16v, Zafira 16v, Vectra 16v	4	79.00	1.20 1.50 2.50	R CR NM P DSF CR	ST LG 1 KG 1	18007904-00 18007904-07	STD + 0.50
In-line engine, fuel, 1.6l Z 1.6 XEP Vehicle: Meriva, Corsa, Zafira, Astra	4	79.00	1.20 1.20 2.00	R CR NM P SLF CR	ST LG 2 ST	18007905-00 18007905-07	STD + 0.50
In-line engine, fuel, 1.6l X 1.6 XE Vehicle: Astra, Vectra	4	79.00	1.20 1.50 2.00	R CR NM P SLF CR	ST LG 1 ST	18007906-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, diesel, 1.7l A17DT, A17DTC, A17DTS Vehicle: Meriva, Astra, Zafira, Corsa	4	79.00	2.00 2.00 3.00	HK CR M CR P DSFST CR	KG 1 LG 1 ST	18007907-00	STD
In-line engine, fuel, 1.6l X16XEL Vehicle: Astra, Corsa, Tigra, Vectra, Zafira	4	79.00	1.20 1.50 2.50	R CR NM P SLF CR	ST LG 1 ST	18007908-00 18007908-07 18007908-11	STD + 0.50 + 1.00
In-line engine, diesel, 1.6l B16 DTE, B 16 DTH Vehicle: Astra, Insigna, Meriva, Mokka, Zafira	4	79.70	1.50 1.50 2.00	R CR P M IFU P DSFST CR	KG 1 LG 1 ST	18007909-00	STD
In-line engine, fuel, 1.6l 1.6 N/S Vehicle: Ascona, Kadett	4	80.00	1.50 1.75 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18008001-00	STD
In-line engine, diesel, 1.6l DA Vehicle: Kadett D/E, Ascona C	4	80.00	2.00 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	18008002-00 18008002-07 18008002-11	STD + 0.50 + 1.00
In-line engine, fuel, 1.5l Vehicle: Olympia, Rekord	4	80.00	2.50 2.50 5.00	R IF CR M P DSF CR	KG 1 LG 1 KG 1	18008003-00	STD
In-line engine, fuel, 1.8l X18 XE1, Z18 XE Vehicle: Astra, Vectra, Zafira, Corsa	4	80.50	1.20 1.20 2.00	R CR NM P SLF CR	ST LG 2 ST	18008004-00 18008004-07	STD + 0.50
In-line engine, diesel, 2.5l X 25 TD Vehicle: Omega TD	6	80.00	3.00 1.75 3.00	T CR M IFU P DSF CR	KG 1 LG 1 KG 1	18008005-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, fuel, 1.8l C18XE Vehicle: Vectra, Calibra 1.8	4	81.60	1.50	R IF CR	KG 1	18008100-00 18008100-07	STD + 0.50
			1.50	NM P	LG 1		
			3.00	DSF CR	KG 1		
2.5l C25XE Vehicle: Vectra, Calibra 2.5	6						
In-line engine, diesel, 1.7l 1.7DR, 1.7 YD Vehicle: Kadett D/E, Vectra, Astra	4	82.50	2.00	R CR	KG 1	18008203-00 18008203-07 18008203-11	STD + 0.50 + 1.00
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l Z 19 DTH, Z 19 DTJ Vehicle: Astra, Vectra, Zafira, Signum	4	82.00	2.00	R CR	KG 1	18008204-00	STD
			2.00	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.0l A20DTH, A20DT, A20DTE, A20DTJ, A20DT Vehicle: ZAFIRA, INSIGNIA, ASTRA GTC, CASCADA	4	83.00	1.50	R CR P	KG 1	18008301-00	STD
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.0l Z20DTH, Z20DT Vehicle: ANTARA	4	83.00	2.00	T CR	KG 1	18008302-00	STD
			2.00	M P	LG 1		
			3.00	DSFST CR	ST		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, diesel, 1.9l Z 19 DT + DTH, Z 19 DTJ + DTL Vehicle: Astra, Vectra, Zafira, Signum	4	84.00	2.50	T CR	KG 1	18008401-00	STD
			1.75	M P	LG 1		
			3.00	DSF CR	KG 1		
2.0l X 2.0 DTH Vehicle: Astra, Vectra, Omega	4						
2.2l X 2.2 DTH Vehicle: Astra, Frontera, Vectra, Omega, Sintra, Signum, Zafira Astra, Vectra, Omega	4						
In-line engine, fuel, 1.8l 1.8 E/C/NV Vehicle: Ascona, Kadett, Rekord	4	84.80	1.50	R CR	KG 1	18008402-00	STD
			1.75	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.8l 1.8 E/NE/NZ/NV/S, EC 1.8 NV Vehicle: Omega, Kadett GSI, Ascona, Manta	4	84.80	1.50	R CR	KG 1	18008403-00 18008403-07	STD + 0.50
			1.50	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.0l X 20 DTL Vehicle: Vectra	4	84.00	2.00	R CR	KG 1	18008404-00	STD
			1.75	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.0l Y 2.0 DTH Vehicle: Astra 2.0 DTI + 2.2, DTI	4	84.00	1.75	R CR	KG 1	18008405-00	STD
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
2.2l Y 2.2 DTH Vehicle: Vectra 2.0 DTI + 2.2, DTI , Zafira	4						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, fuel, 1.7l 1.8 E/NE/NZ/NV/S, EC 1.8 NV Vehicle: Record, Kadett GSI, Ascona, Manta	4	85.00	2.50	R CR	KG 1	18008501-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l 16N, 16S Vehicle: Record, Kadett GSI, Ascona, Manta	4	85.00	2.00	R CR	KG 1	18008502-00	STD
			2.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 2.3l M9T.700, 702, 706 Vehicle: Movano B	4	85.00	2.00	HK CR P	KG 1	18008503-00	STD
			1.75	M IFU CR	KG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.0 l 2.0D Vehicle: Rekord 2.0 D, Ascona 2.0	4	86.48	2.00	R CR	KG 1	18008601-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.2l 1.2 S Vehicle: Ascona, Kadett, Manta	4	86.00	1.50	R CR	KG 1	18008602-00	STD
			1.50	M P	LG 1	18008602-07	+ 0.50
			3.00	DSF CR	KG 1	18008602-11	+ 1.00
2.0l C 2.0-LET/NZ/XE, C 2.0 XEV-4V, 2.0 SE/E/NE, C 2.0 E Vehicle: Vectra, Astra, Frontera, Calibra Turbo 4x4, Kadett GSi, Omega	4						
In-line engine, fuel, 2.2l Z 2.0 SE, Z 2.0 LET Vehicle: Speedster, Frontera, Astra, Zafira	4	86.00	1.20	R CR	ST	18008603-00	STD
			1.50	NM P	LG 1	18008603-07	+ 0.50
			2.50	SLF CR	ST		
2.0l Y 2.0 LET	4						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, fuel, 2.2l 20 SE, SEH, XE, JEH C20 LET, NE, SEL, XE X20 SE, XEV, Vehicle: Rekord E, Kadett E, Omega, Astra	4	86.00	1.50	R CR	KG 1	18008604-00 18008604-07	STD + 0.50
			1.50	NM P	LG 1		
			3.00	SLF CR	ST		
2.2l X22 SE, XE Frontera, Sintra	4						
3.0l X30 XE Omega B, Sintra APV	6						
In-line engine, fuel, 1.7l 1.7 S/L Vehicle: Kadett,Rekord	4	87.98	2.00	R CR	KG 1	18008701-00	STD
			2.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 2.1 l 2.1 LD Vehicle: Rekord D,Blitz D	4	87.98	2.00	R CR	KG 1	18008702-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 2.5l 25H, 25S, 25CIH Commodore GS, Blitz,Senator	6	87.00	2.00	R CR	KG 1	18008703-00	STD
			2.00	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, fuel, 3.2l Y 3.2 SE Vehicle: Omega 3.2	6	87.50	1.20	R CR	ST	18008704-00	STD
			1.50	NM P	LG 1		
			2.50	SLF CR	ST		
In-line engine, fuel, 2.6l C26NE Vehicle: Omega,Senator	6	88.78	1.50	R IF CR	KG 1	18008801-00	STD
			1.50	M IF P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.3l 2.3 TD Vehicle: Rekord D,Omega D,	4	91.98	2.00	R IF CR	KG 1	18009101-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
OPEL Cont.							
In-line engine, diesel, 2.3l 23DTR, 2.3 TD Vehicle : Frontera, Monza, Omega 2.3TD, Rekord,Senator 2.3TD	4	91.98	2.50	T CR P	KG 1	18009102-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.9l 1.9 S Vehicle: Ascona, Manta, Rekord Kadett E, Ascona E, Manta E Rekord E, Senator E, Monza E	4	92.98	2.00	R CR	KG 1	18009201-00	STD
			2.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 2.5l S8U 758 Vehicle: Arena 2.5 D	4	93.00	3.00	T CR	KG 1	18009301-00	STD
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l 2.0 S, 2000 N/S/E Vehicle: Ascona, Manta, Rekord Kadett E, Ascona E, Manta E Rekord E, Senator E, Monza E	4	94.98	2.00	R CR	KG 1	18009401-00 18009401-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
3.0l 3.0 E/NE, C 3.0 LE/NE Vehicle: Monza, Omega, Senator	6						
In-line engine, fuel, 2.4l C 2.4 NE Vehicle: Omega,Frontera	4	94.98	1.50	R CR	KG 1	18009402-00	STD
			1.50	M P	LG 1		
			3.00	DSF CR	KG 1		
3.0l C 3.0 SE-4V Vehicle: Omega, Senator	6						
In-line engine, diesel, 2.8l 8140.23.2585/.3700 Vehicle: Movano	4	94.40	2.50	T CR	KG 1	18009403-00	STD
			2.00	M P	LG 1		
			2.50	DSF CR	KG 1		
In-line engine, fuel, 2.2l Monza,Rekord,Senator	4	95.00	1.75	R CR	KG 1	18009501-00 18009501-07	STD + 0.50
			1.50	M P	LG 1		
			3.50	DSF CR	KG 1		

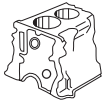

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

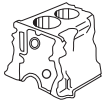

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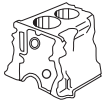

In-line engine, fuel, 1.8l 20N Vehicle: Ascona, Kadett, Manta, Omega, Rekord, Senator	4	95.00	2.00 2.00 4.00	R CR P M P DSF CR	KG 1 LG 1 KG 1	18009502-00	STD
In-line engine, fuel, 2.4l C 24 NE Vehicle: Frontera, Omega	4	95.00	1.50 1.50 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18009503-00	STD
3.0l C 30 SE Vehicle: Frontera, Omega, Senator	6						



PEGASO



In-line engine, diesel, 5.4l Super Comet		107.21	3.00 2.38 2.38 6.33 6.33	HK CR P M IF P NM P DSF CR P G P	KG 1 LG 1 LG 1 KG 1 LG 1	18410701-00	STD
In-line engine, diesel, 6550 ccm, 9135,9135/2,9135/12,9135/13, 9135/15,9135/20,9135/30 Vehicle: 1133,1133L,1216,2020B,3046T, 5064T,5068,5317,6025,6060	6	107.21	3.00 2.38 2.38 6.33	HK CR P M IF P NM P DSF CR P	KG 1 LG 1 LG 1 KG 1	18410702-00	STD
In-line engine, diesel, 10.5l 9105, 9106 Vehicle: 1065, 2022, 2180	6	120.00	3.00 3.00 3.00 6.00 6.00	HK CR P M IF P NM P DSF CR P G P	KG 1 LG 1 LG 1 KG 1 LG 1	18412001-00	STD
In-line engine, diesel,		120.00	3.00 3.00 3.00 4.00	T CR P M IF P NM P DSF CR P	KG 1 LG 1 LG 1 KG 1	18412002-00	STD
In-line engine, diesel, 12.0l, 96R 11EX Vehicle: 1236.38 R, T - Troner	6	130.00	3.50 3.00 4.00	T IF CR P M IWU CR DSF CR P	KG 1 KG 1 KG 1	18413001-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS							
In-line engine, diesel, TE20 - TEA20 - TED20 - TEF20 - TO20 - 35 - 35X MF181983M1		63.50	3.16	M IF P	LG 1	18506301-00	STD
			3.16	M IF P	LG 1		
			3.16	M IF P	LG 1		
In-line engine, diesel,		67.00	1.50	R NIT	ST	18506701-00	STD
			1.50	R IF CR P	LG 1		
			3.00	DSFST NIT	ST	18506701-07	+ 0.50
In-line engine, diesel, 115507980		75.00	2.00	R CR	KG 1	18507501-00	STD
			1.50	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, KD Series: 115107201		75.00	2.00	R CR	KG 1	18507502-00	STD
			1.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 1.1l 403A, 403C, 403D, 403F (Euro 2, 3) 1.5l 404C, 404D (Euro 2, 3) Vehicle: Series 1300, 2400 115104090		77.00	2.00	R IF CR	KG 1	18507701-00	STD
			1.50	R IF CR	KG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.8l 4.107, 4.108 Vehicle: Tractor 41158087	4	79.38	1.99	R IF CR	KG 1	18507901-00	STD
			1.60	M P	LG 1		
			1.60	M P	LG 1		
			3.16	NM P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 1.8l 4.107, 4.108 Vehicle: Tractor 41158086	4	79.38	1.99	R CR	KG 1	18507902-00	STD
			1.60	M P	LG 1		
			1.60	M P	LG 1		
			4.76	DSF CR	KG 1		
			4.76	D P	LG 1		
In-line engine, diesel, 5.3l 5337cc Vehicle: Bedford-Blitz EJM 2/3 ,EJN 3	4	79.38	1.99	R IF CR	KG 1	18507903-00	STD
			2.50	NM P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 1.8l 4.108 41158008	4	79.38	1.99	R CR	KG 1	18507904-00	STD
			1.60	M P	LG 1		
			1.60	M P	LG 1		
			4.76	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
PERKINS Cont.									
In-line engine, diesel, Massey Ferguson Agricultural Tractor 825305M1		80.00	2.38	R P	LG 1	18508001-00	STD		
			2.38	R P	LG 1				
			4.76	S P	LG 1				
			4.76	S P	LG 1				
In-line engine, diesel, TEF20 1881798M91		81.00	2.00	R CR P	KG 1	18508101-00	STD		
			2.00	M P	LG 1				
			2.00	M P	LG 1				
			4.00	S P	LG 1				
			4.00	S P	LG 1				
In-line engine, diesel, 2.6l Vehicle: Tractors FE 35-C23 MF 702,OHV 35 894900M91	4	84.14	2.38	R CR	KG 1	18508401-00	STD		
			2.38	M P	LG 1				
			2.38	NM P	LG 1				
			4.76	GSF CR	KG 1				
			4.76	G P	LG 1				
In-line engine, diesel, 2.0l 4.20 NA Vehicle: Austin, Rover, Montego, Sherpa	4	84.45	2.00	R CR	KG 1	18508402-00	STD		
			1.75	M P	LG 1				
			3.00	DSF CR	KG 1				
								18508402-07	+ 0.50
In-line engine, diesel, 1.5l 403C-15 Vehicle: 400 Series 1-115017491-2	3	84.00	2.00	R CR	KG 1	18508403-00	STD		
			1.50	R IW CRP	KG 1			18508403-05	+ 0.25
			3.00	DSF CR	KG 1			18508403-07	+ 0.50
								18508403-11	+ 1.00
In-line engine, diesel, 100 Series 115104080		84.00	2.00	R CR	KG 1	18508404-00	STD		
			1.50	R IW CRP	KG 1			18508404-07	+ 0.50
			4.00	DSF CR	KG 1			18508404-11	+ 1.00
In-line engine, diesel, 400 Series 1-115017581-2 115104021		84.00	2.00	HK CR P	KG 1	18508405-00	STD		
			1.50	R IW CR P	KG 1			18508405-07	+ 0.50
			3.00	DSF CR	KG 1				
TO35, Z134 Continental Gas		84.14	3.17	R IF P	KG 1	18508406-00	STD		
			3.17	R IF P	KG 1				
			3.16	N P	LG 1				
			4.76	SLF CR	ST				
2.0l 120 CID Vehicle: Z120 Continental Gas		84.14	2.38	R CR P	KG 1	18508407-00	STD		
			2.38	M IFU P	LG 1				
			3.97	S P	LG 1				
			3.97	SLF CR	ST				
2.3l 140 CID Vehicle: F140/F4140									

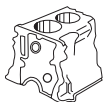

Make - Engine - Model				Ring type	Material	Powerseal No	Size				
	No	Ø mm.									
PERKINS Cont.											
In-line engine, diesel, 115104130		84.00	2.00	HK CR	KG 1	18508408-00	STD				
			1.50	R CR	KG 1	18508408-07	+ 0.50				
			2.00	DSFST CR	ST	18508408-11	+ 1.00				
700-Series 1-U5LL0036-2 82819M1		85.00	2.00	R IF P	LG 1	18508501-00	STD				
			2.00	R IF P	LG 1						
			2.00	R IF P	LG 1						
			4.76	S P	LG 1						
			4.76	S P	LG 1						
In-line engine, diesel, 2.2l 134 CID Vehicle: Z 13		85.72	3.16	R CR P	KG 1	18508502-00	STD				
			3.16	M IFU P	LG 1						
			3.16	M IFU P	LG 1						
			4.76	DSF CR	KG 1						
In-line engine, diesel, 2.1l 129 CID Vehicle: Z 129 Continental 2.2l 134 CID Vehicle: Z 134 Continental		85.72	2.38	R CR P	KG 1	18508503-00	STD				
			2.38	M IFU P	LG 1						
			2.38	M IFU P	LG 1						
			4.76	DSF CR	KG 1						
			2.00	R P	LG 1						
			2.00	R P	LG 1						
			2.00	R P	LG 1						
			4.76	S P	LG 1						
			4.76	S P	LG 1						
			In-line engine, diesel, 2.4l P 3.144 3.2l P 4.192, PA, PB 4.7l P 6.288, PF, PG Vehicle: Python, Puma, Panther 1937 41158063	3	88.90			2.38	R CR	KG 1	18508801-00
2.38	M IF P	LG 1									
3.16	NM P	LG 1									
4	6.33	DSF CR		KG 1							
	6.33	D P		LG 1							
6											
In-line engine, diesel, 2.5l 4.154 41158116	3	88.90		2.38		R CR	KG 1	18508802-00	STD		
				2.38		M IF P	LG 1				
				2.38		NM P	LG 1				
			4.76	DSF CR	KG 1						
			4.76	D P	LG 1						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, B 700		88.90	2.00	R IF CR	KG 1	18508803-00	STD
			2.00	M IF P	LG 1	18508803-07	+ 0.50
			2.00	M IF P	LG 1	18508803-09	+ 0.75
			5.00	GSF P	LG 1	18508803-11	+ 1.00
In-line engine, diesel, G176, MF65, MF165, MF165G, MF3165		90.88	3.17	R CR	KG 1	18509001-00	STD
			3.17	M IFU P	LG 1		
			3.17	M IFU P	LG 1		
			6.35	DSF CR P	KG 1		
In-line engine, diesel, 2.5l T3.152 MF 225 T 41158144	3	91.49	2.38	R CR P	KG 1	18509100-00	STD
			2.38	M IW P	LG 1		
			4.76	DSF CR P	KG 1		
In-line engine, diesel, 2.5l 3.152, P 3.152 3.3l 4.203, P 4.203 5.0l 6.305 P6.305	3	91.49	2.38	R CR	KG 1	18509101-00	STD
			2.38	M IF P	LG 1		
			2.38	NM P	LG 1		
	4	91.49	6.33	DSF CR	KG 1		
			6.33	D P	LG 1		
6	91.49						
In-line engine, diesel, 2.5l 3.152.2 3.3l 4.203.2 41158065	3	91.49	2.38	R CR P	KG 1	18509102-00	STD
			2.38	M IF P	LG 1		
			2.38	M IF P	LG 1		
			4.76	DSF CR P	KG 1		
In-line engine, diesel, 2.5l 3.152.2 3.3l 4.203.2 41158066	3	91.49	2.38	R CR P	KG 1	18509103-00	STD
			2.38	M IF P	LG 1		
			2.38	M IF P	LG 1		
			6.35	DSF CR P	KG 1		
In-line engine, diesel, 2.5l 3.152, P 3.152 3.3l 4.203, P 4.203 5.0l 6.305, P 6.305 41158057	3	91.49	2.38	R CR	KG 1	18509104-00	STD
			2.38	M IF P	LG 1		
			3.16	NM P	LG 1		
	4	91.49	6.33	DSF CR	KG 1		
			6.33	S P	LG 1		
6	91.49						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, 2.5l 3.152, P 3.152, D 3.152	3	91.49	2.38	M IF P	LG 1	18509105-00	STD
			2.38	M IF P	LG 1		
			3.16	NM P	LG 1		
3.3l D 4.203, P 4.203	4	91.49	6.33	DSF P	LG 1	18509105-00	STD
			6.33	D P	LG 1		
5.0l 6.305, P 6.305 41158058	6	91.49					
In-line engine, diesel, 253,355,360,363,364 4181A017	3	91.49	3.00	T CR	KG 1	18509106-00	STD
			2.38	R CR	KG 1		
			3.50	DSF CR	KG 1		
In-line engine, diesel, 135 41158012	3	91.49	2.38	R CR	KG 1	18509107-00	STD
			2.38	M IF P	LG 1		
			6.33	DSF CR	KG 1		
In-line engine, diesel, 4181A105, U5LL0036	3	91.00	2.00	R CR	KG 1	18509108-00 18509108-07	STD + 0.50
			2.00	M IFU P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2,8l, PWER STRKE	4	93.00	2.50	T CR	KG 1	18509301-00	STD
			2.00	M IWU P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, MPRK0002		94.00	2.50	HK CR	ST	18509401-00 18509401-07	STD + 0.50
			2.00	R IW CR P	KG 1		
			4.00	DSFST CR	ST		
In-line engine, diesel, 2210,3315,4215,4315 4181A051	3	95.00	3.00	T CR	KG 1	18509501-00 18509501-07	STD + 0.50
			2.00	M IFU P	LG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 263,2220,3325,4220,4320 4181A035	3	95.00	2.50	R CR	KG 1	18509502-00 18509502-07	STD + 0.50
			2.00	M IFU P	LG 1		
			4.00	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, 4A, UC 4181A101		97.00	2.00	R CR	KG 1	18509701-00	STD
			2.00	M IFU P	LG 1	18509701-05	+ 0.25
			4.00	DSF CR	KG 1	18509701-07	+ 0.50
In-line engine, diesel, 3.9l AD 4.236, D 39 C 5.8l 6.354/V, 6.354.2, 6.354.4 41158041	4	98.48	2.38	R CR	KG 1	18509801-00	STD
			2.38	M P	LG 1	18509801-05	+ 0.25
			2.38	NM P	LG 1	18509801-07	+ 0.50
	6	98.48	6.33	DSF CR	KG 1	18509801-09	+ 0.75
			6.33	D P	LG 1	18509801-11	+ 1.00
In-line engine, diesel, 3.5l 4.212 engine-no. 712 UA 87004 3.9l AD 4.236, D 39 C 41158044	4	98.48	2.38	R CR	KG 1	18509802-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
	6.33	DSF CR P	KG 1				
4	98.48						
In-line engine, diesel, 3.9l 6.354 41158017, 41158147	4	98.48	2.38	R CR	KG 1	18509803-00	STD
			2.38	R IF CR	KG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 5.8l 6.354.4 41158005	6	98.48	3.16	T CR	KG 1	18509804-00	STD
			2.38	M P	LG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 5.8l 6.354.2	6	98.48	3.16	M P	LG 1	18509805-00	STD
			2.38	M IF P	LG 1		
			2.38	NM P	LG 1		
			6.33	D P	LG 1		
			6.33	D P	LG 1		
In-line engine, diesel, 3.9l AD 4.236, D 39 C Vehicle: Volvo P4 ,MF 275,MF 265,D 350 41158047	4	98.48	2.38	M P	LG 1	18509806-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			6.33	D P	LG 1		
			6.33	D P	LG 1		
In-line engine, diesel, 3.4l 41158045	6	98.48	2.38	R CR	KG 1	18509807-00	STD
			2.38	R IF CR	KG 1		
			6.33	DSF CR	KG 1		

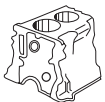

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, 3.8l T4.236, 4.38 Vehicle: PD 700 AS,HC,LC 4181A022	4	98.48	3.16	T CR	KG 1	18509808-00	STD
			2.38	R IF CR	KG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 5.8l T6.354/T6.354.1 41158031	6	98.48	3.16	R CR	KG 1	18509809-00	STD
			2.38	R IF CR	KG 1		
			2.38	R IF CR	KG 1		
			6.33	DSF CR	KG 1		
In-line engine, diesel, 5.8l 6.354.2 41158032	6	98.48	3.16	R CR	KG 1	18509810-00	STD
			2.38	R IF CR	KG 1		
			2.38	R IF CR	KG 1		
			6.33	DSF CR	KG 1		
In-line engine, diesel, 3.9l 4.236	4	98.48	2.38	R CR	KG 1	18509811-00	STD
			2.38	M IF P	LG 1		
			2.38	NM P	LG 1		
			4.76	DSF CR	KG 1		
LPG		98.48	2.38	R CR	KG 1	18509812-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 5.8l Vehicle: 6.354.2; 6.354.1	6	98.48	3.17	R CR	KG 1	18509813-00	STD
			2.38	M P	LG 1		
			2.38	M P	LG 1		
			6.33	DSF CR	KG 1		
In-line engine, diesel, 5.8l Vehicle: 6.354.1 41158026		98.48	2.38	R CR	KG 1	18509814-00	STD
			2.38	R IW CR	KG 1		
			2.38	M IW P	LG 1		
			6.33	D P	LG 1		
In-line engine, diesel, 6.0l 1004-4 T/TW, 1006-6 T/TW Vehicle: Phaser 110T, 120 TI 4181A021	3	100.00	3.00	T CR P	KG 1	18510001-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR P	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, T4.40, T6.60 Vehicle: Policeman 4181A026	6	100.00	3.50	T IW CR	KG 1	18510002-00 18510002-07	STD + 0.50
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 4.0l 4,40 Vehicle: BH 509,Phaser 90 65(87PS),PW 250,PD 250 AS 4181A019	4	100.00	2.50	R CR	KG 1	18510003-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 4.0l T4.40 Euro 2 6.0l T6.60 Euro 2 4181A033	4	100.00	3.50	T IW CR	KG 1	18510004-00 18510004-07	STD + 0.50
			2.50	NM P	LG 1		
	6	3.50	DSF CR	KG 1			
In-line engine, diesel, 4.1l 4.248 04/82 6.1l 6.372 4181A009	4	101.05	2.38	R CR	KG 1	18510101-00	STD
			2.38	M IF P	LG 1		
			2.38	NM P	LG 1		
6.33	DSF CR	KG 1					
In-line engine, diesel, 4.1l 4.248.2 41158022	4	101.05	2.50	R CR	KG 1	18510102-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 4.0l 4.248 4181A009	4	101.05	2.38	R CR	KG 1	18510103-00	STD
			2.38	R IF CR	KG 1		
			2.38	R IF CR	KG 1		
6.33	DSF CR	KG 1					
In-line engine, diesel, 4.0l 4.248 Vehicle: MF 285 41158022	4	101.05	2.50	R CR	KG 1	18510104-00	STD
			2.50	R IF CR	KG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 4.0l Vehicle: 4.248	4	101.05	2.38	R CR	KG 1	18510105-00	STD
			2.38	M P	KG 1		
			2.38	M P	KG 1		
4.76	DSF CR	KG 1					

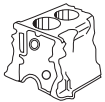

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, Vehicle: P4000 Aspirated Turbo Trapezoid angle 3°	4	101.05	3.00	T CR	KG 1	18510106-00	STD
			2.50	M IFU P	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, P4000 Aspirated, Turbo Vehicle: P4001 NA, P4001T Trapezoid angle 7.5°	4	101.05	3.00	T CR	KG 1	18510108-00	STD
			2.50	M IFU P	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 394,2230,3235,3240,4235 8925,8926,8937,8939 4181A045	4	103.00	2.50	R CR	KG 1	18510301-00 18510301-07 18510301-11	STD + 0.50 + 1.00
			2.50	NM P	LG 1		
	6		3.50	DSF CR	KG 1		
In-line engine, diesel, 5,84l 6.357, 6.357 .2 Vehicle: Agricola MF1075	6	104.14	2.38	R IF CR	KG 1	18510401-00	STD
			2.38	M IF P	LG 1		
			6.33	DSF CR	KG 1		
			6.33	S P	LG 1		
In-line engine, diesel, 5,84l 6.358 Vehicle: Agricola, Industrial, Veicular	6	104.14	2.38	R CR	KG 1	18510402-00	STD
			2.38	M IF P	LG 1		
			4.76	DSF CR	KG 1		
			4.76	S P	LG 1		
In-line engine, diesel, 4,4l 1100 series 1103C-DD-DG , 1104 RG-RH-RJ-RK Vehicle: MF 266-6256-277-288 1 1103T Euro 2 Turbo, Landini UPRK002	4	105.00	3.50	T CR	KG 1	18510501-00 18510501-07 18510501-11	STD + 0.50 + 1.00
			2.50	M IFU P	LG 1		
			3.50	DSF CR	KG 1		
In-line engine, diesel, 2,4l 1100 series 1104C-DF DC 1104C -RE-RF-RR UPRK003		105.00	2.50	R CR	KG 1	18510502-00 18510502-05 18510502-07 18510502-11	STD + 0.25 + 0.50 + 1.00
			2.50	M IFU P	LG 1		
			3.50	DSF CR	KG 1		
In-line engine, diesel, 1106C - E60TA - Euro 2 UPRK005		105.00	3.00	T CR	KG 1	18510503-00 18510503-07 18510503-11	STD + 0.50 + 1.00
			2.50	M IFU P	LG 1		
			3.00	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, 8.3l V 8.5 10, NA 180 Vehicle: MF 285 41158136	4	107.95	2.38	R IF CR	KG 1	18510701-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			6.33	DSF CR	KG 1		
In-line engine, diesel, 8.9l V 8.540 41158137	V8	107.95	2.38	R IF CR P	KG 1	18510703-00	STD
			2.38	R IF CR P	KG 1		
			4.76	DSF CR	KG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, A4.270 788 Series 41158121	4	107.95	3.17	R CR	KG 1	18510704-00	STD
			3.17	M P	LG 1		
			3.17	M P	LG 1		
			6.33	D P	LG 1		
			6.33	D P	LG 1		
In-line engine, diesel, 8.8l TV 8.540, TV 8.540 M Vehicle: Marine engine	V8	107.95	3.00	T CR P	KG 1	18510705-00	STD
			2.38	M P	LG 1		
			3.50	DSF CR	KG 1		
In-line engine, diesel, U5MK0073-R, 41158137		107.95	2.38	R CR P	KG 1	18510706-00	STD
			2.38	M CR P	LG 1		
			4.76	DSF CR	KG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel, 620DS,620DSRAE,620DWBAE 634DS, 634DSBAE Vehicle: Tractor 3670,8140,8150,8240, 3690,8160,8250,8260,8250Xtra 8260Xtra 3638610M91	6	108.00	3.00	T CR	KG 1	18510801-00	STD
			2.50	M IFU P	LG 1		
			4.00	DSF CRP	KG 1		
In-line engine, diesel, 612DS Vehicle: Tractor 3680,3690 3637620M91	6	108.00	2.50	R CRP	KG 1	18510802-00	STD
			3.00	M IFU P	LG 1		
			5.00	DSF CRP	KG 1		
In-line engine,diesel, WR9740, V837 079 46	V8	108.00	3.00	T IF CR P	KG 1	18510803-00	STD
			2.50	M IFU P	LG 1		
			3.00	DSFST CR	ST		

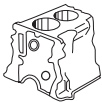

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PERKINS Cont.							
In-line engine, diesel, 5.2l 4.318 41158118	4	114.30	2.38	R CR	KG 1	18511401-00	STD
			2.38	M IF P	LG 1		
			2.38	M IF P	LG 1		
			6.33	DSF CR	KG 1		
In-line engine, diesel, 5.2l 4.318 41158132	4	114.30	2.38	R CR	KG 1	18511402-00	STD
			2.38	M IF P	LG 1		
			6.33	DSF CR	KG 1		
In-line engine, diesel, 1300E (1822337C91)	6	116.60	3.50	T CR	KG 1	18511601-00	STD
			3.16	T IW CR	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 1300 Series 1830724C92		116.60	3.50	T CR	KG 1	18511602-00	STD
			3.00	M IFU P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 12.2l 2006-12T1,12T2,12TA,12TW Vehicle: Stationary engine	6	130.17	3.17	T CR	KG 1	18513001-00	STD
			3.25	M IF CR	KG 1		
			4.76	DSF CR	KG 1		
In-line engine, diesel,		135.00	4.00	T CR	KG 1	18513501-00	STD
			3.00	R IF CR	KG 1		
			6.00	DSF CR	KG 1		
KRP1569	6	137.16	3.96	T IW CR P	KG 1	18513701-00	STD
			3.00	M IW CR P	KG 1		
			4.00	DSF CR P	KG 1		
In-line engine, diesel, 4006, 4008, 4016		160.00	4.50	R CR	KG 1	18516001-00	STD
			3.50	M IFU CR	KG 1		
			6.00	DSF CR	KG 1		
In-line engine, diesel, 4181A256		160.00	3,50	T CR	KG 1	18516002-00	STD
			3.50	M IW P	LG 1		
			6.00	DSF CR	KG 1		

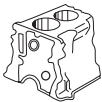

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PETTER							
In-line engine, diesel, 219 cc. Aircooled	1	69.85	1.99	R IF CR	KG 1	18606901-00	STD
			1.99	M IW P	LG 1		
			4.00	D P	LG 1		
			4.00	D P	LG 1		
In-line engine, diesel, 304 cm ³ AC1,AC1W AB1,AB1W	1	76.20	1.99	R CR	KG 1	18607601-00	STD
			1.99	R P	LG 1		
			3.96	DSF CR	KG 1		
608 cm ³ AC2,AC2W	1						
In-line engine, diesel, 347 cm ³ PAZ1	1	76.20	2.38	R CR	KG 1	18607602-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			4.76	DSF CR	KG 1		
			4.76	D P	LG 1		
In-line engine, diesel, 533cm ³ AV1	1	80.00	2.38	R CR	KG 1	18608001-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			4.76	DSF CR	KG 1		
533 cm ³ AVA1	1					18608001-07	+ 0.50
						18608001-11	+ 1.00
						18608001-14	+ 1.50
1.1l AV2	1						
1.1l AVA2	1						
In-line engine, diesel, PH1,PH2, Water Colled	3	87.31	2.38	R CR	KG 1	18608701-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			4.76	DSF P	LG 1		
					18608701-09	+ 0.75	
					18608701-11	+ 1.00	
					18608701-14	+ 1.50	
In-line engine, diesel,		87.50	2.38	R CR	KG 1	18608702-00	STD
			2.38	M P	LG 1		
			4.76	S P	LG 1		
			4.76	S P	LG 1		
		95.00	3.00	R CR	KG 1	18609501-00	STD
			3.00	M P	LG 1		
			3.00	MP	LG 1		
			5.00	S P	LG 1		
			5.00	S P	LG 1		



Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
PETTER Cont.								
In-line engine, diesel, P JW, P J	3	96.88	2.38	R CR	KG 1	18609601-00 18609601-07 18609601-11	STD + 0.50 + 1.00	
			2.38	M P	LG 1			
			2.38	NM P	LG 1			
			4.76	DSF CR	KG 1			
		102.00	2.50	R CR	KG 1	18610201-00 18610201-07 18610201-11	STD + 0.50 + 1.00	
			2.50	M P	LG 1			
			2.50	M P	LG 1			
			4.50	D P	LG 1			
			4.50	D P	LG 1			
In-line engine, diesel, Armstrong Air Colled	3	107.95	3.17	R CR	KG 1	18610701-00 18610701-07 18610701-09 18610701-11 18610701-14	STD + 0.50 + 0.75 + 1.00 + 1.50	
			3.17	M P	LG 1			
			3.17	M P	LG 1			
			6.33	DSF CR	KG 1			
			6.33	D P	LG 1			
PEUGEOT								
In-line engine, fuel, 1.0l XV3,XV5,XV8 Vehicle: 104-205	4	70.00	2.00	R CR	KG 1	18807001-00	STD	
			2.00	NM P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine, fuel, 1.0l TU9 Vehicle: 106-205	4	70.00	1.50	R CR	KG 1	18807002-00 18807002-07	STD + 0.50	
			1.50	M P	LG 1			
			3.00	DSF CR	KG 1			
In-line engine, fuel, 1.0l CFB (1KR) Vehicle: 107, 108	3	71.00	1.00	R IF CR	ST	18807101-00	STD + 0.50	
			1.00	NM P	ST			
			1.50	SLF CR	ST			
In-line engine, fuel, 1.0l ZMZ (1KR-EP) Vehicle: 208 I	3	71.00	1.00	R IF CR	ST	18807102-00 18807102-07	STD + 0.50	
			1.00	NM P	ST			
			2.00	DSFST CR	ST			
In-line engine, fuel, 1.1l TU1 K/M/Z Vehicle: 106-205-306-309	4	72.00	1.50	R CR	KG 1	18807201-00 18807201-07	STD + 0.50	
			2.00	M P	LG 1			
			3.00	DSF CR	KG 1			

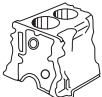

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, fuel, 1.1l XW7 Vehicle: 104-205	4	72.00	1.50	R CR	KG 1	18807202-00 18807202-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.1l TU1 JP Vehicle: C2, C3, 206	4	72.00	1.50	R CR	KG 1	18807203-00 18807203-07	STD + 0.50
			1.50	NM P	LG 1		
			2.50	DSF CR	KG 1		
In-line engine, diesel, 1.4l DV4, 8HX Vehicle: 206 HDi éco 70 206 SW HDI éco 70	4	73.70	2.50	T CR	KG 1	18807301-00 18807301-07	STD + 0.50
			1.95	M IFU P	LG 1		
			2.50	DSFST CR	ST		
In-line engine, diesel, 1.4l 8HR(DV4C) Vehicle: 207HDÝ	4	73.70	2.50	T CR P	KG 1	18807302-00	STD
			1.95	M IFU P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 1.1l E1A, M24, 1-F1 Vehicle: 309	4	74.00	1.75	R IF CR	KG 1	18807401-00	STD
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.2l XZ 5 Vehicle: 104 1.4l XY 6 B, XY 7, XY 8 Vehicle: 104, 205	4	75.00	1.75	R CR	KG 1	18807501-00 18807501-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.4l TU 3 A, K2D Vehicle: 205, XR, GR, SR, C3, 405, 309, VITAL, GRX, CATA, GR, 106, XS, XY, 306, XA, XRA	4	75.00	1.75	R CR	KG 1	18807502-00 18807502-07	STD + 0.50
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
		75.00	2.50	R CR	KG 1	18807503-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
			4.00	G P	LG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, fuel, 1.1l XK Vehicle: 204	4	75.00	2.00 2.00 4.50	R CR M P DSF CR	KG 1 LG 1 KG 1	18807504-00	STD
In-line engine, diesel, 1.3l XLD, XL4D 204 1.3 Diesel	4	75.00	1.50 1.50 4.00	R CR M P DSF CR	KG 1 LG 1 KG 1	18807505-00	STD
In-line engine, fuel, 1.4l TU3JP Vehicle: 106 1.4i, 206 1.4i, 306 1.4i, 307, Partner 1.4i	4	75.00	1.50 1.50 2.50	R CR NM P DSFST CR	KG 1 LG 1 ST	18807506-00 18807506-07	STD + 0.50
In-line engine, diesel, 1.4l TUD3 Vehicle: 106 1.4D, 1.4XAD, 1.4XND, 1.4XRD, 1.4XTD	4	75.00	2.25 1.75 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	18807507-00	STD
In-line engine, diesel, 1.6l 9HV, 9HX, 9HZ Vehicle : 207 HDI, 307, 407, 3008, 308	4	75.00	3.00 1.95 2.50	T CR NM P DSFST CR	KG 1 LG 1 ST	18807508-00 18807508-07	STD + 0.50
In-line engine, fuel, 1.4l KFU-ET3J4 (65 kW-88PS) Vehicle: 307, 1007, Citroen C2, C3	4	75.00	1.20 1.50 2.50	R CR CR NM P DSFST CR	ST LG 1 ST	18807509-00	STD
In-line engine, diesel, 1.6l 9HF, 9HH, 9HP, 9 HR Vehicle: 301, Expert, 207, 208, 308, 508, 5008, Partner, Expert, 3008	4	75.00	2.50 1.95 2.00	T CR NM P DSFST CR	KG 1 LG 1 ST	18807510-00 18807510-07	STD + 0.50
In-line engine, fuel, 1.2l EB2, EB2M Vehicle: 108, 2008, 208, 308 II, 301	3	75.00	1.00 1.00 2.00	R CR N P DSFST CR	ST ST ST	18807511-00 18807511-07	STD + 0.50



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, fuel, 1.4l, TU3 JP Vehicle: 106, 206, 306, 307, Partner1.4 i	4	75.00	1.50 1.50 2.50	R CR NM P SLF CR	KG 1 LG 1 ST	18807512-00	STD
In-line engine, fuel, 1.2l, HNV, HNY, HNZ Vehicle: 2008, 208, 3008, 308, 5008, Partner Box Body, Partner Tepee	3	75.00	1.20 1.00 2.00	R DLC N P DSFST CR	ST ST ST	18807513-00 18807513-07	STD + 0.50
In-line engine, fuel, 1.3l XL 3, XL 3 S Vehicle: 304	4	76.00	1.75 2.00 4.00	R CR NM P SLF CR	KG 1 LG 1 ST	18807601-00	STD
In-line engine, fuel, 1.3l G 1 A Vehicle: 309	4	76.70	1.75 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18807602-00 18807602-06 18807602-10	STD + 0.40 + 0.80
In-line engine, fuel, 1.6l 5FN, 5FV, 5GZ Vehicle: C4, C5, DS3, DS4, DS5	4	77.00	1.20 1.20 2.00	R CR P NM P DSFST CR	ST LG 1 ST	18807701-00	STD
In-line engine, diesel, 1.5l TUD 5, ATMO Vehicle: 106	4	77.00	2.00 1.75 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	18807702-00 18807702-06	STD + 0.40
In-line engine, fuel, 1.3l XL4D Vehicle: 104-205-304	4	78.00	1.75 2.00 3.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	18807801-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, fuel, 1.3l XL 5 Vehicle: 304, 305	4	78.00	1.75	R CR	KG 1	18807802-00	STD
			2.00	M IF P	LG 1		
			4.00	DSF CR	KG 1		
1.5l XR 5, XR 5 S Vehicle: 305	4						
In-line engine, fuel, 1.6l TU5 JP Vehicle: 306, 405	4	78.50	1.50	R CR	KG 1	18807804-00	STD
			1.50	NM P	LG 1	18807804-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l TU5 JP Vehicle: 106 1.6i Griffe, 106 1.6i Rallye, 206 1.6i, 306 1.6i, 307	4	78.50	1.20	R CR	ST	18807805-00	STD
			1.50	NM P	LG 1	18807805-05	+ 0.25
			2.50	DSF CR	KG 1	18807805-07	+ 0.50
						18807805-09	+ 0.75
						18807805-11	+ 1.00
In-line engine, fuel, 1.6l Vehicle: Samand EF7	4	78.60	1.20	R IF CR P	ST	18807806-00	STD
			1.50	NM P	LG 1	18807806-05	+ 0.25
			2.50	SLF CR	ST	18807806-07	+ 0.50
						18807806-09	+ 0.75
In-line engine, fuel, 1.6l TU5 JD Vehicle: 106, 206, 307	4	78.50	1.20	R CR P	ST	18807807-00	STD
			1.50	NM P	LG 1		
			2.50	SLF CR	ST		
In-line engine, diesel, 1.5l XID80 Vehicle: 304D-305D	4	80.00	1.75	R CR	KG 1	18808001-00	STD
			2.00	NM P	LG 1	18808001-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.8l XUD 7, 161 A Vehicle: 205, 309	4	80.00	2.00	R CR	KG 1	18808002-00	STD
			2.00	M P	LG 1	18808002-05	+ 0.25
			3.00	DSF CR	KG 1	18808002-07	+ 0.50
In-line engine, diesel, 1.7l XUD7 TE-A 8 B Vehicle: 405TD-205TD-309	4	80.00	3.00	T CR	KG 1	18808003-00	STD
			2.00	M P	LG 1	18808003-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, fuel, 1.5l 403/8 Vehicle: D4A - D4B	4	80.00	2.00	R CR	KG 1	18808004-00	STD
			2.00	M P	LG 1		
			4.50	G P	LG 1		
			4.50	G P	LG 1		

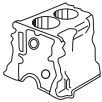

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, diesel, 2.7l DT17TED4, UHZ Vehicle: 607 HDI, 407 HDI		81.00	2.00	R IF CR	KG 1	18808101-00	STD
			2.00	M IFU P	LG 1	18808101-07	+ 0.50
			2.00	DSFST CR	ST		
In-line engine, diesel, 1.9l DW 8 Vehicle: Partner 206,306	4	82.20	2.00	R CR	KG 1	18808201-00	STD
			2.00	M P	LG 1	18808201-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l XUD 9, XUD 9 A Vehicle: 205, 305, 306, 309, 405, J5 406, Boxer 10/95 Partner	4	83.00	2.00	R CR	KG 1	18808301-00	STD
			2.00	M P	LG 1	18808301-06	+ 0.40
			3.00	DSF CR	KG 1	18808301-07	+ 0.50
						18808301-08	+ 0.60
						18808301-10	+ 0.80
In-line engine, fuel, 1.6l XU 5S/5J Vehicle: 205, 309,305,405	4	83.00	1.75	R CR	KG 1	18808302-00	STD
			1.75	M P	LG 1	18808302-06	+ 0.40
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l XU 5 J/JA Vehicle: 205, 309	4	83.00	1.50	R CR	KG 1	18808303-00	STD
			1.50	M P	LG 1	18808303-07	+ 0.50
			4.00	DSF CR	KG 1		
In-line engine, fuel, 1.9l XU 9 J/4 Vehicle: 405 Mi16,309GTI	4	83.00	1.50	R CR	KG 1	18808304-00	STD
			1.50	NM P	LG 1	18808304-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l XUD 9TE, Vehicle: 405, J5	4	83.00	3.50	T CR	KG 1	18808305-00	STD
			2.00	M P	LG 1	18808305-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l XUD9 TE/TF Vehicle: 306 1.9TD,405 1.9TD, 406 1.9TD, Boxer 1.9TD, Expert 1.9TD	4	83.00	3.00	T CR	KG 1	18808306-00	STD
			2.00	M P	LG 1	18808306-06	+ 0.40
			3.00	DSF CR	KG 1	18808306-07	+ 0.50
						18808306-10	+ 0.80



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, fuel, 1.6l XU5JP, XU9J4, XU7JP4, XU7JP Vehicle: 306, 309, 405, 406, 806, Expert, Partner	4	83.00	1.50 1.50 3.00	R IF CR P NM P SLF CR	KG 1 LG 1 ST	18808307-00	STD
In-line engine, diesel, 1.8l XU7JP, XU5JP, XU9J4 Vehicle: 306, 309, 405, 406, 806, Expert, Partner	4	83.00	1.50 1.50 3.00	R IF CR P NM P DSFST CR	KG 1 LG 1 ST	18808308-00	STD
In-line engine, diesel, 1.8l 4N13 Vehicle: C4 AIRCROSS	4	83.00	2.00 1.50 2.00	HK CR M CR P DSFST CR	ST KG 1 ST	18808309-00	STD
In-line engine, fuel, 1.6l XC 6, XC 5/A/P, XC 7 Vehicle: 404, 77 E, J 7, J 9, 504	4	84.00	2.00 2.00 4.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	18808401-00	STD
In-line engine, fuel, 2.0l ZEJ 829.90 77/81 kW (105/110 PS) Vehicle: 505 2.2l ZDJK, J 7 T 980/892, ZDJL 86 - 92,5 kW (117 - 126 PS) Vehicle: 505	4	84.00	1.50 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18808402-00 18808402-07	STD + 0.50
In-line engine, diesel, 3.0l, DT20C Vehicle: 407 Coupe	6	84.00	2.00 2.00 2.00	R IF CR M IFU P DSFST CR	KG 1 LG 1 ST	18808403-00	STD
In-line engine, diesel, 3.0l, DT20C Vehicle: 407 Coupe	6	84.00	1.75 1.75 2.00	B CR M IFU P DSFST CR	KG 1 LG 1 ST	18808404-00	STD

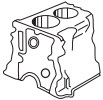

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, diesel, 2.0l RHH Vehicle: 3008, 308, 407, 5008 2.0 HDI	4	85.00	3.50	T CR	KG 1	18808501-00 18808501-08	STD + 0.60
			2.00	M IFU P	LG 1		
2.2l 4HK, 4HN, 4 HT Vehicle: 4007, 807	4		3.00	DSF CR	KG 1		
In-line engine, diesel, 2.1l XUD11 BTE Vehicle: 406 2.1TD,605 2.1TD	4	85.00	3.00	T CR	KG 1	18808502-00 18808502-08	STD + 0.60
			2.00	M IF P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l EW 10J4-RFN Vehicle: Evasion, XSARA, C5, 206, 307, 406, 807	4	85.00	1.20	R IF CR	ST	18808503-00 18808503-07	STD + 0.50
			1.50	NM P	LG 1		
			2.50	DSF CR	KG 1		
In-line engine, diesel, 2.0l 4HK, 4HN, 4 HL, RHH Vehicle: 4007, 407, 508, 308, 5008, 3008	4	85.00	2.50	T CR	KG 1	18808504-00	STD
			2.00	M IFU P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, diesel, 2.0l AHH Vehicle: 3008, 308, 407, 5008, 508, 807, Boxer, Expert, RCZ, Traveler	4	85.00	2.00	HK CR	KG 1	18808505-00	STD
			2.00	M IFU P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 2.0l XU10 Vehicle: 406-605	4	86.00	1.50	R CR	KG 1	18808601-00 18808601-05 18808601-07 18808601-08 18808601-10	STD + 0.25 + 0.50 + 0.60 + 0.80
			1.75	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.2l 4HG, 4HH, 4 HJ Vehicle: Transit 2.2 TDCI, JUMPER 2.2 HDI, Boxer III 2.2 HDI	4	86.00	2.00	R IF CR	KG 1	18808602-00 18808602-07	STD + 0.50
			2.00	NM P	LG 1		
			2.00	DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, fuel, 2.0l XU 10 2 C, XU 10 J 2, XU 10 J 4 + R Vehicle: Evasion, Jumper, Xantia, Xsara, XM, ZX	4	86.00	1.50	R CR	KG 1	18808603-00	STD
			1.75	NM P	LG 1		
			3.00	SLF CR	ST		
In-line engine, fuel, 3.0l ES9J4, ES9J4-S (152 kW- 207PS) Vehicle: 406, 607, 807 3.0 V6 24V	6	87.00	1.50	R IF CR P	KG 1	18808701-00	STD
			1.50	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l XN 1, XN 2, XN 1 T, XN 1 P Vehicle: 504, 505, J 5, J 9	4	88.00	1.50	R CR	KG 1	18808801-00 18808801-07	STD + 0.50
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
V-type engine, fuel, 2.7l ZM/112, ZNJ Vehicle: 504, 604	6						
In-line engine, diesel, 2.0l XD/XDP/TMD 4.88 Vehicle: 404 D, U 6 D, U 8 D, U 10 D 504 D, J 7 D	4	88.00	2.00	R CR	KG 1	18808802-00	STD
			2.00	M P	LG 1		
			2.00	NM P	LG 1		
4.50	DSF CR	KG 1					
2.9l XDP 6.88	4						
In-line engine, fuel, 2.0l ZEJ 829.90 Vehicle: 505	4	88.00	1.75	R CR	KG 1	18808803-00 18808803-07	STD + 0.50
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
2.2l ZDJK, J 7 T 980/892, ZDJL Vehicle: 505	4						
In-line engine, diesel, 2.1l XDP 4.90 Vehicle: 504, J 7, J 9	4	90.00	2.00	R IW CR	KG 1	18809001-00	STD
			2.00	M P	LG 1		
			2.00	NM P	LG 1		
4.50	DSF CR	KG 1					
3.2l XDP 6.90 Vehicle: 504 D, J 7 D	6						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, diesel, 2.9l ZNJK, ZN 3 J Vehicle: 505 V6, 604	6	91.00	1.50 2.00 4.00	R CR M P DSF CR	KG 1 LG 1 KG 1	18809101-00	STD
In-line engine, diesel, 2.5l DJ5 Vehicle: Boxer 2.5D	4	92.00	2.25 2.00 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	18809201-00 18809201-06 18809201-07	STD + 0.40 + 0.50
In-line engine, diesel, 2.5l DK5ATE Vehicle: Boxer,806,605	4	92.00	3.00 1.75 3.50	T CR R IF CR DSF CR	KG 1 KG 1 KG 1	18809202-00 18809202-07	STD + 0.50
In-line engine, diesel, 2.5l DJ5T Vehicle: Boxer 2.5TD	4	92.00	3.50 2.00 3.00	T CR NM P DSF CR	KG 1 LG 1 KG 1	18809203-00 18809203-07	STD + 0.50
In-line engine, diesel, 2.5l DJ5TED Vehicle: Boxer 2.5TD	4	92.00	3.50 2.00 3.50	T CR NM P DSF CR	KG 1 LG 1 KG 1	18809204-00 18809204-07	STD + 0.50
In-line engine, fuel, ZPJ, ZPJ4 Vehicle: XM 30, XM V6.24 Pallas	6	93.00	1.50 1.75 3.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	18809301-00	STD
In-line engine, diesel, 2.5l M25/648 Vehicle: J 5 Turbo D	4	93.00	3.00 2.00 4.00	T CR M P DSF CR	KG 1 LG 1 KG 1	18809302-00	STD
2.5l U25/673 Vehicle: J5 Turbo	4						
In-line engine, diesel, 2.5l U25 Vehicle: 5 1000,1300,35D,Fourgon	4	93.00	2.50 2.00 4.00	R CR R CR DSF CR	KG 1 KG 1 KG 1	18809303-00 18809303-07	STD + 0.50



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
PEUGEOT Cont.							
In-line engine, fuel, 2.5l U25/651 Vehicle: J5D, Van	4	93.00	2.00	R CR	KG 1	18809304-00 18809304-07	STD + 0.50
			2.00	M P	KG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2.3l XD 2, XD 94 Vehicle: 504, 505, J9 01/81	4	94.00	2.00	R CR	KG 1	18809401-00 18809401-06 18809401-08 18809401-11	STD + 0.40 + 0.60 + 1.00
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
2.5l XD 3 P Vehicle: 505, J9	4						
In-line engine, diesel, 2.3l XD2S(147) Vehicle: 505D,GRD,GLD,SRD,GTD Turbo,640D,J9	4	94.00	3.00	T CR	KG 1	18809402-00 18809402-06 18809402-08 18809402-11	STD + 0.40 + 0.60 + 1.00
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
2.5l XD 3 T/TE Vehicle: 604D,GTD,GRD Turbo,505 GTD,STD Turbo,505 GTD Break,Familiale	4						
In-line engine, diesel, 2.5l U25 / 651 / 661 Vehicle: J5 D	4	94.00	2.50	R CR	KG 1	18809403-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
RENAULT							
In-line engine, fuel, R4 - 4 CV Vehicle: R1120, 1122, 2102, 2105	4	54.50	2.00	R CR	KG 1	19005401-00	STD
			2.00	R P	LG 1		
			3.50	S P	LG 1		
In-line engine, fuel, R 4- 4 Cv R Vehicle: R1120, 1122, 2102, 2105	4	55.80	1.75	R CR	KG 1	19005501-00	STD
			2.00	M P	LG 1		
			3.50	DSF P	LG 1		



Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
RENAULT Cont.								
In-line engine, fuel, 845 cm ³ 800/10, 800/01/02/A 7 Vehicle: R 4, R 6/850, R 1123, R 2106	4	58.00	1.75	1.75	R CR	KG 1	19005801-00	STD
			2.00	2.00	M P	LG 1		
			3.50	3.50	DSF CR	KG 1		
In-line engine, diesel, 0.845l, R4, R6 Vehicle: MOT.670, R4-5CV, R5 EXPERT, R1123, 1124, 1130, 2104, 2106, R1180	4	58.00	2.00	2.00	R IF CR	KG 1	19005802-00	STD
			2.00	2.00	NM P	LG 1		
			3.50	3.50	DSF CR	KG 1		
		60.00	1.50	1.50	R IF CR	KG 1	19006001-00	STD
			1.50	1.50	M P	LG 1		
			3.00	3.00	GSF P	LG 1		
In-line engine, fuel, 956 cm ³ 689/10 Vehicle: R 5, R 1222, R 2382	4	65.00	1.75	1.75	R IF CR	KG 1	19006501-00	STD
			2.00	2.00	NM P	LG 1		
			3.50	3.50	DSF CR	KG 1		
In-line engine, fuel, 1.2l D7F Vehicle: Kangoo, Twingo, Clio	4	69.00	1.50	1.50	R IF CR	KG 1	19006900-00 19006900-07	STD + 0.50
			1.50	1.50	M P	LG 1		
			2.50	2.50	DSF CR	KG 1		
In-line engine, fuel, 1.2l D7F 16V, F4P Vehicle: Clio 1.2, Twingo 1.2, Modus 1.2	4	69.00	1.20	1.20	R CR	ST	19006901-00 19006901-07	STD + 0.50
			1.50	1.50	M P	LG 1		
			2.50	2.50	SLF CR	ST		
In-line engine, fuel, 1.1l, D7F, F4P Vehicle: Clio 1.2, Twingo 1.2, Modus 1.2, Kangoo 1.2	4	69.00	1.50	1.50	R IF CR	ST	19006902-00 19006902-07	STD + 0.50
			1.50	1.50	M P	LG 1		
			2.50	2.50	SLF CR	ST		
In-line engine, fuel, 1.1l 688/01/02/03/10/11/12/C 7/C 1 E 752/754/756/760/762/764/792 Vehicle: R 4, R 5, R 6, R 8, R 9, R 10 R 11, R 1132, R 1136, R 1181 R 2132, R 2134, R 2370 R 2420, R 2430, T 800, Express	4	70.00	1.75	1.75	R CR	KG 1	19007001-00 19007001-07	STD + 0.50
			2.00	2.00	NM P	LG 1		
			3.50	3.50	DSF CR	KG 1		

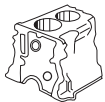

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
RENAULT Cont.								
In-line engine, fuel, 1.3l C1G Vehicle: R9/R11/R5	4	71.50	1.75 2.00 4.00	R IF CR M P DSF CR	KG 1 LG 1 KG 1	19007101-00 19007101-07	STD + 0.50	
In-line engine, fuel, 0.9l H4B.400 Vehicle: Captur, Clio IV	3	72.20	1.20 1.50 2.00	R NIT NM P SLF CR	ST LG 1 ST	19007201-00	STD	
1.0l, H4D.400 Vehicle: Twingo III	3							
1.2l, H5F Vehicle: Kangoo, Grand, Scenic Captur, Clio, Megane	4							
In-line engine, fuel, 1.3l 810/01/02/03/05/06/10/025/NM/ B 7/C 7/F 7 Vehicle: R 5, R 6, R 10, R 12, R 1192, R 1170, R 1171, R 1337, R 2126, R 2136, R 2137	4	73.00	1.75 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	19007301-00 19007301-05 19007301-07	STD + 0.25 + 0.50	
In-line engine, fuel, 1.3l 810 B7/C7/F7 Vehicle: R5, R10, R12, R15, Rodeo	4	73.00	1.75 2.00 4.00	R CR NM P SLF CR	KG 1 LG 1 ST	19007302-00	STD	
In-line engine, fuel, 1.3l C 3 G Vehicle: Twingo 1,2	4	74.00	1.50 1.75 3.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	19007401-00 19007401-07	STD + 0.50	
In-line engine, fuel, 1.3l, R8 Vehicle: Gordini 1300, R1135	4	74.50	1.75 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	19007402-00	STD	
In-line engine, fuel, 1.2l, C3G Vehicle: Clio, Express, Rapid, Twingo	4	74.00	1.75 1.75 3.00	R IF CR NM P SLF CR	KG 1 LG 1 ST	19007403-00	STD	

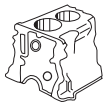

Make - Engine - Model	 No	 Ø mm.	Ring type	Material	Powerseal No	Size
RENAULT Cont.						
In-line engine, fuel, 1.2l E 5 F, E 7 F 708 Vehicle: Clio 1.4l E 6 J 728/734/738 R 7 J E 7 J 720/724/726/728/773 Vehicle: R 19, Clio 1.4, Kangoo, Express	4	75.80	1.50 1.75 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	19007501-00 19007501-05 19007501-07 STD + 0.25 + 0.50
In-line engine, fuel, GORDINI 1296	4	75.70	1.75 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	19007502-00 STD
In-line engine, fuel, 1.2l E 7 F Vehicle: Clio 1.2 1.4l E 6 J, R 7 J, E 7 J Vehicle: Clio, Express, Kangoo, R 19	4	75.80	1.50 1.75 3.00	R CR NM P SLF CR	KG 1 LG 1 ST	19007503-00 STD
In-line engine, fuel, 1.4l 840.26 Vehicle: R 5 Alpine Turbo	4	76.00	1.75 2.00 4.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	19007601-00 19007601-05 19007601-07 STD + 0.25 + 0.50
In-line engine, diesel, 1.5l K9KTD Vehicle: Clio dCi, Kangoo dCi, Megane dCi	4	76.00	2.00 2.00 2.50	R IF CR M IFU P DSF ST CR	KG 1 LG 1 ST	19007602-00 19007602-05 19007602-07 19007602-11 STD + 0.25 + 0.50 + 1.00
In-line engine, fuel, 1.4l 847 , C 1 J, C 16, J L 17, C 16, J L 17, C 2 J, C 3 J, J J 15 Vehicle: R 5, R 9, R 11, R 19	4	76.00	1.75 2.00 4.00	R IF CR P NM P SLF CR	KG 1 LG 1 ST	19007603-00 STD
In-line engine, diesel, 1.5l K9K Euro 6 Vehicle: Clio, Kangoo, Captur, Kadjar, Scenic, Talisman, Grand, Fluence	4	76.00	1.75 1.75 2.00	HK DLC M IFU P DSFST NIT	ST LG 1 ST	19007604-00 STD

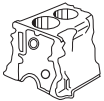

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
RENAULT Cont.								
In-line engine, fuel, 1.6l 807.01/02/03/04/05/0612/20, R 821.01/02/03/04 Vehicle: R 12, R 17, R 1313, R 1323, R 1173, R 15, R 1152, R 16, R 1153	4	77.00	1.75	R CR	KG 1	19007701-00 19007701-07	STD + 0.50	
			2.00	NM P	LG 1			
			4.00	DSF CR	KG 1			
		77.80	1.75	R CR	KG 1	19007702-00	STD	
			2.00	M P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine, diesel, 1.6l F 8 M 730/736/760 - D 720/730 F 8 M - A 700 Vehicle: R 5, R 9, R 11, Express	4	78.00	2.00	R CR	KG 1	19007801-00 19007801-07	STD + 0.50	
				2.00	M IF P			LG 1
				3.00	DSF CR			KG 1
In-line engine, fuel, 1.4l H4J 700 Vehicle: Scenic, Megane III, Grand	4	78.00	1.20	R IF CR	ST	19007802-00	STD	
				1.20	NM P			LG 1
				2.00	SLF CR			ST
In-line engine, fuel, 1.6l 841.01/05/25/26/C 7/D 7 843.20/21 Vehicle: R 18, Fuego, R 135, P 1000, R 16, Alpine A 31	4	79.00	1.75	R CR	KG 1	19007900-00 19007900-05 19007900-07	STD + 0.25 + 0.50	
				2.00	M P			LG 1
				4.00	DSF CR			KG 1
In-line engine, fuel, 1.4l K4J, K4M Vehicle: Clio, Megane, Megane Scenic	4	79.50	1.20	R CR	ST	19007901-00 19007901-07	STD + 0.50	
				1.50	NM P			LG 1
				2.50	DSF CR			KG 1
In-line engine, fuel, 1.6l K7M Vehicle: Kangoo, Megane Coupe, Clio	4	79.50	1.50	R CR	KG 1	19007902-00 19007902-07 19007902-11	STD + 0.50 + 1.00	
				1.50	NM P			LG 1
				2.50	DSF CR			KG 1

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
RENAULT Cont.							
In-line engine, fuel, 1.4l, K4 J Vehicle: Clio, Logan 1.4 MPI	4	79.50	1.50 1.50 2.50	R IF CR P NM P SLF CR	KG 1 LG 1 ST	19007903-00	STD
In-line engine, fuel, 1.6l, K4 M, K7 M Vehicle: Clio, Kangoo, Megane, Modus, Scenic 1.6, Logan 1.6 MPI							
In-line engine, fuel, 1.4l, 1.6l K4J, K4M Vehicle: Megane, Scenic, Logan	4	79.50	1.20 1.50 2.50	R IF CR P NM P SLF CR	ST LG 1 ST	19007904-00	STD
In-line engine, diesel, 1.9l F 8 Q 722/724/732/774/776, F 8 Q 742.C 7 Vehicle: R 19, R 21 Clio, Express, Kangoo	4	80.00	2.00 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	19008001-00 19008001-07 19008001-11	STD + 0.50 + 1.00
In-line engine, diesel, 1.6l, R 9 M Vehicle: Scenic, Megan, Fluence, Talisman, Kadjar, Escape, Trafic III	4	80.00	2.00 1.75 2.00	HK CR P M IFU P DSFST CR	ST LG 1 ST	19008002-00	STD
In-line engine, diesel, 1.9l F8Q Vehicle: R 19D,DX,RT , Megane RN,RT	4	80.00	2.50 2.00 3.00	T CR M P DSF CR	KG 1 LG 1 KG 1	19008003-00 19008003-07	STD + 0.50
In-line engine, diesel, 1.9l F9Q Vehicle: Laguna 1.9TDi,Megane 1.9TDi, Clio 1.9TDi,Kangoo 1.9TDi	4	80.00	2.50 2.00 3.00	R IF CR M IF P DSF CR	KG 1 LG 1 KG 1	19008004-00 19008004-07 19008004-11	STD + 0.50 + 1.00

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
RENAULT Cont.								
In-line engine, diesel, 1.6l R9M.402, 404 Vehicle: Scenic, Megane, Fluence	4	80.00	2.50	HK CR P	KG 1	19008005-00 19008005-07	STD + 0.50	
			2.00	M IFU P	LG 1			
			2.00	DSFST CR	ST			
In-line engine, fuel, 1.7l F 1 N 720/722 F 2 N Vehicle: R 9, R 11, R 21, Clio, Trafic	4	81.00	1.75	R CR	KG 1	19008100-00 19008100-07	STD + 0.50	
			2.00	M P	LG 1			
			3.00	DSF CR	KG 1			
In-line engine, fuel, 1.7l F 1 N 720/722 F 2 N 700/710/720/740/742/752/770 F 2 N A 700/704/ E 708 F 2 N C 710/732/742/753 F 3 N 702/718/740/741/742/746 F 3N C 722 F 3N J 702 59 - 80 kW (80 - 109 PS) Vehicle: R 9, R 11, R 21, Clio, Trafic	4	81.00	1.75	R CR	KG 1	19008101-00	STD	
			2.00	M P	LG 1			
			3.00	SLF CR	ST			
In-line engine, fuel, 1.8l F 3 P - 678 Vehicle: Clio, R 19, Laguna	4	82.70	1.50	R CR	KG 1	19008201-00 19008201-05 19008201-07	STD + 0.25 + 0.50	
			1.75	M P	LG 1			
			3.00	DSF CR	KG 1			
In-line engine, fuel, 1.8l F 7 P Vehicle: Clio, R 19	4	82.00	1.50	R CR	KG 1	19008202-00 19008202-07	STD + 0.50	
			1.50	M P	LG 1			
			3.00	DSF CR	KG 1			
In-line engine, fuel, 2.0l F7R-700 Vehicle: Clio Williams, Megane Coupe	4	82.70	1.20	R CR	ST	19008203-00 19008203-07	STD + 0.50	
			1.50	NM P	LG 1			
			2.50	DSF CR	KG 1			
In-line engine, fuel, 1.8l F4 R 720, 722, 760, 770, 771, 773 Vehicle: Scenic, Laguna, Megane	4	82.70	1.20	R CR	ST	19008204-00	STD	
			1.50	NM P	LG 1			
			2.00	SLF CR	ST			

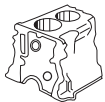

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
RENAULT Cont.							
In-line engine, fuel, 2.4l N7U Vehicle: Safrane	5	83.00	1.20 1.75 3.00	R CR M P DSF CR	ST LG 1 KG 1	19008301-00	STD
In-line engine, fuel, 2.0l N7Q 102 kW 139 PS Vehicle: Laguna, Safrane	4	83.00	1.20 1.50 2.50	R IF CR P NM P SLF CR	ST LG 1 ST	19008302-00	STD
In-line engine, diesel, 2.0l M9R, 700, 721, 722, 724, 740, 742, 744, 746, 748, 750 Vehicle: Escape, Laguna, Traffic, Megane, Scenic		84.00	2.50 2.00 2.00	HK CR M IFU P DSFST CR	KG 1 LG 1 ST	19008401-00 19008401-07	STD + 0.50
In-line engine, diesel, 2.3l M9 T Vehicle: Master	4	85.00	2.50 2.00 2.00	HK CR M IFU P DSFST CR	KG 1 LG 1 ST	19008501-00 19008501-07	STD + 0.50
In-line engine, diesel, 2.3l M9 T.700, 702, 706 Vehicle: Master III	4	85.00	2.00 1.75 2.00	HK CR M IFU CR DSFST CR	KG 1 KG 1 ST	19008502-00	STD
In-line engine, diesel, 2.3l M9T Vehicle: Master	4	85.00	2.50 2.00 2.00	HK CR M IFU CR DSFST CR	KG 1 KG 1 ST	19008503-00	STD
In-line engine, diesel, 2.1l 852 A 700, 852 B 710 852.720/750 J 8 S 330, J 8 S 704 Vehicle: R 18, R 20, R 21, R 25R 1344 R 1344, R 1354, R 2354, R 1275 Traffic P/T 313, P 323, T 423 PA 32, PA 93, T 800 D P/T 1000 D, P/T 1200 D P 1400 D, Master, Nevada	4	86.00	2.00 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	19008601-00 19008601-07	STD + 0.50

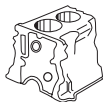

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
RENAULT Cont.							
In-line engine, diesel, 2.1l J 8 S 708/712/714 Vehicle: R 18 TD, R 20 TD, R 21 TD R 25 TD, R 30 TD, Fuego TD Espace TD,Nevada	4	86.00	2.50	T CR	KG 1	19008602-00 19008602-07	STD + 0.50
			2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 2.1l 852.02/850/J8S Vehicle: Cherokee BL 79 3E,Espace 2000 1,Fuego D Turbo,Jeep 4*4,CJ7,Master	4	86.00	2.50	T CR	KG 1	19008604-00 19008604-07	STD + 0.50
			2.50	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.1l J8S Vehicle: R18,R21,R25,Traffic 2.1D	4	86.00	2.25	R CR	KG 1	19008605-00 19008605-07	STD + 0.50
			2.00	M IF P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.2l G8T Vehicle: Laguna RN,RT,RXE	4	87.00	2.50	R CR	KG 1	19008701-00 19008701-07	STD + 0.50
			1.75	M IFU P	LG 1		
			2.50	DSF CR	KG 1		
In-line engine, diesel, 2.2l G8T Vehicle: Escape,Laguna,Safrane	4	87.00	3.50	T CR	KG 1	19008702-00 19008702-07	STD + 0.50
			1.75	M IFU P	LG 1		
			2.50	DSF CR	KG 1		
In-line engine, diesel, 2.2l G8T Vehicle: Escape,Laguna,Safrane	4	87.00	3.00	R IF CR	KG 1	19008703-00	STD
			1.75	NM P	LG 1		
			2.50	DSF CR	KG 1		
In-line engine, diesel, 2.2l G9T.700/2/10/12 G9T.722 Vehicle: Avantime, Espace, Laguna, Vel Satis, Master DCi	4	87.00	3.00	HK CR	KG 1	19008704-00 19008704-07	STD + 0.50
			1.75	M IFU P	LG 1		
			2.50	DSFST CR	ST		

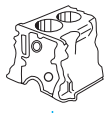

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						



RENAULT Cont.



In-line engine, diesel, 2.3l 6DE1 Vehicle: Escape, Vel Satis	6	87.00	2.50	R IF CR	KG 1	19008705-00	STD
			1.50	R CR	KG 1		
			3.00	DSFST CR	ST		
In-line engine, fuel, 2.0l 829 E 7, J 5R A 7, J 6 R 829.00/01/702 Vehicle: Trafic P 862, Minicar, P 1200, P 1400, R 18, Fuego, R 1363, R 20, R 135 300, R 25, Espace	4	88.00	1.75	R CR	KG 1	19008801-00	STD
			2.00	M P	LG 1		
			4.00	DSF CR	KG 1		
2.2l J 7 R, J 7 T 770/772/780/782 J 7 TV, J 7 TL 754, ZDJK Vehicle: R 25, R 21, Nevada, Espace, Trafic, Master 11/83	4	88.00	1.50	R IF CR	KG 1	19008802-00	STD
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, fuel, 2.2l J 7 R, J 6 T, J 7 T Vehicle: R21-R25, Safrane	4	88.00	1.50	R IF CR	KG 1	19008802-00	STD
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
RENAULT Cont.							
In-line engine, fuel, 2.7l, Z7V Vehicle: R25, R30 2.7 V6	V6	88.00	1.50 2.00 4.00	R CR P NM P DSF CR	KG 1 LG 1 KG 1	19008803-00	STD
In-line engine, diesel, 2.5l G9U.720 Vehicle: Master	4	89.00	2.50 1.75 2.50	R IF CR M IFU P DSF CR	KG 1 LG 1 KG 1	19008901-00 19008901-07	STD + 0.50
In-line engine, diesel, 2.5l G9U.720 G9U.730 Vehicle: Master T28 2.5dCi T33 2.5dCi	4	89.00	3.00 1.75 2.50	HK CR M IFU P DSF CR	KG 1 LG 1 KG 1	19008902-00 19008902-05 19008902-07	STD + 0.25 + 0.50
In-line engine, diesel, 2.5l 8140.47.2700, S 9U 714, 8140.21, 8144.21, 8140.07.3700 NA Euro 1 Vehicle: Master, Master, B90-35 D, Master, B90 3.5t	4	93.00	3.00 2.00 3.00	T CR NM P DSF CR	KG 1 LG 1 KG 1	19009301-00 19009301-06 19009301-07	STD + 0.40 + 0.50
In-line engine, fuel, 2.6l 817	4	93.00	2.00 2.00 4.50	R CR NM P DSF CR	KG 1 LG 1 KG 1	19009302-00	STD
In-line engine, diesel, 2.8l 8140.23.2585.Euro 2 Vehicle: B110, B110.45, Mascott 130	4	94.40	2.50 2.00 2.50	T CR M P DSF CR	KG 1 LG 1 KG 1	19009401-00 19009401-06	STD + 0.40

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
RENAULT RVI							
In-line engine, diesel, 2.3l 592	3	98.00	3.00	R CR	KG 1	19109801-00	STD
'In-line engine, diesel, 3.1l 591			3.00	M P	LG 1		
			3.00	NM P	LG 1		
	4		4.50	DSF CR	KG 1		
In-line engine, diesel, 3.3l 712-01/02/03/04/08 Vehicle: SG 4 SG 5, SM 4, D 5 T SG 2 MB 35, SG2 MB 38, SM 5 SG 4 DN/DL/DXL/DM SG 2 D 3800, SG 2 DM 3800 SG 2 D 3500, SG 2 DM 3500 Super Goelette, Super Galion	4	98.00	3.00	T CR	KG 1	19109802-00	STD
			2.50	M P	LG 1		
			4.50	DSF CR	KG 1		
In-line engine, diesel, 3.3l 712 1/2/3/4/6 Vehicle: SB 2,SD 4 T,SG 2 D,SG 3D,SG 4 DSG 5 SD 4 T,SM 5, TP 3 M	3	98.00	3.00	T CR	KG 1	19109803-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
	4		4.50	DSF CR	KG 1		
3.3l 714 Vehicle: SD4T,SG2 MB38 Fourgon,SG3,SG4,SG4 MB 59SG4 MB60,SM5,SG4T							
In-line engine, diesel, 6.9l 800 Vehicle: Crusair 2AV800,3AV800, PR100	6	100.00	2.50	R CR	KG 1	19110000-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 5.5l 798 Vehicle: SM 8-TU, JP 13 T, JR 1 JN 75, 13 BUL, JP 11, 130 150, 95130	6	102.00	3.00	T CR	KG 1	19110201-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 3.6l 720.01/02/03/08/12 Vehicle: SG 5, SG 5 C, SM 5 JK 60/ 65/ 75 90 B	4	102.00	3.00	T CR	KG 1	19110202-00	STD
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
RENAULT RVI Cont.									
In-line engine, diesel, 5.5l Vehicle: 150B11, Citerne,GF151D	6	102.00	3.00 2.50 4.00	T CR M P DSF CR	KG 1 LG 1 KG 1	19110203-00	STD		
In-line engine, diesel, 6.2l MIDR 602.026D Vehicle: G230, M230	6	102.00	3.50 2.50 4.00	T CR M CR DSF CR	KG 1 KG 1 KG 1			19110204-00	STD
In-line engine, diesel, 6.3l M420,MDX Vehicle: PR1,GBK 6,GBK 75,GLC M,L 62 M 3,MDX 16 M,24 M,44 M 3,46 M,26 M 9.5l M620Z3/MDZ 23 M Vehicle: GBC 8 MT,GCK 200/205 GLM, 10 M ,GLM 10 M,GLR 10 3,GRK 10 GR 205 7.9l MDU24/25/44-46 Vehicle: GBC 86*6,GBC 8 M 3 6*6 ,GBC 8 M 3 6*4,GBC 8 M,LE 520,620 PH 3 520 5.9l M/MD 420 30 Vehicle: 770K,KB,771K,KB600K,KB,620 K,KB,KBA,20T,20TA,30T,GAK 55,60,60C,70	4	120.00	3.25 3.00 3.00 6.00	T CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1				
In-line engine, diesel, 9.8l MIDR/MIDS 620.45 C 260.26,C 260.19 T,C 279 T,G 260,G 280 9.8l MIDR/MIPS 620.45 PR 100,PR 180,C 260,G 260,R 312,PR 100.2/180.2,PER 180.2,G 260.6 9.8l MIDR/MIDPR 620.45 FR 1,PR 180,C/G 290,G 320,R 330 Megabus,FR 1.T3,FR 1 GT,C 260.19	6	120.00	3.50 3.00 4.00	T CR R IF CR DSF CR	KG 1 KG 1 KG 1	19112002-00	STD		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
RENAULT RVI Cont.							
In-line engine, diesel, 8.8l MID/MIP 620 30 Vehicle: 950 KB 6/6A,950 KBT 6,G 45,PG 60,G 105,GBC 4*4,GLC 190,GR 191	6	120.00	3.25 3.00 4.00	T CR R IF CR DSF CR	KG 1 KG 1 KG 1	19112003-00	STD
In-line engine, diesel, 8.8l MIDS/MIPS 620 30 Vehicle: C 260 19 T,G 230 11,G 230 13/13AG 230 15 T,HE,GLR 230 4*4,PGC DSF	6	120.00	3.25 3.00 3.00 4.00	T CR R IF CR NM P DSF CR	KG 1 KG 1 LG 1 KG 1	19112004-00	STD
In-line engine, diesel, 11.2l MIDR 06.23.56.A3/A41/B41 Vehicle: Midium 1354, Premium 400	6	123.00	3.50 3.00 4.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	19112301-00	STD
In-line engine, Diesel, 11.1l MIDR 06.23.56.A3, MIDR06.23.56.A41, MIDR 06.23.56.B41 Vehicle: Midium 135, Premium 365, Premium 400, ARES 380, Iliade, Kerax 385 + 400	6	123.00	3.50 3.00 4.00	T CR M IF CR DSF CR	KG 1 KG 1 KG 1	19112302-00	STD
In-line engine, diesel 12.0l MIDR 0635 40G/H Vehicle: GR 305,GRH 305 TR 305,TRH 305,CBH 340,R 310 26 6*4,TB 305,Sonacame	6	135.00	3.50 3.00 4.00	T CR M IF CR DSF CR	KG 1 KG 1 KG 1	19113501-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

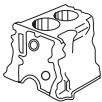

RENAULT RVI Cont.



In-line engine, diesel, 12.0l MS 635 T, MDS 635.40 M 635.40/40 A/40 C/40 E Vehicle: GBE 12, GBH 12, GLM 12, GPR12, PMH 12, TBE 12, TLM 12, GR 12, TF 12, TR 12, RF 12, PM 5, PM 6, GBH 6, GR 250, GLR 250, GPR 250, TR 250, TLR 250, GR 260, TBH 260, TR 260, TR 280	6	135.00	3.50 3.00 3.00 6.00	T CR M IF P M IF P DSF CR	KG 1 LG 1 LG 1 KG 1	19113502-00	STD
In-line engine, diesel, 12.0l MIDR 0635 40G/H Vehicle: GR 305,GRH 305 TR 305,TRH 305,CBH 340,R 310 26 6*4,TB 305,Sonacame	6	135.00	4.00 3.00 4.00	T CR M IF CR DSF CR P	KG 1 KG 1 KG 1	19113503-00	STD
In-line engine, diesel, 12.0l MIVS 835.30 Vehicle: GR 350,GRH,TR,TRH	6	135.00	3.50 3.00 3.00 4.00	T CR M IF P M IF P DSF CR	KG 1 LG 1 LG 1 KG 1	19113504-00	STD
In-line engine, diesel, 12.0l MIDR 0635 40G/H Vehicle: GR 305,GRH 305 TR 305 TRH 305,CBH 340,R 310 26 6*4,TB 305,Sonacame	6	135.00	3.50 3.00 6.00	T CR M IF CR DSF CRP	KG 1 KG 1 KG 1	19113505-00	STD
In-line engine, diesel, 12l MIVS 835.30 Vehicle: GR 350,GRH, TR, TRH	6	135.00	3.50 3.00 3.00 4.00	T CR M IF CR M IF CR DSF CRP	KG 1 KG 1 KG 1 KG 1	19113506-00	STD

ROBYN

14755EY15	63.00	1.90 1.95 2.80	R CR P	KG 1	19306301-00	STD
			M P	LG 1	19306301-05	+ 0.25
			DSF CRP	KG 1	19306301-07	+ 0.50
14111EY20	67.00	1.96 2.00 2.80	R IF CR P	KG 1	19306701-00	STD
			NM P	LG 1	19306701-05	+ 0.25
			DSF CRP	KG 1	19306701-07	+ 0.50

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
ROLLS ROYCE								
In-line engine, diesel, 12.1l C6T, Eagle Series	6	130.17	3.17	3.17	R CR	KG 1	19713001-00	STD
			3.17	3.17	R IF CR	KG 1		
			3.17	3.17	M IW P	LG 1		
16.2l C8T	8		6.33		DSF CR	KG 1		
ROVER								
In-line engine, fuel, 1.1l 14K Vehicle: 114, 214, 414	4	75.00	1.20	1.20	R CR	ST	19607501-00	STD
			1.50	1.50	M P	LG 1		
			3.00	3.00	DSF CR	KG 1		
1.4l 1/1995.....	4							
In-line engine, fuel, 1.2l 11K, 14K Vehicle: 111i, 114i	4	75.00	1.00	1.00	R CR	ST	19607504-00	STD
			1.20	1.20	NM P	KG 2		
			2.00	2.00	SLF CR	ST		
1.4l 1/1995--- Vehicle : Metro	4							
In-line engine, fuel, 1.6l 18 K-Serie Vehicle: 216i, 416i	4	80.00	1.00	1.00	R CR	ST	19608001-00	STD
			1.20	1.20	NM P	KG 2		
			2.00	2.00	SLF CR	ST		
2.0l 1/1995--- Vehicle : 218-220	6							
2.5l Vehicle : 45 + 75	6							
In-line engine, fuel, 2.5l 25K4F Vehicle: 825 SLi, Si, 825 I	6	80.00	1.20	1.20	R IF CR P	ST	19608002-00	STD
			1.50	1.50	NM P	LG 1		
			2.50	2.50	SLF CR	ST		

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
RUGGERINI								
In-line engine, diesel,		72.00	2.00	R IF CR P	KG 1	19507201-00	STD	
			2.00	M IF P	LG 1	19507201-07	+ 0.50	
			3.00	DSF CR P	KG 1	19507201-11	+ 1.00	
In-line engine, diesel, 337 ccm RD180/181 Vehicle: RD80,RD800,RF80	1	80.00	2.50	R CR	KG 1	19508001-00	STD	
			2.50	M IF P	LG 1	19508001-07	+ 0.50	
			4.00	DSF CR	KG 1	19508001-11	+ 1.00	
In-line engine, diesel, Vehicle: RF100	1	85.00	2.50	R CR P	KG 1	19508501-00	STD	
			2.50	M IF P	LG 1	19508501-07	+ 0.50	
			2.50	M IF P	LG 1	19508501-11	+ 1.00	
			5.00	DSF P	LG 1			
In-line engine, diesel, 477 ccm RF90 541 ccm RDM 901, RD/RM/RW 120, RD/RF/RM 90, RDM 902, RD/RW 220, RD 210 Vehicle: Acme ADN 54	1	90.00	2.00	R CR	KG 1	19509001-00	STD	
			2.00	M IF P	LG 1	19509001-07	+ 0.50	
			4.00	DSF CR	KG 1	19509001-11	+ 1.00	
	2							
In-line engine, diesel, RD 920	2	92.00	2.50	R CR	KG 1	19509201-00	STD	
			2.50	M IF P	LG 1	19509201-07	+ 0.50	
			2.50	NM P	LG 1	19509201-11	+ 1.00	
			5.00	DSF CR	KG 1			
In-line engine, diesel, 602cc 8.4/9.2/10 kw(11.5/12.5/13.6 PS) Vehicle: PUMP GENERATOR	2	95.00	2.50	R CR	KG 1	19509501-00	STD	
			2.50	M P	LG 1	19509501-07	+ 0.50	
			2.50	NM P	LG 1	19509501-11	+ 1.00	
			5.50	DSF CR	KG 1			
In-line engine, diesel, CRD 100 CRD 100/2	1	100.00	2.50	R CR	KG 1	19510001-00	STD	
			2.50	M P	KG 1	19510001-07	+ 0.50	
			2.50	NM P	LG 1	19510001-11	+ 1.00	
	2			5.00	DSF CR	KG 1		
In-line engine, diesel, RF 380	2	105.00	2.50	R CR	KG 1	19510501-00	STD	
			2.50	M IF P	LG 1			
			2.50	NM P	LG 1			
			5.00	DSF CR	KG 1			

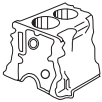

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					



SAAB



In-line engine, diesel, 2.0l, A20DTH, A20DTR Vehicle: 9-5 (YS3G) 2.0 TiD, 9-5 (YS3G) 2.0 TTiD 2.0l, A20DTR Vehicle: 9-5 (YS3G) 2.0 TTiD XWD	4	83.00	1.50	R CR P	KG 1	19908301-00	STD
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 2.0l, B 205 E Vehicle: 9000 2.2l, B 235 E, B 235 R Vehicle: 9000, 9-5 Turbo	4	90.00	1.50	R CR P	KG 1	19909001-00	STD
			1.50	NM P	LG 1		
			2.50	SLF CR	ST		
In-line engine, diesel 2.0l, B204, 206 2.3l, B234 9000 Turbo	4	90.00	1.75	R IW CR P	KG 1	19909002-00	STD
			2.00	NM P	LG 1		
			3.00	SLF CR	ST		



SAME



In-line engine, diesel, 952, 954 Vehicle: Traktor, Sametto, Atlanta 45, Centauro	4	95.00	2.50	R CR P	KG 1	20009501-00	STD
			2.50	M IF P	LG 1		
			2.50	NM P	LG 1		
			5.50	DSF P	LG 1		
			5.50	S P	LG 1		
In-line engine, diesel, 1.8l 982,982/034 Vehicle: Delfino 35,Sirenetta	4	98.00	2.50	R CR	KG 1	20009801-00	STD
			2.50	M P	LG 1		
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
2.7l DA983 Vehicle: Aurora,Falcon,Minitauro 60 (I-II Serie),Solar 50-60	4						
3.6l 984.L.984-036 Vehicle: Corsaro,70,Saturno,80	4						
4.5l 985/041 Panther	5						
5.5l 986 Vehicle: Drago,Buffalo	6						




Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
SAME Cont.								
In-line engine, diesel, 2.9l 1003 P 3.8l 1004 P 5.7l 1006 P	3	100.00	2.50	R IF CR P	KG 1	20010001-00	STD	
			2.50	M P	LG 1			
			2.50	NM P	LG 1			
			5.00	DSF CR P	KG 1			
In-line engine, diesel, 916A , X1M	3	103.00	3.00	R CR P	KG 1	20010301-00 20010301-07	STD + 0.50	
			3.00	M IF P	LG 1			
			4.00	DSF CR P	KG 1			
In-line engine, diesel, 3.1l 1053 P Vehicle: Taurus 60, Vigneron 60 4.2l 1054 P Vehicle: Centurioń 75, Mercury 85 5.2l 1055 P Vehicle: Jaguar 100E 6.2l 1056 P Vehicle: Drago 120, Trident 130	3	105.00	2.50	R CR	KG 1	20010501-00 20010501-07 20010501-11	STD + 0.50 + 1.00	
			2.50	M P	LG 1			
			2.50	NM P	LG 1			
			5.00	DSF CR	KG 1			
	4							
	5							
	6							
	In-line engine, diesel, 12.1l 1000.3 AT 1000.4AT, 1000.6 AT Vehicle: Traktor, Gamma Media	6	105.00	3.00	R IW CR	KG 1	20010502-00 20010502-07 20010502-11	STD + 0.50 + 1.00
				2.50	M P	LG 1		
				4.00	DSF CR	KG 1		
In-line engine, diesel, 1000.3 WT/AT/W/A, 1000.4 WT/AT/W/A, 1000.6 WT/AT/A Vehicle: Traktor	3	105.00	3.00	T CR	KG 1	20010503-00 20010503-07 20010503-11	STD + 0.50 + 1.00	
			2.50	R IF CR	KG 1			
	4		4.00	DSF CR	KG 1			
	6							
In-line engine, diesel, 4.2l 105.4 PT Vehicle: Leopard, Buffalo 6.2l 105.6 PT	4	105.00	2.50	R CR	KG 1	20010504-00 20010504-07 20010504-11	STD + 0.50 + 1.00	
			2.50	NM P	LG 1			
			5.00	DSF CR	KG 1			
	6							
In-line engine, diesel, 1000.3 WT/AT/W/A, 1000.4 WT/AT/W/A, 1000.6 WT/AT/A	3	105.00	3.00	R IW CR	KG 1	20010505-00 20010505-07	STD + 0.50	
	4		2.50	R IF CR	KG 1			
			4.00	DSF CR	KG 1			
	6							

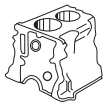

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
SCANIA								
In-line engine, diesel, 7.2l D5, D7 Vehicle: L80, LB80, L81, LB81, L85, LB85, LBS85, L86, LB86, LS86 Ser	6	115.00	3.00	R CR	KG 1	20411501-00	STD	
			3.00	M P	LG 1			
			3.00	NM P	LG 1			
			6.00	DSF CR	KG 1			
			6.00	S P	LG 1			
In-line engine, diesel, 7.8l D8 Vehicle: L80, LB80, L81, LB81, L85, LB85, LBS85, L86, LB86, LS86 Ser	6	115.00	2.38	R CR	KG 1	20411502-00	STD	
			2.38	M IW P	LG 1			
			2.38	M IW P	LG 1			
			4.74	DSF CR	KG 1			
In-line engine, diesel, 8.5l DS 9.01/02/04/05/06/08 DSC 9.01/02/07/08/09 DSC 9.40/41/42/44 Vehicle: Type 93, 82, 92 D 92, P 92, R 92, T 92	6	115.00	3.16	T IW CR	KG 1	20411503-00	STD	
			2.38	M IW P	LG 1			
			4.74	DSF CR	KG 1			
In-line engine, diesel, 7.8l DN 8 01, DSJ 8 01 DS 8 01/05/06 8.7l DN 9 01 Vehicle: Serie 92	6	115.00	2.38	R CR	KG 1	20411504-00	STD	
			2.38	M IW P	LG 1			
			4.74	DSF CR	KG 1			
	6							
In-line engine, diesel, 8.5l DC9, DSC9, DSI9 Vehicle: 82,92	6	115.00	3.17	T IW CR	KG 1	20411505-00	STD	
			2.38	M IW P	LG 1			
			3.50	DSF CR	KG 1			
In-line engine, diesel, 11.0l D 11, DN 11.01, DS 11.01 DS 11.01/02/14/15/18 L05 DSC 11.01/02/04/11 Vehicle: L/LB/LS/LT/LBS/LBT 111 S LT/LBT 111 BB, LBT 111 FB SBAT 111, T 112 H/E, G 112 M K 112, R 112/M/MA/H/E, B 116 P 112 M/MA/H/E	6	127.00	2.38	R CR	KG 1	20412701-00	STD	
			2.38	M IW P	LG 1			
			4.74	DSF CR	KG 1			



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
SCANIA Cont.							
V-type engine, diesel, 14.2l DS 14, DS 14.01/02/06 DSI 14, DSC 14.01/02 Vehicle: 141, 442, L/LB/LS/LBS	8	127.00	3.16 2.38 4.74	T IW CR M IW P DSF CR	KG 1 LG 1 KG 1	20412702-00	STD
V-type engine, diesel, 11.0l DS11 Vehicle: L76, L/LS/LB	8	127.00	2.38 2.38 2.38 6.33	R CR M IW P M IW P DSF CR	KG 1 LG 1 LG 1 KG 1	20412703-00	STD
V-type engine, diesel, 11.0l D11, R14, DS11, DS14 Vehicle: L/LB/LS/LBS/LBT	8	127.00	2.38 2.38 2.38 4.74	R CR M IW P M IW P DSF CR	KG 1 LG 1 LG 1 KG 1	20412704-00	STD
In-line engine, diesel, 11.0l DS 11 DS 11.75 DS 11.34/73 DSC 11 DSC 11 Euro 2 DSC 11.01/12/13/16/17/18 /21/22/23/35/36/70	6	127.00	3.50 2.38 4.74	T IW CR M IW P DSF CR	KG 1 LG 1 KG 1	20412705-00	STD
V-type engine, diesel, 14.2l DS 14 Case DS 14.05/06/46/47/48/49/50 DSC 14 J DSC 14.03/04/08/09/10/16/45/46 DSI 14.47/50/60/61/63/77 14180 cm ³	8						
In-line engine, diesel, 11.0l DS11 Vehicle: Traktor Case, Land	6	127.00	3.16 2.38 2.38 4.76	T IW CR M IW P M IW P DSF CR	KG 1 LG 1 LG 1 KG 1	20412706-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
SCANIA Cont.								
In-line engine, diesel, 11.0l DSC11-12/13/17/18 Vehicle: 113 Bus, R 113 H	6	127.00	3.50	T IW CR	KG 1	20412707-00	STD	
			2.38	M IW P	LG 1			
			3.50	DSF CR	KG 1			
In-line engine, diesel, 10.3l, D10, DS10 Vehicle: LA 75, LS 75, LT 75	6	127.00	3.17	R CR	KG 1	20412708-00	STD	
			3.17	M P	LG 1			
			3.17	M P	LG 1			
			6.35	DSF CR	KG 1			
			6.35	G P	LG 1			
In-line engine, diesel, 8867 ccm DC 9.11, DC 9.18 Vehicle: P 310, G 310, R 310 11716 ccm DC, DT Vehicle: P 420, R 420. G 420, R 470, P 470, R 480, G 480, P 480	5	127.00	3.50	T IW CR	KG 1	20412709-00	STD	
			2.38	M CR	KG 1			
			3.50	DSF CR	KG 1			
	6							
In-line engine, diesel, 13.0l, DC13~ Vehicle: Irizar, Serie P, G, R, T G 360, 400, 440, 480	6	130.00	3.50	T IF CR	KG 1	20413001-00	STD	
			3.00	M IWU CR	KG 1			
			4.00	DSFST CR	ST			
In-line engine, diesel, 9.3l, DC09 Euro 5, 6 Vehicle: F, G, N, R Series, Omniexpress	5	130.00	3.50	T IF CR P	KG 1	20413002-00	STD	
			3.00	M IFU P	LG 1			
			4.00	DSFST CR	ST			
In-line engine, diesel, 12.7l, DC13 Euro 5, 6 Vehicle: P, G, R, T Series, Metrolink	6							



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
SEAT							
In-line engine, fuel, 1.2l 021C1000 Vehicle: Cordoba 1.2,Ibiza GL 1.2, Malaga GL 1.2,Ronda GL 1.2	4	75.00	1.50 1.75 4.00	R CR M P DSF CR	KG 1 LG 1 KG 1	20107501-00	STD
In-line engine, fuel, 1.3l AAV, 2G Vehicle: Ibiza 1.3i	4	75.00	1.75 2.00 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	20107502-00	STD
In-line engine, diesel, 1.9l 1Z Vehicle: Cordoba 1.9 D, Cordoba 1.9 D., Ibiza Mk II 1.9 D, Ibiza Mk II 1.9 D, Toledo 1.9 D, Toledo 1.9 D, Toledo 1.9 SDI	4	79.50	1.75 2.00 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	20107901-00	STD
1.9l AAZ, AEF Vehicle: Cordoba 1.9 TD, Ibiza Mk II 1.9 TD Toledo 1.9 TD	4						
In-line engine, fuel, 1.6l 1F Vehicle: Cordoba 1.6 l, Cordoba Hatchback 1.6 SXE, Cordoba Vario 1.6 l, Ibiza Mk II 1.6 l, Inca 1.6 l, Toledo 1.6 i, Toledo 1.6 l, Toledo 1.6 i	4	81.00	1.50 1.75 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	20108101-00	STD
1.8l RP Vehicle: Toledo 1.8	4						
In-line engine, fuel, 2.0l. ABK, AAD Vehicle: Toledo, Ibiza	4	82.50	1.20 1.50 2.00	R CR M IF P SLF CR	ST LG 1 ST	20108201-00	STD
In-line engine, fuel, 1.5l 021A2000 Vehicle: Ronda 1.5 5SX,Malaga 1.5GLX,iBiZA	4	83.00	1.50 1.75 4.00	R CR M P DSF CR	KG 1 LG 1 KG 1	20508301-00	STD

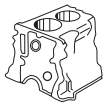

Make - Engine - Model	 No	 Ø mm.	Ring type	Material	Powerseal No	Size
SHIBAURA						
Please see  BORA						
SKODA						
In-line engine, fuel, 1.2l Vehicle: 120	4	72.00	2.00 2.00 2.00 4.00	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	20807201-00 STD
In-line engine, fuel, 1.2l 1200 MB Vehicle: 120	4	72.00	2.00 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	20807202-00 STD
In-line engine, fuel, 1.2l 1200,1201,1203,440 Vehicle: Octaiva,1202 Combi,1203,1200	4	72.00	2.50 2.50 2.50 4.00	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	20807203-00 STD
In-line engine, fuel, 1.2l Vehicle: 1200	4	72.00	2.00 2.50 2.50 4.00	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	20807204-00 STD
In-line engine, fuel, 1.3l 135M Vehicle: Rapid,Favorit	4	75.50	1.50 1.50 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	20807501-00 STD
STEYR						
In-line engine, diesel, 2.7l 288, WD 406	4	92.00	2.50 2.50 2.50 5.00	R CR M IF P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	21009201-00 STD
In-line engine, diesel, 2.6l 306A,406-01	4	98.00	2.50 2.50 2.50 5.00	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	21009801-00 STD

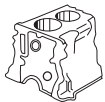

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
STEYR Cont.							
In-line engine, diesel, 2.4l WD308.40/41/45 Vehicle: 540/A,545/A,548	3	100.00	2.50	R CR	KG 1	21010001-00	STD
			2.50	M P	LG 1		
3.1l WD408.40/41/42/43 Vehicle: 650/A,658,768,760/A,540	4		2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 2.6l WD 311.40/41 Vehicle: TRACTOR 8060	4	100.00	2.50	R CR	KG 1	21010002-00	STD
			2.50	M P	LG 1		
V-type engine, diesel, 3.5l WD411.41/42 Vehicle: TRACTOR 8070	4		4.00	DSF CR	KG 1		
In-line engine, diesel, 2.6l 308-46,308-47-3 TRACTOR 8053,8050S	3	100.00	2.50	R CR P	KG 1	21010003-00	STD
			2.50	M P	LG 1		
V-type engine, diesel, 3.1l 408,45-4 TACTOR 8073S	4		2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 3.5l WD 411.45/46, WD411.85/86 Vehicle: Tractor 8080+8100	3	100.00	2.50	T CR	KG 1	21010004-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l WD 210.40 Vehicle: TRACTOR 430b	2	105.00	3.00	T CR P	KG 1	21010501-00	STD
			2.50	M P	LG 1		
V-type engine, diesel, 3.9l WD411.41/42 WD410 Vehicle: TACTOR 870a	4		2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
			5.00	D P	LG 1		

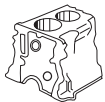

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
STEYR Cont.							
In-line engine, diesel, 2.0l WD 209 188 6.0l WD 609 e/f/g/h/Stamo609 S Vehicle: 586,680,780 c,890	2	105.00	2.50 2.50 2.50 5.00 5.00	R CR P M P NM P DSF CR D P	KG 1 LG 1 LG 1 KG 1 LG 1	21010502-00	STD
In-line engine, diesel, 2.0l, WD210.40 Vehicle: 430b	2	105.00	3.50 2.50 2.50 5.00 5.00	T CR P M P NM P DSF CR D P	KG 1 LG 1 LG 1 KG 1 LG 1		
4.0l, WD410.40 Vehicle: 870a	4						
6.0l, WD610.18/19/20, WD610.40/42/43/44/50 Vehicle: 586, 590.110, 680, 690.110, 690.132, 790.132, 890.132 430, 870, 1090, 1100, 1100 S, 1108, 1300, 590, 690	6						
In-line engine, diesel, 6.6l WD 612.63-612.65 Vehicle: 980, 988, 1200, 8140	6	108.00	3.00 2.50 4.00	T CR NM P DSF CR	KG 1 LG 1 KG 1	21010801-00	STD
In-line engine, diesel, 4.0l WD 313 G 5.3l WD413T/U Vehicle: 80/84/86/180/180A 180N/182A	3	110.00	3.00 3.00 3.00 6.00 6.00	R CR M P NM P DSF CR D P	KG 1 LG 1 LG 1 KG 1 LG 1		
In-line engine, diesel, 9.7l WD 615 Vehicle: 1291, 1491, 1891 12.0l WD 815 Vehicle: 1291, 1491, 1891	6	126.00	3.50 3.00 4.00	T IF CR M IFU CR DSF CR	KG 1 KG 1 KG 1	21012601-00	STD
	8						

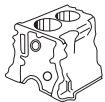

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
SUBARU							
In-line engine, fuel, EJ154 Vehicle: Impreza	4	77.70	1.20	R IF CR P	ST	20707701-00 20707701-05 20707701-07	STD
			1.20	NM P	LG 2		+ 0.25
			2.00	SLF CR	ST		+ 0.50
In-line engine, diesel, 69H Vehicle: EJ 201, 204, 206, 208, 207	4	92.00	1.20	R CR P	ST	20709201-00	STD
			1.20	NM P	LG 2		
			2.50	SLF CR P	ST		
In-line engine, fuel, 3.7l 21Z, EZ36 Vehicle: Outback	4	92.00	1.20	R CR	KG 1	20709202-00	STD
			1.20	NM P	LG 1		
			2.00	SLF CR	ST		
SUPERSTAR							
In-line engine, diesel, 0.7l, 1.5l 77,12,77,16 1.5l	1	98.48	2.38	R CR P	KG 1	20909801-00	STD
			2.38	M P	LG 1		
			2.38	NM P	LG 1		
			6.33	DSF CRP	KG 1		
	2	6.33	D P	LG 1			
SUZUKI							
In-line engine, fuel, 1.0l F10A Vehicle: Jimmy, Alut SJ410	4	65.50	1.50	R IF CR	KG 1	20606501-00 20606501-07 20606501-11	STD
			1.50	M P	LG 1		+ 0.50
			2.80	DSF P	LG 1		+ 1.00
In-line engine, fuel, 0.7l F6A-N Vehicle: Alto	3	65.00	1.00	R CR P	ST	20606502-00	STD
			1.20	NM P	LG 1		
			2.00	SLF CR P	ST		
In-line engine, fuel, 1.3l G13, G13B Vehicle: Swift, Cultus	4	74.00	1.20	R CR	ST	20607401-00 20607401-07 20607401-11	STD
			1.50	NM P	LG 1		+ 0.50
			2.80	DSF P	LG 1		+ 1.00
In-line engine, fuel, 1.3l G13, G13B Vehicle: Swift, Cultus	4	74.00	1.20	R CR	ST	20607402-00 20607402-07	STD
			1.50	NM P	LG 1		+ 0.50
			2.80	SLF CR	ST		

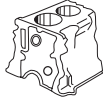

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
SUZUKI Cont.							
In-line engine, fuel, SR413, G13BA Vehicle: Swift 1	3	74.00	1.20	R CR	ST	20607403-00	STD
			1.20	NM P	LG 2		
			2.50	SLF CR	ST		
In-line engine, fuel, 1.3l, G10, G13, A, Vehicle: Swift, Y58	4						
In-line engine, diesel, 1.8l J18 2.0l J20A 2.5l H25A Vehicle: Escudo, Vitara, Grand Vitara, Titan T51 Mustang	4	84.00	1.20	R CR	ST	20608401-00	STD
			1.50	NM P	LG 1		
			2.50	SLF CR	ST		
In-line engine, fuel, J20B Vehicle: SX-4	4	84.00	1.20	R IF CR	ST	20608402-00	STD
			1.20	NM P	LG 1		
			2.50	SLF CR P	ST		
TATA							
In-line engine, diesel, 1.4l 475 IDITCIC Euro3, 475 I TCIC Euro3, 475 I TCIC Euro3 Vehicle: Indigo, Marina	4	75.00	2.50	T CR P	KG 1	21207501-00	STD
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.0l, Pickup Telcoline	4	83.00	2.50	T CR	KG 1	21208301-00	STD
			2.00	M P	LG 1	21208301-07	+ 0.50
			3.00	DSF CR	KG 1		
In-line engine, diesel, 2.2l DW12DD Vehicle: Xenon XT SUV	4	85.00	2.50	T CR P	KG 1	21208501-00	STD
			2.00	M P	LG 1		
			3.00	DSF CR	KG 1		
TATRA							
In-line engine, diesel, 15.8l V8/V10/V12 Vehicle: T3-928-929-930 T 815.	10	120.00	3.50	T CR	KG 1	21112001-00	STD
			3.00	M IF P	LG 1		
			5.00	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
TOYOTA							
In-line engine, fuel, 1.0l 1E-L Vehicle: Starlet	4	70.50	1.50 1.50 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	21407001-00	STD
In-line engine, fuel, 1.3l, 1NR-FE Vehicle: Auris 1.3, Corolla 1.33, IQ 1.33, Yaris 1.3	4	72.50	1.00 1.00 1.50	R CR P R P SLF CR	ST ST ST	21407201-00 21407201-07	STD + 0.50
In-line engine, fuel, 1.2l, 3NR Vehicle: Etios Liva	4	72.50	1.00 1.00 2.00	R CR NM P SLF CR	ST ST ST	21407202-00	STD
In-line engine, fuel, 1.3l 2E-L, 2E-LU Vehicle: Corona 1300, Starlet	4	73.00	1.50 1.50 3.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	21407301-00 21407301-07	STD + 0.50
1.5l 3E Vehicle: Starlet	4						
In-line engine, fuel, 1.3l, 2E-L, LU gasoline Vehicle: Corona 1300, Starlet	4	73.00	1.50 1.50 3.00	R CR P M IF P SLF CR	KG 1 LG 1 ST	21407302-00 21407302-07	STD + 0.50
In-line engine, diesel, 1.4l 1ND-TV Vehicle: Corolla, IQ, Probox, Yaris	4	73.00	1.50 1.50 3.00	R CR R CR DSFSTCR	KG 1 LG 1 ST	21407303-00	STD
In-line engine, fuel, 1.3l, 4E - FE Vehicle: Corolla	4	74.00	1.20 1.20 3.00	R CR P M IF P SLF CR	ST KG 2 ST	21407401-00 21407401-05 21407401-07	STD + 0.25 + 0.50
In-line engine, fuel, 1.3l 4K-E 2.0l 1G - 1GE Vehicle : Soarer, Crown, Mark II Chaset, Cresta, Celica	4 6	75.00	1.50 1.50 4.00	R CR M P DSF CR P	KG 1 LG 1 KG 1	21407501-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
TOYOTA Cont.							
In-line engine, diesel, 1.6l, 4D Vehicle: Proace Box	4	75.00	2.50 1.95 2.00	T CR P NM P DSFST CR	KG 1 LG 1 ST	21407502-00	STD
In-line engine, fuel, 1.3l 2NZ-FE, 1.5l 1NZ-FE Vehicle: Vitz, Ist, Porte, Corolla, Funcargo	4	75.00	1.20 1.20 2.00	R CR NM P SLF CR	ST LG 1 ST	21407503-00	STD
In-line engine, fuel, 1.3l 2 A Vehicle: Tercel 1300	4	76.00	2.00 2.00 4.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	21407601-00 21407601-07	STD + 0.50
In-line engine, fuel, 1.5l 5 A Vehicle: Corolla	4	78.70	1.20 1.50 3.00	R CR P M P SLF CR	ST LG 1 ST	21407801-00 21407801-05 21407801-07	STD + 0.25 + 0.50
In-line engine, fuel, 1.8l. 1ZZ , 1ZZ-FE Vehicle: Corolla, Vista	4	79.00	1.20 1.20 3.00	R CR NM P SLF CR	ST LG 2 ST	21407902-00 21407902-07 21407902-11	STD + 0.50 + 1.00
In-line engine, fuel, 1.8l 1S-U Vehicle: Carina Celica Mark II Chaser Cresta	4	80.50	1.50 1.50 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	21408001-00	STD
In-line engine, fuel, 1.6l, 1.8l, 1,2,3ZR Vehicle: Auris, Avensis, Corolla, Premio, Verso, Yaris	4	80.50	1.00 1.00 1.50	R IF CR R CR P DSFST CR P	ST ST ST	21408002-00	STD
In-line engine, fuel, 1.6l 4A-L, 4A-LC Vehicle: Sprinter Trueno	4	81.00	1.50 1.50 2.80	R CR M IF P DSF CR	KG 1 LG 1 KG 1	21408101-00 21408101-07	STD + 0.50

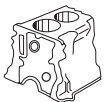

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
TOYOTA Cont.								
In-line engine, fuel, 1.6l, 4A-G Gasoline Vehicle: Corolla	4	81.00	1.20	1.20	R IF CR P	ST	21408102-00 21408102-05 21408102-07	STD + 0.25 + 0.50
			1.50	1.50	NM P	LG 1		
			3.00	3.00	SLF CR	ST		
In-line engine, fuel, 1.6l 4A-FE Vehicle: Corolla	4	81.00	1.50	1.50	R CR P	ST	21408103-00 21408103-07	STD + 0.50
			1.50	1.50	NM P	LG 1		
			3.00	3.00	SLF CR	ST		
In-line engine, diesel, 2.0l. 2C Vehicle: Toyo-Ace, Vagon, Daihatsu Delta	4	86.00	2.00	2.00	R CR	KG 1	21408601-00	STD
			2.00	2.00	M IW CR	KG 1		
			4.00	4.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l. 3 S - Fe Vehicle: Vista Carina Camry, Corona	4	86.00	1.50	1.50	R CR	KG 1	21408602-00	STD
			1.50	1.50	M P	LG 1		
			4.00	4.00	DSF CR	KG 1		
In-line engine, fuel, 2.0l, 3S-FE, 1 TR Vehicle: RAV4	4	86.00	1.20	1.20	R IF CR P	ST	21408603-00	STD
			1.20	1.20	NM IF P	LG 2		
			2.00	2.00	SLF CR	ST		
In-line engine, diesel, 2.5l, 1-2 DZ	4	86.00	2.00	2.00	HK CR	ST	21408604-00 21408604-07	STD + 0.50
			2.00	2.00	M CR	KG 1		
			3.00	3.00	DSFST CR	ST		
In-line engine, fuel, 2AD, AD	4	86.00	2.00	2.00	R CR	KG 1	21408605-00	STD
			1.50	1.50	NM P	LG 1		
			2.00	2.00	DSFST CR	ST		
In-line engine, fuel, 2.0L, 3S-G Vehicle: Celica, Caldina, MR2, Camry, Vista	4	86.00	1.20	1.20	R IF CR P	ST	21408606-00	STD
			1.50	1.50	M P	LG 1		
			4.00	4.00	DSF CR	KG 1		

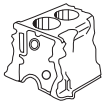

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
TOYOTA Cont.								
In-line engine, diesel, 2.0L, 1AD Vehicle: RAV4, Corolla, Auris, Avensis	4	86.00	2.00 1.50 3.00	R CR P NM P DSFST CR	KG 1 LG 1 ST	21408607-00	STD	
2.2l 2AD Vehicle: RAV4, Avensis, Verso, Corolla								
In-line engine, fuel, 1.6L, 2T Vehicle: Corona	4	86.00	1.20 1.20 2.00	R CR M P DSFST CR	ST LG 1 ST	21408608-00 21408608-07	STD + 0.50	
1.8l 3T Corona, Camry, Celica								
In-line engine, diesel, 4.5L, 1VD-FTV Euro 4 Vehicle: Land Cruiser	8	86.00	2.00 1.50 2.00	R CR M P DSFST CR	ST ST ST	21408609-00	STD	
In-line engine, fuel, 2.4L, 2AZ-FE Vehicle: Camry, Ipsam, Estima, Rav4, Harrier, Kluger, Alphard	4	88.50	1.20 1.20 2.00	R CR NM P SLF CR	ST LG 1 ST	21408801-00	STD	
In-line engine, fuel, 1.8l, 16R 2.0l, 18R, 19R 2.2l, 20R Vehicle: Corona, Corona Mark II, Cressida, Carina, Hi-Lux, Hi-Ace, Celica2000GT,RA40, Coaster RB11,12	4	88.50	2.00 2.50 4.00	R CR M P SLF CR	KG 1 LG 1 ST	21408802-00 21408802-00	STD + 0.50	
In-line engine, diesel, 2.4l 2L-T, 2L-TE diesel Vehicle: Crown Chaser Corona Mark II	4	92.00	2.00 2.00 4.00	HK CRP R IF CRP DSF CRP	ST KG 1 KG 1	21409201-00 21409201-07	STD + 0.50	



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
TOYOTA Cont.							
In-line engine, diesel, 2.5l, 2L - T, -TE Vehicle: Crown, Chaser, Corona Mark II	4	92.00	2.00 2.00 4.00	HK CRP R IF CRP DSFST CR	ST KG 1 ST	21409202-00	STD
In-line engine, fuel, 2.4l, 22R Vehicle: Coaster, Celica, Corona, Hi-Lux, Hi-Ace, Land Cruiser	4	92.00	1.50 1.50 4.00	R CRP NM P DSF CR P	KG 1 LG 1 KG 1	21409203-00	STD
In-line engine, fuel, 2.4l, 22R Vehicle: Coaster, Celica, Corona, Hi-Lux, Hi-Ace, Land Cruiser	4	92.00	2.00 2.50 4.00	R CR M P DSF CR P	KG 1 LG 1 KG 1	21409204-00	STD
In-line engine, fuel, 3.4l, 5VZ-FE Vehicle: Land Cruiser, Hi-Lux Surf, Hi-Ace, Granvia	6	93.50	1.50 1.50 4.00	R NIT M P SLF NIT	ST LG 1 ST	21409301-00 21409301-05 21409301-07	STD + 0.25 + 0.50
In-line engine, diesel, 2.7l B Vehicle: Hino Ranger,Dyna ,Landcruiser	4	95.00	2.50 2.50 2.50 4.50	HK IFU CR R CR NM P DSF CR	KG 1 KG 1 LG 1 KG 1	21409501-00	STD
In-line engine, diesel, 3.0l B Vehicle: Coaster Bus BU19,Dyna BU10,12,15,20,22,30,35,70, Landcruiser 3000	6	95.00	2.50 2.50 4.50	HK IFU CR M P DSF CR P	KG 1 LG 1 KG 1	21409502-00	STD
In-line engine, fuel, 2.7l 2TR-FE Vehicle: Land Cruiser, Hi-Lux Surf, Hi-Ace, Prado	4	95.00	1.20 1.20 2.00	R NIT N P DSFST CR	ST LG 1 ST	21409503-00 21409503-07	STD + 0.50
In-line engine, fuel, 2.7l 3RZ-FE Vehicle: (Land Cruiser, Hi-Lux Surf, Toyo Ace, Prado, Granvia	4	95.00	1.50 1.50 4.00	R CR NM CR SLFCR	KG 1 KG 1 ST	21409504-00	STD

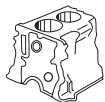

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
TOYOTA Cont.							
In-line engine,diesel, 2.8l 3L Vehicle: Hiace, Hilux, Toyo-Ace	6	96.00	2.00	HK CR P	ST	21409601-00 21409601-07	STD + 0.50
			2.00	N CR P	LG 1		
			4.00	DSFST CR	ST		
In-line engine,diesel, 3.0l 1KD-FTV Vehicle: Land Cruiser, Hi-Lux Surf, Hi-Ace	4	96.00	2.00	HK CR	ST	21409602-00	STD
			1.50	M CR	KG 1		
			3.00	DSFST CR	ST		
URSUS							
In-line engine, diesel, 6.8l Z8701.1 Vehicle : 1222, 1224	6	110.00	3.00	R CR	KG 1	21911001-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			6.00	DSF CR	KG 1		
UTB							
In-line engine, diesel, 2.3l 45 CV Vehicle: U 445/A/B	3	95.00	2.50	R CR	KG 1	21809500-00	STD
			2.50	NM P	LG 1		
			5.50	DSF CR	KG 1		
In-line engine, diesel, 3.7l D2404,062 Vehicle: 833 DT	4	102.00	2.50	R CR	KG 1	21810201-00	STD
			2.50	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, Green engine		102.00	3.00	T CR	KG 1	21810202-00	STD
			2.50	M P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 4.8l D 110 Vehicle: U 50, U 500, U 650 M, U 651 M	4	108.00	3.00	R IF CR	KG 1	21810800-00 21810800-07	STD + 0.50
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			6.00	GSF P	LG 1		
			6.00	D P	LG 1		

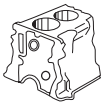

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG							
In-line engine, fuel, 1.0l AER, ALL Vehicle: Lupo 1.0, Polo 50 1.0, Polo Saloon 1.0	4	67.10	1.00	R CR	ST	22006701-00 22006701-07	STD + 0.50
			1.20	M P	LG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.1l HC Vehicle: Polo	4	69.50	1.75	R CR	KG 1	22006901-00	STD
			2.50	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, fuel, 895 cm ³ HA Vehicle: Polo, Derby 04/7507/81	4	69.50	1.75	R CR	KG 1	22006902-00 22006902-07	STD + 0.50
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
1.1l 801, FJ, GG, HB, HD,HC Vehicle: Scirocco, Polo, Derby, Jetta industrial engine	4						
In-line engine, fuel, 1.2l, CBZA, CBZB, CBZC Vehicle: Caddy III, Golf IV, Golf Plus, Beetle, Jetta, Polo, Touran, A1, A3	4	71.00	1.00	R CR P	ST	22007101-00 22007101-07	STD + 0.50
			1.20	NM P	LG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.2l, CBZA, CBZB Vehicle: Beetle, Caddy, Golf, Jetta, Polo, Touran	4	71.00	1.20	R NIT	ST	22007102-00	STD
			1.20	M CR	KG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.0l, CHZ Vehicle: Golf, Polo, T-Roc, 1.4l, CMBA, CXSA, CZCA Vehicle: Golf, Polo, T-Roc, Caddy, Passat, Sirocco, Caddy	4	74.50	1.20	R CR P	ST	22007401-00	STD
			1.20	M CR P	KG 1		
			2.00	SLF CR	ST		

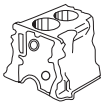

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, fuel, 1.4l, CPTA, CZEA Vehicle: Jetta, Golf, A3	4	74.50	1.20 1.20 2.00	R CR NM P DSFST CR	ST LG 1 ST	22007402-00	STD
In-line engine, fuel, 1.3l EP, EU Vehicle: Passat,Santana,Variant	4	75.00	1.50 1.75 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	22007501-00	STD
In-line engine, fuel, 1.3l HH, FZ, HJ, GT, FY, GF, GS Vehicle: Golf,Jetta,Passat,Santana	4	75.00	1.75 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	22007502-00	STD
In-line engine, fuel, 1.3l MN, IW Vehicle: Polo, Golf, Jetta	4	75.00	1.75 2.00 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	22007503-00 22007503-07 22007503-11	STD + 0.50 + 1.00
In-line engine, fuel, 1.3l ZA, ZP, EP Vehicle: Passat,Santana,Variant	4	75.00	2.00 2.50 4.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	22007504-00	STD
In-line engine, fuel, 1.0l ABD, AAU Vehicle: Polo 1.0,Polo Catalyst, Coupe,Golf Catalyst	4	75.00	1.50 1.50 2.50	R CR M P DSFST CR	KG 1 LG 1 ST	22007505-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, diesel, 1.5l CK Vehicle: Passat, industrial engine	4	76.50	1.75	R CR	KG 1	22007601-00	STD
			2.00	M P	LG 1	22007601-07	+ 0.50
			3.00	DSF CR	KG 1	22007601-11	+ 1.00
1.6l 1V. CY, JR, JX, MF Vehicle: Jetta, Passat, Santana, Golf, Caddy 10/91	4						
2.4l CP, DW, 1S, DL, 1E, HS Vehicle: LT 31 D, LT 33 D, LT 35 D LT 40 D, LT 45 D, LT 45 D industrial engine	6						
In-line engine, diesel, 1.6l CY, MF, JR, JX, 1V Vehicle: Passat, Jetta, Golf	4	76.50	1.75	R CR	KG 1	22007602-00	STD
			2.00	M IFU CR	KG 1	22007602-05	+ 0.25
			3.00	DSF CR	KG 1	22007602-07	+ 0.50
2.0l Vehicle: Audi	5						
2.4l 1G, ACL, DV, 1E, 1S, CP Vehicle: LT 31 D, LT 33 D, LT 35 D LT 40 D, LT 45 D, LT 45 D	6						
In-line engine, fuel, 1.4l ADX Vehicle: Caddy 1.4 16v, Lupo 1.4 16v, Polo 1.4 16v	4	76.50	1.20	R IF CR	ST	22007603-00	STD
			1.50	NM P	LG 1	22007603-07	+ 0.50
			2.50	DSFST CR	ST		
In-line engine, fuel, 1.6l ABU Vehicle: Golf III 1.6, Variant Synchro 1.6, Vento 1.6	4	76.50	1.50	R CR	KG 1	22007604-00	STD
			1.50	NM P	LG 1	22007604-07	+ 0.50
			2.50	DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, fuel, 1.4l BCA Vehicle: Bora 1.4 i 16V, Golf IV+ V 1.4 i 16V New, Beetle 1.4 i 16V, Skoda Octavia 1.4i	4	76.50	1.20	R CR	ST	22007605-00	STD
			1.20	M P	KG 2	22007605-05	+ 0.25
			2.00	SLF CR	ST	22007605-07	+ 0.50
In-line engine, fuel, 1.2l, AWY, AZQ, BMD Vehicle: Polo	3	76.50	1.20	R IF CR	ST	22007606-00	STD
			1.50	NM P	LG 1	22007606-05	+ 0.25
			2.50	SLF CR	ST	22007606-07	+ 0.50
1.3l, ADX Vehicle: Polo	4						
1.4l, AFK, AFH, AKK, ANM, ANW, APE, AUA, AUB, AUD, AQQ, AEX, AKV, AXP, BCA, BBY, Vehicle: Lupo, Polo, Caddy, Bora, Golf, New Beetle 1.4 16V, Audi A2 1.4	4						
1.6l, AEA, AEE, AHS, ALM, AJV, ARC, ATN, AUS, AVY, AZD, BCB, Vehicle: Golf, Polo, Vento, Caddy, Bora, Lupo	4						
In-line engine, fuel, 1.4l, BLG, BMY, BWK, CAVA, CTHA Vehicle: Touran, Jetta III, Golf V, Golf Plus, TIGUAN, SHARAN, JETTA IV	4	76.50	1.20	R IF CR	ST	22007607-00	STD
			1.50	M P	LG 1	22007607-05	+ 0.25
			2.00	SLF CR	ST	22007607-07	+ 0.50
Opposed-piston engine, fuel, 1.2l 113 Vehicle: 1200, 122 08/72 industrial engine	4	77.00	2.00	M P	LG 1	22007701-00	STD
			2.00	NM P	LG 1	22007701-05	+ 0.25
			4.00	DSF P	LG 1	22007701-07	+ 0.50
						22007701-09	+ 0.75
1.3l 113, M 240 Vehicle: 1300, 1302, 1303, Karmann Ghia	4						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, fuel, 1.2l 133 Vehicle: 113, 117, 141, 151, 211	4	77.00	2.50	M IF P	LG 1	22007702-00 22007702-05 22007702-07	STD + 0.25 + 0.50
			2.50	NM P	LG 1		
			4.00	DSF P	LG 1		
In-line engine, diesel, 2.5l AFB Vehicle: A4 2.5 TDI, A6 2,5 TDI, A8 2.5 TDI, Passat 2.5 TDI	V6	78.30	2.50	R IF CR P	KG 1	22007801-00	STD
			2.00	M IFU P	LG 1		
			3.00	DSF CR P	KG 1		
In-line engine, diesel, 2.5l AFB, AKN Vehicle: Passat TDi, Passat 2.5 V6	6	78.30	1.75	R CR P	KG 1	22007802-00	STD
			2.00	M IFU P	LG 1		
			3.00	DSF CR P	KG 1		
In-line engine, fuel, 1.6l 1600 Vehicle: Golf, Scirocco, Jetta, Passat, Audi 80, 100	4	79.50	1.75	R CR	KG 1	22007901-00	STD
			2.50	NM P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, fuel, 1.6l EE, EJ, AF, FN, FR Vehicle: Passat, Golf, Vento Caddy	4	79.50	1.75	R CR	KG 1	22007902-00 22007902-07 22007902-11	STD + 0.50 + 1.00
			2.00	NM P	LG 1		
			4.00	DSF CR	KG 1		
In-line engine, diesel, 1.9l 1X, 1Y, AEF, 1Z, AAZ, ABL, CAYA, CAYB, CAYC Vehicle: Passat, Golf, Vento, Passat, Caddy, Polo, T4	4	79.50	1.75	R CR	KG 1	22007903-00 22007903-05 22007903-07 22007903-11	STD + 0.25 + 0.50 + 1.00
			2.00	M IFU P	LG 1		
			3.00	DSF CR	KG 1		
2.4l AAB Vehicle: T4 09/90	5						



Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
VAG Cont.									
In-line engine, diesel, 1.9l 1X, 1Y, AEF, 1Z, AAZ, ABL, AEY, AGP, AFN,AHF, AHU, AGR Vehicle: Passat, T4, Polo, Golf, Vento, Sharan Caddy, Bora, New Beetle	4	79.50	1.75	R CR	KG 1	22007904-00	STD		
			2.00	R IFU CR	KG 1	22007904-07	+ 0.50		
			3.00	DSF CR	KG 1	22007904-11	+ 1.00		
2.4l AAB Vehicle: T4 09/90	5								
In-line engine, diesel, 1.6l CLHA, CRKB Vehicle: Golf VII	4	79.50	1.75	R CR P	KG 1	22007905-00	STD		
			2.00	M IFU P	KG 1				
			2.00	DSFST CR	ST				
In-line engine, fuel, 1.8l 1P, 2H, GU, PB, ABS, HV, ADZ, GX,DS, JV, JH, KR, KT, DX, DZ, GZ, EV,PF, HAT, PG, PL, RH Vehicle: Passat, Santana, Golf Cabrio, Jetta	4	81.00	1.50	R CR	KG 1	22008101-00	STD		
			1.75	NM P	LG 1			22008101-07	+ 0.50
			3.00	DSF CR	KG 1				
V-type engine, fuel, 2.3l VR5, AGZ Vehicle: Golf, Passat	5								
In-line engine, fuel, 2.8l VR6 AAA Vehicle: Scharan, Corrado	6								
2.9l VR 6, ABV Vehicle : Santana,Passat, Golf,Vento	6								
In-line engine, diesel, 2.5l ACV, AXL, AGX, AHD, AHY Vehicle : Transporter 2.5TD, Caravelle, LT28, LT35, LT46	5	81.00	2.50	R CR	KG 1	22008102-00	STD		
			2.00	M IFU P	LG 1			22008102-05	+ 0.25
			3.00	DSF CR	KG 1			22008102-07	+ 0.50
In-line engine, fuel, 1.8l AEB, AGU, ADR, AGN Vehicle : Passat 1.8,Bora1.8,Golf Gti A3, A4	4	81.00	1.50	R CR	KG 1	22008103-00	STD		
			1.75	NM P	LG 1			22008103-07	+ 0.50
			2.00	SLF CR	ST				



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, fuel, 2.4l Vehicle : A6	6	81.00	1.50 1.50 2.00	R CR NM P DSFST CR	KG 1 LG 1 ST	22008104-00	STD
In-line engine, fuel, 1.6l ADP, AEH, AEK Vehicle : Golf 1.6,Passat,Vento, A3, A4	4	81.00	1.20 1.50 2.00	R IF CR NM P SLF CR	ST LG 1 ST	22008105-00 22008105-07	STD + 0.50
In-line engine, fuel, 1.8l AEB, AGU, ADR, AGN, ARG, ARX Vehicle : Bora1.8,Passat 1.8	4	81.00	1.50 1.75 2.00	R CR NM P DSFST CR	KG 1 LG 1 ST	22008106-00	STD
In-line engine, diesel, 1.6l. BSE, BSF, CHGA Vehicle: Golf 1.6, New Beetle 1.6, Bora +, Passat 1.6, Caddy III	4	81.00	1.00 1.20 2.00	R CR NM P SLF CR	ST LG 2 ST	22008107-00 22008107-07 22008107-11	STD + 0.50 + 1.00
In-line engine, fuel, 2.0l AAC Vehicle: T4	4	81.00	1.75 2.00 3.00	R CR M IFU P DSF CR	KG 1 LG 1 KG 1	22008108-00 22008108-07	STD + 0.50
2.5l ACU, AAF Vehicle : T4 Syncro, T4	5						
In-line engine, diesel, 2.5l, ACV, AXL, AGX, AHD, AXE, BPC, BAC, BPE Vehicle: TRANSPORTER T4, LT 28-35 II, MULTIVAN T5, CRAFTER 30-35, TOUAREG (7LA, 7L6,7L7)	5	81.00	2.50 2.00 3.00	R IW CR M IFU P DSF CR	KG 1 LG 1 KG 1	22008109-00 22008109-05 22008109-07	STD + .025 + 0.50
In-line engine, diesel, 2.5l, BNZ Vehicle: California T5, Transporter T5, Multivan T5	5	81.00	1.75 2.00 3.00	R CR M IFU P DSF CR	KG 1 LG 1 KG 1	22008110-00	STD

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, fuel, 1.8l, 1P, 2H, ABS, ADZ, GU, GX, HV, JV, DS, DX, CZ, EV, GZ, KT, HT, JH, KR, PB, PF, PG, PL, RH Vehicle: Golf, Jetta, Sharan, Passat, Santana, Vento, Scirocco,	4	81.00	1.50	R IF CR P	KG 1	22008111-00	STD
			1.75	NM P	LG 1		
			3.00	SLF CR	ST		
2.4l, AGZ, AQN, AZX Vehicle: Bora, Golf, Passat, New Beetle	5						
2.8l, AAA, AES, AMV, AMY, AQP, AUE, AYL, BDE, Vehicle: Bora, Golf, Sharan California, Transporter	6						
In-line engine, fuel, 2.0l, AAC Vehicle: T4	4	81.00	1.75	R CR	KG 1	22008112-00	STD
			2.00	M IFU P	LG 1		
			3.00	SLF CR	ST		
2.5l, AAF, ACU Vehicle: T4, T4 Syncro	5						
In-line engine,diesel, 2.0l, DBGA, DELA, CUU, DFS Vehicle: Golf, T-Roc, Passat, Jetta, Tiguan	4	81.00	1.75	R CR	KG 1	22008113-00	STD
			2.00	M IFU CR	KG 1		
			2.00	DSFST CR	ST		
In-line engine,diesel, 2.0l, CFHB, CBAB, CDBA, CFHC, CJAA, CMEA, CFHE, CEGA Vehicle: Golf VI, Jetta IV, Caddy III, Touran	4	81.00	1.75	R CR P	KG 1	22008114-00	STD
		2.00	M IFU CR	KG 1			
		3.00	DSF CR	KG 1			

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, fuel, 2.0l AGE, ATX, ACK, APK, ATM, AXW Vehicle : Passat 2.0,Golf 2.0,Vento 2.0	4	82.50	1.20	R IF CR P	ST	22008201-00 22008201-07	STD + 0.50
			1.50	M IW P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 2.0l. CD, CG, CL, GL Vehicle: Gol I, Gol II, Logus	4	82.50	1.50	R CR	KG 1	22008202-00	STD
			1.50	M IF P	LG 1		
			2.00	SLF CR	ST		
In-line engine, fuel, 1.8l 1900E 4A-LC Gasoline 2.3l 7A Vehicle: Passat, Audi 80, 90, 100	4	82.50	1.50	R CR	KG 1	22008203-00	STD
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
	5						
In-line engine, fuel, 1.8l, CDAA Vehicle: CC (358), PASSAT ALLTRACK, SHARAN 2.0l, CCZA Vehicle: BEETLE, GOLF VI, JETTA IV, GOLF VII, SCIROCCO	4	82.50	1.20	R IF CR P	ST	22008204-00 22008204-07	STD + 0.50
			1.20	NM P	KG 2		
			2.00	SLF CR	ST		
In-line engine, fuel, 2.0l, AXX, BPY, BWA Vehicle: GOLF V, PASSAT, JETTA III	4	82.50	1.20	R IF CR P	ST	22008205-00 22008205-05 22008205-07	STD + 0.25 + 0.50
			1.50	NM P	LG 1		
			2.00	DSFST CR	ST		
In-line engine, fuel, 1.8l, CDAA, CAE Vehicle: Sagitar, Transporter, Tiguan, Passat Alltrack	4	82.50	1.20	R IF CR P	ST	22008206-00 22008206-05 22008206-07	STD + 0.25 + 0.50
			1.20	NM P	KG 2		
			2.00	DSFST CR	ST		
In-line engine, fuel, VW + Audi	4	82.50	1.00	R IF CR P	ST	22008207-00	STD
			1.20	M IFU P	KG 2		
			1.50	SLF CR	ST		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VAG Cont.							
In-line engine, fuel, 2.9l, ABV Vehicle: Corrado, Golf	6	82.00	1.50 1.75 3.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	22008208-00	STD
In-line engine, fuel, 1.5l 124, 126, 311 Vehicle: Kafer 1500,Transporter	4	83.00	2.00 2.00 4.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	22008301-00	STD
In-line engine, diesel, 3.0l EA 896, BKS, BMK, BUN Vehicle: A4,A6, Touareg, Phaeton 3.0 4.1l EA896 Vehicle: A8	6 8	83.00	2.00 2.00 3.00	B CR M IFU CR DSF CR	KG 1 KG 1 KG 1	22008302-00 22008302-05 22008302-07 22008302-11 22008302-14	STD + 0.25 + 0.50 + 1.00 + 1.50
In-line engine, diesel, 3.0l CARA, CASA, CASD, CATA Vehicle: VW + Audi Touareg, Phaeton 3.0	4	83.00	1.75 2.00 3.00	R IF CR P M P DSF CR	KG 1 LG 1 KG 1	22008303-00	STD
In-line engine, diesel, 3.0l CARA, CASA, CASD, CATA Vehicle: VW + Audi Touareg, Phaeton 3.0	4	83.00	1.75 2.00 3.00	R CR M IFU CR DSF CR	KG 1 KG 1 KG 1	22008304-00	STD
In-line engine, fuel, 3.2l AZZ, AXJ, AYT, BDL, BFH, BKJ, BDB, BHE Vehicle: Touareg, Beetle, Phaeton, Multivan, Golf V6 + VR 6 A3 3,2 + TT	6	84.00	1.20 1.50 2.00	R CR NM P SLF CR	ST LG 1 ST	22008401-00	STD

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
VAG Cont.								
In-line engine, fuel, 4.2l Bar Vehicle: Touareg 4.2 VW + Audi	8	84.50	1.20 1.50 2.00	R IF CR P NM P DSFST CR	ST LG 1 ST	22008402-00	STD	
In-line engine, fuel, 4.2l BGJ, AXQ Vehicle: Phaeton, Touareg	8	84.50	1.20 1.50 3.00	R CR P NM P DSFST CR	ST LG 1 ST	22008403-00	STD	
Opposed-piston engine, gas, 1.6l 311 AD/AS 311-314, 343-346, 361-364 Vehicle: Käfer 1303 (BRA)	4	85.50	2.00 2.00 5.00	R CR M IF P DSF CR	KG 1 LG 1 KG 1	22008500-00 22008500-07	STD + 0.50	
Opposed-piston engine, fuel, 1.6l 211, 311 AD/AS 311-314, 343-346, 361-364 Vehicle: 181, 1200, 1303, (USA)	4	85.50	1.75 2.00 5.00	R CR NM P DSF CR	KG 1 LG 1 KG 1	22008501-00	STD	
In-line engine, fuel, 3.6l, CHNA, BHK Vehicle: EOS, Phaeton, Touareg	6	89.00	1.20 1.50 2.00	R CR NM P SLF CR	ST LG 1 ST	22008901-00	STD	
In-line engine, diesel, 2.3l, AGK, ATA, AUH, BCQ Vehicle: LT 28 D, LT 35 D, LT 46 D	4	93.00	2.50 2.00 3.00	T IW CR P NM P DSF CR P	KG 1 LG 1 KG 1	22009301-00 22009301-07	STD + 0.50	
Opposed-piston engine, fuel, 1.9l DH, H4, DF, DG, EY, GW Vehicle: 245/247/251/253/255, type 2 Syncro	4	94.00	1.75 2.00 4.00	R CR NM P DSF P	KG 1 LG 1 LG 1	22009401-00	STD	
2.0l CJ, GE, CU, CV Vehicle: 211/221/DSF/245/247/251/253/ 255/261/2000/T2	4							



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

VAG Cont.

In-line engine, fuel, 2.1l, DJ, MV, SS, SR Vehicle: Transporter T3	4	94.00	1.75 2.00 3.50	R CR NM P DSF CR P	KG 1 LG 1 KG 1	22009402-00	STD
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VALMET

In-line engine, diesel, 359, 361, 565, 500, 502, 504	3	100.00	2.50 3.00 3.00 5.00	R CR P M P NM P DSF CR P	KG 1 LG 1 LG 1 KG 1	22210001-00	STD
In-line engine, diesel, T5532, V836539010		100.00	2.50 3.00 4.00	R CR P M P DSF CR	KG 1 LG 1 KG 1	22210002-00	STD
In-line engine, diesel, 700,705,805,900,411A	4	108.00	2.50 3.00 5.00	R CR M IFU P DSF CR	KG 1 LG 1 KG 1	22210801-00	STD
In-line engine, diesel, 255,355,455,555,365,465,565	3	108.00	2.50 2.50 4.00	R CR P M IFU P DSF CR P	KG 1 LG 1 KG 1	22210802-00	STD
In-line engine, diesel, 702,712,903,1102,1112	4	108.00	3.00 3.00 3.00 5.00	R CR P M IFU P M IFU P DSF CR	KG 1 LG 1 LG 1 KG 1	22210803-00	STD
In-line engine, diesel, 6400,6600,6800,6550HI	4	108.00	3.00 2.50 4.00	T CR M IFU P DSF CR	KG 1 LG 1 KG 1	22210804-00	STD
In-line engine, diesel,		108.00	3.00 2.50 3.00	T IF CR P M IFU P DSFST CR	KG 1 LG 1 ST	22210805-00	STD
In-line engine, diesel, 6100, 6300LS, 6350Hi, 6400, 6400LS		108.00	3.00 2.50 4.00	T CR P M IFU P DSFST CR	KG 1 LG 1 ST	22210806-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					

VALMET Cont.



In-line engine, diesel, 255, 355, 365, 455, 465, 555, 600	108.00	2.50	R CR P	KG 1	22210807-00	STD
		2.50	M IFU P	LG 1		
		4.00	DSFST CR	ST		
In-line engine, diesel, 702 , 703 , 712 , 903 , 1102 , 702s	108.00	2.50	R CR P	KG 1	22210808-00	STD
		3.00	M IFU P	LG 1		
		3.00	M IFU P	LG 1		
		5.00	DSF CR	KG 1		
In-line engine, diesel,	111.00	3.00	T IF CR P	KG 1	22211101-00	STD
		2.50	M IFU P	LG 1		
		3.00	DSFST CR	ST		

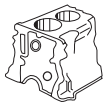

VM

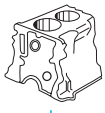

In-line engine,diesel, 432cbm IS11	1	84.00	3.00	R CR P	KG 1	22108401-00	STD			
			2.50	NM P	LG 1			22108401-07	+ 0.50	
			4.00	DSF P	LG 1			22108401-11	+ 1.00	
In-line engine,diesel, 1000cm3 DM286HD	2	86.00	3.00	T CR P	KG 1	22108601-00	STD			
			2.50	M IF P	LG 1			22108601-07	+ 0.50	
			4.00	DSF CR P	KG 1			22108601-11	+ 1.00	
In-line engine, diesel, 2.8l, ENS (RA428) Vehicle: VOYAGER (RT) 2.8 CRD, WRANGLER III (JK) 2.8 CRD, CHEROKEE (KK) 2.8 CRDi 4x4, OE : K68090425AA	4	94.00	2.50	TM IW CR	KG 1	22109401-00	STD			
			1.50	NM P	LG 1			22109401-06	+ 0.40	
			2.00	DSFST CR	ST			22109401-07	+ 0.50	
In-line engine,diesel, 951 SU,195 SV, 10 DA/SL, 952 SU, 295 SV, 22 DA/SL, 395 SV, 35 DA/SL, 954 SU, 50 DA/SL, 956 SU	1	95.00	2.50	R IF CR P	KG 1	22109501-00	STD			
			2	2.50	NM P			LG 1	22109501-08	+ 0.60
			3	2.50	NM P			LG 1	22109501-11	+ 1.00
			4	5.00	G P			LG 1	22109501-14	+ 1.50
In-line engine, diesel, 198 SV-298 SV-398SV 1015 SU Vehicle: SU Series	1	98.00	2.50	R CR P	KG 1	22109801-00	STD			
			2	2.50	M P			LG 1	22109801-08	+ 0.60
			3	2.50	NM P			LG 1		
				5.00	DSF CR P			KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
VM Cont.								
In-line engine, diesel, 110SL,210SL,310SL,410SL	1	100.00	2.50	R CR	KG 1	22110001-00	STD	
	2		2.50	M P	LG 1			
	3		2.50	NM P	LG 1			
	4		5.00	DSF CR	KG 1			
In-line engine,diesel, 101 SU, 102 SU/MH 11, 103 SU/MH 11, 104 SU/MH 11, 106 SU/MH 11	1	100.00	2.50	T CR	KG 1	22110002-00	STD	
	2		2.50	NM P	LG 1	22110002-08	+ 0.60	
	3		2.50	NM P	LG 1	22110002-11	+ 1.00	
	4		5.00	DSF P	LG 1			
In-line engine, diesel, 952 cm ³ 1051 SU Vehicle: SU Series	1	105.00	3.00	T CR	KG 1	22110501-00	STD	
			2.50	M IF P	LG 1	22110501-08	+ 0.60	
			2.50	NM P	LG 1	22110501-11	+ 1.00	
			5.00	DSF CR	KG 1			
	1.9 l 1052 SU Vehicle: SU Series		2					
	2.9 l 1053 SU Vehicle: SU Series		3					
	3.8 l 1054 SU Vehicle: SU Series		4					
5.7 l 1056 SU Vehicle: SU Series	6							
2.0 l SUN 2105	6							
In-line engine, diesel, 1152 DAN 1153 DAN 1154 DAN 1156 DAN		115.00	3.00	T CR P	KG 1	22111501-00	STD	
			3.00	M P	LG 1	22111501-08	+ 0.60	
	2		3.00	NM P	LG 1	22111501-11	+ 1.00	
			6.00	DSF CR	KG 1			
	3							
	4							
6								

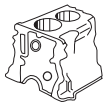

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VOLKSWAGEN							
Please see VAG							
VOLVO-PKW							
In-line engine, diesel, 2.4l D 24 Vehicle: 240, 244, 245, 740	6	76.50	1.75	R CR	KG 1	22507601-00	STD
			2.00	NM P	LG 1		
			3.00	DSF CR	KG 1		
Penta		79.00	1.75	R CR	KG 1	22507901-00	STD
			2.00	M P	LG 1		
			3.50	DSF CR	KG 1	22507901-07	+ 0.50
In-line engine,diesel, 1.9 l F8Q Vehicle: 440, 460 1.9Li TD	4	80.00	2.50	T CR	KG 1	22508001-00	STD
			2.00	M IFU P	LG 1		
			3.00	DSF CR	KG 1	22508001-07	+ 0.50
In-line engine,diesel, 1.9 l D 4192 T Vehicle: S 40 1.9TD, V40 1.9TD	4	80.00	2.50	R IF CR	KG 1	22508002-00	STD
			2.00	M IFU P	LG 1		
			3.00	DSF CR	KG 1	22508002-07	+ 0.50
In-line engine,fuel, 2.4 l B 5234 FT Vehicle: S 70, 850 T5	5	81.00	1.50	R CR	KG 1	22508101-00	STD
			1.75	NM P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine,fuel, 2.0 l B 5204T2 Vehicle: 850, S 70, V 70	5	81.00	1.20	R CR	ST	22508102-00	STD
			1.50	NM P	LG 1		
			2.50	SLF CR	ST		



Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
VOLVO-PKW Cont.								
In-line engine, fuel, 2.0l B 5204 S, B 5204 FT Vehicle: S 40, V 40 (I), S 70, V 70 (I)	5	81.00	1.20	1.75	R CR	ST	22508103-00 22508103-07	STD + 0.50
			3.00		NM P	LG 1		
2.5l B 6254 S/G Vehicle : 960	6				DSF CR	KG 1		
In-line engine,fuel, 1.7 l F 3 N, B 18 KPD, B 18 KP, B 18 E/ED/F/ EP/FP, F 3 N-230, B 18 E/ED/F, F 3 N-230, B 172 K, B 18 KP/KPD Vehicle: 340, 360, 480, 440, 460	4	81.00	1.75	2.00	R CR	KG 1	22508104-00	STD
			3.00		M P	LG 1		
					DSF CR	KG 1		
In-line engine,diesel, 2.4 l D5244 T D5244 T2 Vehicle: S60, S80, V70, XC90 2.4 TD	5	81.00	2.00	1.75	R CR	KG 1	22508105-00	STD
			3.00		NM P	LG 1		
					DSF CR	KG 1		
In-line engine,diesel, 2.5 l D 5252 T Vehicle: S/V 70, 850 TDI	5	81.00	2.50	2.00	R CR	KG 1	22508106-00	STD
			3.00		M P	LG 1		
					DSF CR	KG 1		
In-line engine, diesel, 2.4l, D5244 Vehicle: S60, S80, V70, XC 60	5	81.00	2.00	1.75	R IF CR P	KG 1	22508107-00	STD
			2.00		M IFU CR	KG 1		
					DSFST CR	ST		
In-line engine, diesel, 2.0l, D 5204 T, T2, T3, T4, T5, T6, T7 Vehicle: V50, S40, C70, C30, S60, S80, V60, V70, XC60, XC70, V40	5	81.00	2.00	1.75	R IF CR P	KG 1	22508108-00	STD
			2.00		M IFU CR P	LG 1		
					DSFST CR	ST		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VOLVO-PKW Cont.							
In-line engine, fuel, 2.0l F7R, B 20 F Vehicle: 440, 460	4	82.70	1.20 1.50 2.50	R CR NM P DSF CR	ST LG 1 KG 1	22508201-00	STD
1.8l B 18 U Vehicle : 440, 460	4						
2.5l B 5252 F Vehicle : 850 GLE	5						
In-line engine, fuel, 2.0l F7R, B 20 F Vehicle: 440, 460	4	82.70	1.50 1.75 3.00	R CR M P DSF CR	KG 1 LG 1 KG 1	22508202-00	STD
1.8 l B 18 U Vehicle : 440, 460	4						
In-line engine, diesel, 2.0l D 4204 Vehicle: XC40, S60, S90, V40, V60, V90, AWD	4	82.00	2.00 1.75 2.00	R IF CR P M IFU P DSFST CR	KG 1 LG 1 ST	22508203-00	STD
In-line engine,fuel, 2.5 l N 2P 25 FS, B 5254 F Vehicle: 850 GLT	5	83.00	1.20 1.75 3.00	R CR M P DSF CR	ST LG 1 KG 1	22508301-00 22508301-07	STD + 0.50
In-line engine, fuel, 2.0l B 5252 T, B 5244, B 5254, B 4204 T, B 4184 S, B 5204 T2 Vehicle: C70, S70, V70, C 70 T5, S 80, S 40 Turbo, V 40 Turbo, S 70 T, V 70 T, C 70 T	4	83.00	1.20 1.50 2.50	R IF CR NM P SLF CR	ST LG 1 ST	22508302-00 22508302-07	STD + 0.50
1.7 l B 4202 S Vehicle : S 40, V 40	4						
2.4l B 5252 F/FS Vehicle : 850 GLE, SE, GLT	5						
2.3l B 5234 T2 Vehicle : S 70 T5, V 70 T5	5						

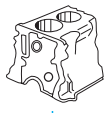

Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
VOLVO-PKW Cont.								
In-line engine, fuel, 2.5 l B5252 Vehicle: 440, 460, 480, 850	5	83.00	1.50	1.75	R CR	KG 1	22508303-00	STD
			3.00	DSF CR	KG 1			
3.0l B6304 Vehicle: S90, V90	6							
In-line engine, fuel, 2.5 l N 2P 25 FS, B 5254 F Vehicle: 850 GL	5	83.00	1.20	1.75	R IF NIT	ST	22508304-00	STD
				3.00	NM P	LG 1		
					SLF CR	ST		
In-line engine, fuel, 1.9l B 200 K/E Vehicle: 360	4	88.90	1.75	1.75	R CR	KG 1	22508801-00	STD
				3.50	NM P	LG 1		
					DSF CR	KG 1		
In-line engine, fuel, 2.0l B19A, B19E, B20A, B20B, B20E Vehicle: 142,144,145,C 202,242,244,245	4	88.90	1.75	2.00	R CR	KG 1	22508802-00 22508802-07	STD + 0.50
				4.00	NM P	LG 1		
					DSF CR	KG 1		
In-line engine, fuel, 2.1l B 21 A B 21 E B 21 ET B 21 F/FT/FTI Vehicle: 240, 242, 244, 245	4	92.00	1.75	2.00	R CR	KG 1	22509201-00	STD
				4.00	NM P	LG 1		
					DSF CR	KG 1		



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VOLVO-PKW Cont.							
In-line engine, fuel, 2.1l B 21 B 21 E B 21 ET B 21 F/FT/FTI Vehicle: 240, 242, 244, 245	4	92.00	2.00 2.00 4.00	R IF CR NM P DSF CRP	KG 1 LG 1 KG 1	22509202-00	STD
In-line engine,diesel, 2.4 l MD 31, MD 31 A Vehicle: Marinemotor	4	92.00	2.50 2.50 4.00	T CR R IW CR DSF CR	KG 1 KG 1 KG 1	22509203-00	STD
In-line engine, diesel, 3.6l TMD 40 B/C, TMD 40 A, TD 41 G, TAMD 40 A/B, AQAD 40 A, MD 40 A Vehicle: Marinemotor	6	92.00	2.50 2.50 4.00	T CR M IF P DSF CR	KG 1 LG 1 KG 1	22509204-00	STD
In-line engine, diesel, TMD31D TMD31LA TMD41D TMD41LA 149.9 HP (111.77kw) (Marinemotor)	4	92.00	3.00 2.50 4.00	T CR R IF CR P DSF CR	KG 1 KG 1 KG 1	22509205-00	STD
In-line engine, fuel, 2.3l B 230 E/F/ FB/ FF/ FD/ GS/ FS/FDI/A/K B 234 F Vehicle: 740, 760, 240, 940	4	96.00	1.75 1.75 3.50	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	22509601-00 22509601-07	STD + 0.50
2.5l 151 A Vehicle: marine engine	4						
In-line engine, fuel, 2.4l MB23 Vehicle: 240,740,760,940,960	4	96.00	1.75 2.00 4.00	R IF CR NM P DSF CR	KG 1 LG 1 KG 1	22509602-00 22509602-07	STD + 0.50

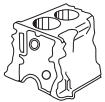
Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VOLVO-NUTZFAHRZEUGE							
In-line engine, diesel, 5.1l D50A/B Vehicle: N84,F84,F85,B54	6	95.25	2.38 3.16 3.16 4.74	R IF CR M IF P M IF P DSF CR	KG 1 LG 1 LG 1 KG 1	22609501-00	STD
5.1l TD50A/B Vehicle: N84,F84,F85,B54	6						
In-line engine, diesel, 5.1l D50A/B,TD50A/B	6	95.25	2.38 3.16 3.16 4.76 4.76	R IF CR M IF P M IF P DSF CR D P	KG 1 LG 1 LG 1 KG 1 LG 1	22609502-00	STD
In-line engine, diesel, 5.5l D 60 TD 60 A/B/C/D/DG TID 61 A/ACE TD 610 G TD 61 A/AG/APB/ACE/AGP /AP/F/G/GS/GD TWD 610 G TAMD 60 C Vehicle: F 607, F 609, F 613, F 614, F 616, F 617, N 84, B 6 F, B 6 F, 200 CH F 610, F 611, F 612	6	98.42	2.38 3.16 4.74	R CR M P DSF CR	KG 1 LG 1 KG 1		
In-line engine, diesel, 5.5l D 60 TD 60 A/B/C/D/DG TID 61 A/ACE TD 610 G TD 61 A/AG/APB/ACE/AGP /AP/F/G/GS/GD TWD 610 G TAMD 60 C Vehicle: F 607, F 609, F 613, F 614, F 616, F 617, N 84, B 6 F, B 6 F, 200 CHF 610, F 611, F 612	6	98.42	2.38 3.16 4.74	R CR R CR DSF CR	KG 1 KG 1 KG 1	22609802-00	STD
In-line engine, diesel, 5.5l TD63 Vehicle: FL 611, 612, 613, 614 (TD 63)	6	98.42	3.50 2.50 3.50	T IF CR M IFU P DSF CR	KG 1 LG 1 KG 1		

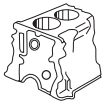

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VOLVO-NUTZFAHRZEUGE Cont.							
In-line engine, diesel,		103.00	3.00	T IF CR	KG 1	22610301-00	STD
			2.50	M IWU P	LG 1		
			3.50	DSF CR	KG 1		
In-line engine, diesel, 3.7l D4-225 A-E	4	103.00	3.00	T IF CR	KG 1	22610302-00	STD
			2.50	M IWU CR	KG 1	22610302-05	+ 0.25
			3.00	DSF CR	KG 1	22610302-09	+ 0.75
In-line engine, diesel, 6.7l D 70 A, D 70 B, MD 70 B MD 70 C, D 70 CHC, D 70 CRC TAMD 70/C, TAMD 71 TD 70 A/B/C/E/ES/G/F/FSH/HA, TMD 70 B TWD 710 G, TD 71 A TMD 70 C TAMD 71 A/D/E Vehicle: Marinemotor	6	104.77	2.38	R CR	KG 1	22610401-00	STD
			3.16	M IF P	LG 1		
			3.16	M P	LG 1		
			4.74	DSF CR	KG 1		
In-line engine, diesel 6.7l MD 70 B TD 70 A TD 70 B Vehicle: F 86, N 86, Marinemotor	6	104.77	2.38	R CR	KG 1	22610402-00	STD
			3.16	M IF P	LG 1		
			3.16	NM P	LG 1		
			4.74	DSF CR	KG 1		
			4.76	G P	LG 1		
In-line engine, diesel, 6.7l TD70E 3500,3700,5350,969,971,980, B57,Dumper 4500,F86, LM1240,N725,TF86	6	104.77	2.38	R CR	KG 1	22610403-00	STD
			3.16	M IF P	LG 1		
			4.74	DSF CR	KG 1		
6.7l TD70F 3500,3700,5350,969,971,980, B57,Dumper 5350,F7,F716, F724,LM1240,N7	6						
3.4l TD70H/HA Vehicle: 3500,3700,Industrial	6						



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VOLVO-NUTZFAHRZEUGE Cont.							
In-line engine, diesel, 6.7l D7A Vehicle: FL7+ B7R, FL 290 (D 7A)	6	104.77	3.50 2.50 3.50	T IF CR M IFU P DSF CR	KG 1 LG 1 KG 1	22610404-00	STD
In-line engine, diesel, 6.7l TD73E,TD73ES Vehicle: Marinemotor	6	104.77	3.00 2.50 4.00	T CR M IFU P DSF CR	KG 1 LG 1 KG 1	22610405-00	STD
In-line engine, diesel, TD42, TD45	4	105.57	2.38 3.16 3.16 4.74	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	22610501-00	STD
In-line engine, diesel, 4.2l, D42 - TD42 4.5l, D45 - TD45	4	105.57	2.38 3.16 3.16 4.76 4.76	R CR M IF P NM P DSF CR D P	KG 1 LG 1 LG 1 KG 1 KG 1	22610502-00	STD
In-line engine,diesel, 7.3 l D7C215 D7C250 D7C290 Vehicle: FM7	6	107.00	3.50 2.50 3.50	T IF CR M IFU P DSF CR	KG 1 LG 1 KG 1	22610701-00	STD
In-line engine,diesel, 7.1l D7D Vehicle: EC240B, EC290B, L110E, L120E, L40, L45	6	108.00	3.00 2.00 3.50	T IW CR M IFU P DSF CR	KG 1 LG 1 KG 1	22610801-00	STD
In-line engine, diesel, 6.7l 1113/1114 Vehicle: Tractör 350/470 Bolinder Munktell	6	111.12	2.38 3.16 3.16 4.76 4.76	R IF CR M P NM P D P DSF CR P	KG 1 LG 1 LG 1 LG 1 KG 1	22611101-00	STD



Make - Engine - Model					Ring type	Material	Powerseal No	Size
	No	Ø mm.						
VOLVO-NUTZFAHRZEUGE Cont.								
In-line engine, diesel, 9.6l D 100 A/B, MD 100 B, HD 100 A TD 100 A, THD 100 A, THD 100 D, TMD 100 A, TMD 100 AK, THD 101 B Vehicle: N 88, F 88, NB 88, FB 88, N 10 B 10, B 58, B 59, 300 CH, B 58, B 59	6	120.65	2.38 3.16 3.16 4.76	R CR M P NM P DSF CR	KG 1 LG 1 LG 1 KG 1	22612001-00	STD	
In-line engine, diesel, 9.6l TD 100 B/BG/G/GA/F/CHC TD 101 F/FA/FD/G/GA/GC TD 102 F/GB/KA/KB/K/KE THD 100 DB/DC/DD/E/EB /EC/EDTHD 101 G/GC/GD /K/KB/KC/MCTMD 100/C TMD 102/A/C Vehicle: Marinemotor	6	120.65	2.38 3.16 4.76	R CR R IF CR DSF CR	KG 1 KG 1 KG 1	22612002-00	STD	
In-line engine, diesel, 9.6l TD102F,TD102FD,TD102FF Vehicle: B10M, F10, FL10	6	120.65	3.00 3.16 4.76	R CR R IF CR DSF CR	KG 1 KG 1 KG 1	22612003-00	STD	
In-line engine,diesel, 9.6 l TD 103, D 10 Euro 2, DH 10 A Euro 2 Vehicle: Bus, FL 10-360 IC	6	120.65	4.00 3.16 4.76	T IF CR R IW CR DSF CR	KG 1 KG 1 KG 1	22612004-00	STD	
In-line engine,diesel, 9.6 l TD 103 KF, KB Euro 1, TD 103 E/ES/EA Euro 2 Vehicle: Bus B 10 M, F 10-38/40/52, NL 10, FL 10, FS 10	6	120.65	3.50 3.16 4.76	T IF CR R IW CR DSF CR	KG 1 KG 1 KG 1	22612005-00	STD	
In-line engine, diesel, 7.4l, D9 A Euro 3, D9 A260/340/380 Vehicle: FM 9 , FM 9/260 - 300 - 340 - 380	6	120.00	4.00 3.00 3.00	T IW CR P M IFU P DSFST CR	KG 1 LG 1 ST	22612006-00	STD	

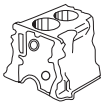

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
VOLVO-NUTZFAHRZEUGE Cont.							
In-line engine, diesel, 12.0l TAD 121 CHC TD 120 A/C/D/E/AG/G/GA, TMD 120 A, TAMD 120 A TD 121 F/G/GD/F/FC TMD 121 C, 122 GB, 122 KBE TD 122 FK/FR/FS/KE/GB/KBE TAMD 122/A/F/FH/FL/G/GA /GH/KHDTMD 122 A TAMD 121 C/D TAD 120 BHC, TAMD 120 B, TID 121 /FG Vehicle: FS10, F12GL, N12, Marinemotor	6	130.17	2.38 3.16 4.76	R CR M IW CR DSF CR	KG 1 KG 1 KG 1	22613001-00	STD
In-line engine, diesel, 12.0l TD120A Vehicle: CH 230,F89,N12	6	130.17	2.38 3.16 4.76	R CR R CR M P DSF CR	KG 1 KG 1 LG 1 KG 1	22613002-00	STD
In-line engine, diesel, 12.0l TAMD121,TID121LG, TD122F,TD123 Vehicle: Industrialmotor	6	130.17	3.50 3.17 4.76	T IF CR M IW CR DSF CR	KG 1 KG 1 KG 1	22613003-00	STD
In-line engine, diesel, 12.0l D12 Euro II Vehicle: FH12	6	131.00	4.00 3.00 4.00	T IF CR M IWU P DSFST CR	KG 1 LG 1 ST	22613101-00	STD
In-line engine, diesel, 12.8l D 13 (375 - 500 PS) Vehicle : Trucks VN+VHD, FH400, FM400	6	131.00	3.50 2.50 3.00	T IF CR M IFU CR DSFST CR	KG 1 KG 1 ST	22613102-00	STD
In-line engine, diesel, 16.1l D16 A Vehicle: FH 16	6	144.00	4.50 3.50 5.00	T IW CR M IF P DSF CR	KG 1 LG 1 KG 1	22614401-00	STD



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
WESTINGHOUSE							
Please see COMPRESSORS							
YAMZ							
236-1004002-A4	6	130.00	3.50	HK CR	KG 1	22813001-00	STD
			3.50	HKM P	LG 1		
236, 238, 240	8		3.50	HKM P	LG 1		
			6.50	DSF CR P	KG 1		
7511.1004002	6	130.00	3.50	T CR P	KG 1	22813002-00	STD
			3.00	M IWU CR P	KG 1		
236BE2, 236 HE2	8		5.00	DSF CR P	KG 1		
658.1004002	6	130.00	3.50	T CR P	KG 1	22813003-00	STD
			3.00	M IWU CR P	KG 1		
Euro 3, 4 6561, 6583.10	8		4.00	DSF CR P	KG 1		
YANMAR							
In-line engine,diesel,		64.00	2.00	HK CRP	KG 1	22706401-00	STD
			1.50	NM P	LG 1		
			3.00	DSF CRP	KG 1		
						22706401-05	+ 0.25
						22706401-07	+ 0.50
In-line engine,diesel,		66.00	1.50	R IF CRP	KG 1	22706601-00	STD
			1.50	M P	LG 1		
			3.50	DSF CRP	KG 1		
In-line engine,diesel,		66.00	1.50	R IF CRP	KG 1	22706602-00	STD
			1.50	M P	LG 1		
			3.00	DSF CRP	KG 1		
In-line engine,diesel, 119265-22500		68.00	1.50	HK CR	KG 1	22706801-00	STD
			1.50	M P	LG 1		
			3.00	DSF CR	KG 1		
In-line engine,diesel, 719600-22502		68.00	1.50	R CR	KG 1	22706802-00	STD
			1.50	M P	LG 1		
			3.50	DSF CR	KG 1		

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
YANMAR Cont.							
In-line engine,diesel, TS 50	70.00	2.00	R CR	KG 1	22707001-00	STD	
			M P	LG 1			
			NM P	LG 1			
			DSF CR	KG 1			
In-line engine,diesel, KAMA 170	70.00	1.50	R CRP	KG 1	22707002-00	STD	
			M P	LG 1	22707002-05	+ 0.25	
			DSF CRP	KG 1	22707002-07	+ 0.50	
In-line engine,diesel, KAMA 170 119515-22500	70.00	1.50	HK CR	KG 1	22707003-00	STD	
			M P	LG 1			
			DSFST CR	ST			
In-line engine,diesel, 728296-22500	72.00	2.00	R CR P	KG 1	22707201-00	STD	
			M P	LG 1			
			DSFCR	KG 1			
In-line engine,diesel, 2T72	72.00	1.50	R CR	KG 1	22707202-00	STD	
			M P	LG 1	22707202-05	+ 0.25	
			DSF CR	KG 1	22707202-07	+ 0.50	
In-line engine,diesel, KAMA 173F	73.00	1.50	R CR	KG 1	22707301-00	STD	
			R P	LG 1	22707301-05	+ 0.25	
			DSF CR	KG 1	22707301-07	+ 0.50	
In-line engine,diesel, 3TNA74	74.00	1.50	R CR P	KG 1	22707401-00	STD	
			M P	LG 1			
			DSF CR	KG 1			
In-line engine,diesel, For Yanmar tractor models: 220 226, 250, 1601, 1610, 1702, 1720, 1810, F16. 721575-22500	75.00	2.00	R CRP	KG 1	22707501-00	STD	
			M P	LG 1			
			DSF CRP	KG 1			
In-line engine,diesel, TS 60 704200-22502	75.00	2.00	R CRP	KG 1	22707502-00	STD	
			M P	LG 1			
			NM P	LG 1			
			DSF CRP	KG 1			
In-line engine,diesel, 119717-22500	76.00	1.50	HK CR	KG 1	22707601-00	STD	
			M P	LG 1			
			DSFST CR	ST			

Make - Engine - Model				Ring type	Material	Powerseal No	Size		
	No	Ø mm.							
YANMAR Cont.									
In-line engine,diesel, 4JH-E 729403-22500		78.00	2.00	R CRP	KG 1	22707801-00	STD		
			2.00	NM P	LG 1	22707801-05	+ 0.25		
			4.00	DSF CRP	KG 1	22707801-07	+ 0.50		
In-line engine,diesel, KAMA 178		78.00	1.50	R CRP	KG 1	22707802-00	STD		
			1.50	M P	LG 1	22707802-05	+ 0.25		
			3.50	DSF CRP	KG 1	22707802-07	+ 0.50		
In-line engine,diesel, TS70 Vehicle: 1500, 2500, 2610 704300-22502	4	80.00	2.50	R CRP	KG 1	22708001-00	STD		
			2.50	M P	LG 1				
			2.50	NM P	LG 1				
			4.00	DSF CRP	KG 1				
In-line engine,diesel, L 75AE-SE 714550-22502		80.00	2.00	R CRP	KG 1	22708002-00	STD		
			2.00	M P	LG 1				
			4.00	DSF CRP	KG 1				
In-line engine,diesel, TS80		80.00	2.50	R CRP	KG 1	22708003-00	STD		
			2.50	M P	LG 1				
			2.50	M P	LG 1				
			4.00	G P	LG 1				
In-line engine,diesel, 2001, 2010, 2020, F37D, F20D, F42D, F215 729351-22500		82.00	2.00	R CRP	KG 1	22708201-00	STD		
			2.00	M P	LG 1			22708201-07	+ 0.50
			4.00	DSF CRP	KG 1				
In-line engine,diesel, 		82.00	2.00	R CRP	KG 1	22708202-00	STD		
			2.00	R CR P	KG 1				
			4.00	DSF CR	KG 1				
In-line engine,diesel, 3JH3E-YEU 129002-22510, 129004-22500		84.00	2.00	R CR	KG 1	22708401-00	STD		
			2.00	M P	LG 1			22708401-07	+ 0.50
			4.00	DSF CRP	KG 1				
In-line engine,diesel, Tractors:3000, 3110, 330, 336, 3810, 195 721252-22500		84.00	2.50	R CR	KG 1	22708402-00	STD		
			2.50	M P	LG 1				
			2.50	M P	LG 1				
			4.00	DSF CR	KG 1				
In-line engine,diesel, 		84.00	2.00	R CR	KG 1	22708403-00	STD		
			1.50	R IW CRP	KG 1				
			4.00	DSF CR	KG 1				

Make - Engine - Model				Ring type	Material	Powerseal No	Size	
	No	Ø mm.						
YANMAR Cont.								
In-line engine,diesel,		84.00	2.50	R CRP	KG 1	22708404-00 22708404-07	STD + 0.50	
			2.00	M P	LG 1			
			4.00	DSF CR	KG 1			
In-line engine,diesel, TF-90E 705400-22503		85.00	2.50	R CRP	KG 1	22708501-00	STD	
			2.50	M IF P	LG 1			
			2.50	NM P	LG 1			
			4.00	DSF CRP	KG 1			
In-line engine,diesel, KAMA 186F		86.00	2.00	R CRP	KG 1	22708601-00 22708601-05 22708601-07	STD + 0.25 + 0.50	
			2.00	M IF P	LG 1			
			4.00	DSF CRP	KG 1			
In-line engine,diesel, TF-110ME 705500-22500		88.00	2.50	R CRP	KG 1	22708801-00	STD	
			2.50	M P	LG 1			
			2.50	NM P	LG 1			
			4.00	DSF CRP	KG 1			
In-line engine, diesel, 1.6l 3TNE88, 3TNV88 2.2l 4TNE88, 4TNV88	3	88.00	2.00	R CR	KG 1	22708802-00 22708802-07 22708802-11	STD + 0.50 + 1.00	
			2.00	M P	LG 1			
			4.00	DSF CR	KG 1			
	4							
In-line engine, diesel, S40		88.00	2.50	HK CR P	KG 1	22708803-00	STD	
			2.00	M P	LG 1			
			4.00	DSFST CR	ST			
In-line engine,diesel, YANMAR TRACTOR 2200, 2700. 724550-22501		90.00	2.50	R CRP	KG 1	22709001-00	STD	
			2.50	M P	LG 1			
			2.50	M P	LG 1			
			4.50	DSF CRP	KG 1			
In-line engine,diesel, YANMAR TRACTOR 2000, RED, 2210. 724763-22500		90.00	2.50	R CRP	KG 1	22709002-00	STD	
			2.50	M P	LG 1			
			2.50	M P	LG 1			
			4.00	DSF CRP	KG 1			
In-line engine,diesel, TS 130		92.00	2.50	R CRP	KG 1	22709201-00	STD	
			2.50	M IF P	LG 1			
			2.50	NM P	LG 1			
			4.00	DSF CR	KG 1			

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
YANMAR Cont.							
In-line engine, diesel, 4TNE92	92.00	2.00	HK CR P	ST	22709202-00	STD	
		2.00	M CR P	KG 1			
		3.00	DSFST CR	ST			
In-line engine, diesel, KAMA 192F	92.00	2.00	R CR	KG 1	22709203-00 22709203-05 22709203-07	STD + 0.25 + 0.50	
		2.00	M P	LG 1			
		3.50	DSF CR	KG 1			
In-line engine,diesel, YM3129901-22050	94.00	2.00	HK CR	ST	22709401-00 22709401-07	STD + 0.50	
		2.00	M P	LG 1			
		3.00	DSFST CR	ST			
In-line engine,diesel, TS 155 704700-22500	95.00	2.50	R CRP	KG 1	22709501-00	STD	
		2.50	M P	LG 1			
		2.50	NM P	LG 1			
		4.50	S P	LG 1			
In-line engine,diesel, YM129903-22050	98.00	2.00	HK CR	ST	22709801-00 22709801-07 22709801-11	STD + 0.50 + 1.00	
		2.00	NM P	LG 1			
		3.00	DSFST CR	ST			
In-line engine,diesel, 	100.00	2.00	R CR	KG 1	22710001-00 22710001-07 22710001-11	STD + 0.50 + 1.00	
		2.00	M CR P	KG 1			
		3.00	DSFST CR	ST			
In-line engine, diesel, TS 180, NS 18	102.00	2.50	R CR	KG 1	22710201-00	STD	
		2.50	M P	LG 1			
		2.50	NM P	LG 1			
		4.50	DSF CR	KG 1			
In-line engine, diesel, TS 230 705990-22500	112.00	2.50	R CRP	KG 1	22711201-00	STD	
		2.50	M P	LG 1			
		2.50	NM P	LG 1			
		4.50	D CR	KG 1			
In-line engine, diesel, 703204-22500	140.00	4.00	R CR P	KG 1	22714001-00	STD	
		3.00	M CR P	LG 1			
		3.00	M IW P	LG 1			
		6.00	D CR P	KG 1			



Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					



YANMAR Cont.



In-line engine, diesel, 703203-22500	145.00	4.00	R CR P	KG 1	22714501-00	STD
		4.00	R CR P	KG 1		
		4.00	M IW P	LG 1		
		6.00	D CR P	KG 1		
In-line engine, diesel, 703203-22500	170.00	4.00	R CR P	KG 1	22717001-00	STD
		3.50	M IW CR P	KG 1		
		3.50	NM P	LG 1		
		6.00	DSF CR P	KG 1		

ZETOR

In-line engine, diesel, 1.6l 2001 Vehicle: 2011, 2013, 2017	2	95.00	3.00	R CR	KG 1	23009500-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
			5.00	DSF CR	KG 1		
2.3l 3001 Vehicle: 3011, 3013, 3016	3						
3.1l 4011 Vehicle: 4011, 4511	4						
4.7l 5501 Vehicle: 5511, 5516, 5545	6						

Make - Engine - Model				Ring type	Material	Powerseal No	Size			
	No	Ø mm.								
ZETOR Cont.										
In-line engine, diesel, 1.6l 2001 Vehicle: Traktor 2.3l 3001 Vehicle: Traktor 3.1l 4001 Vehicle: Traktor 4.7l 5501 Vehicle: Traktor	2	95.00	3.00	R IF CR	KG 1	23009501-00	STD			
			3.00	M P	LG 1					
			3.00	NM P	LG 1					
	3		5.00	DSF CR	KG 1					
			5.00	D P	LG 1					
	4									
	6									
In-line engine, diesel, 2.6l 4701 Vehicle: Tractor 4711,5945,6718 3.5l 6701 Vehicle: Tractor	3	100.00	3.00	R CR	KG 1	23010001-00	STD			
			3.00	M P	LG 1					
			3.00	NM P	LG 1					
	4		5.00	DSF CR	KG 1					
			5.00	G P	LG 1					
	4									
	In-line engine, diesel, 2.6l 4701 Vehicle: Tractor 4711,4712, 4718, 5911, 5945,6711, 6718, 6745 3.5l 6701 Vehicle: Tractor	4	100.00	3.00	R CR			KG 1	23010002-00	STD
3.00				M P	LG 1					
3.00				NM P	LG 1					
4			5.00	DSF P	LG 1					
4										
In-line engine, diesel, 2.6l 4701 Vehicle: Tractor 4711,4712, 4718, 5911, 5945,6711, 6718, 6745 3.5l 6701 Vehicle: Tractor		4	100.00	3.00	R CR P	KG 1	23010003-00	STD		
	3.00			M P	LG 1					
	5.00			DSF CR P	KG 1					
	4									
	In-line engine, diesel, 2.6l 4701 Vehicle: Tractor 4711,4712, 4718, 5911, 5945,6711, 6718, 6745 3.5l 6701 Vehicle: Tractor	4	100.00	3.00	R CR P	KG 1			23010004-00	STD
				3.00	M P	LG 1				
				3.00	M P	LG 1				
		4		5.00	DSF CR P	KG 1				
4										

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ZETOR Cont.							
In-line engine, diesel, 2.7l 5201 Vehicle: 5211, 5245	3	102.00	3.00	R CR	KG 1	23010200-00	STD
			3.00	M P	LG 1		
3.6l 7201, 7701 Vehicle: 7711, 7745	4		5.00	DSF CR	KG 1		
In-line engine, diesel, 2.7l 4901 Vehicle: 4911, 4945, 5201 5211, 5245 engine-no. 024 976	3	102.00	3.00	R CR	KG 1	23010201-00	STD
			3.00	M P	LG 1		
3.6l 6901 Vehicle: 6211, 6911, 6245, 6945, 7211, 7201, 7011, 7045 engine-no. 041 868	4		3.00	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 3.4l GM 01 Vehicle: 8001, 8401	3	110.00	3.00	R CR	KG 1	23011000-00 23011000-07	STD + 0.50
			3.00	NM P	LG 1		
4.6l GZ 01, 8001 Vehicle: 8011, 8045	4		6.00	DSF CR	KG 1		
6.8l 8601 Vehicle: 8611, 12011, 12045, 12145	6						

Make - Engine - Model				Ring type	Material	Powerseal No	Size
	No	Ø mm.					
ZETOR Cont.							
In-line engine, diesel, 3.4l GM 01 Vehicle: 8001, 8401	3	110.00	3.00	R CR	KG 1	23011001-00	STD
			3.00	M P	LG 1		
			3.00	NM P	LG 1		
4.6l GZ 01, 8001 Vehicle: 8011, 8045	4		6.00	DSF CR	KG 1		
6.8l 8601 Vehicle: 8611, 12011, 12045, 12145	6						
In-line engine, diesel, 4.6l 8401 Vehicle: Traktor 8111,8145,9111,9145, 10111,10145,12111,12145, 14145,16145	4	110.00	3.00	T CR P	KG 1	23011002-00	STD
			3.00	M P	LG 1		
			6.00	DSF CR	KG 1		
4.6l 8402	4						
6.8l 8602	6						
6.9l 8701	6						
ZETTI							
In-line engine, diesel, 6.6l 4VD 14.5, 12-1 SRW Vehicle: IFA W 50	4	120.00	3.00	R CR	KG 1	23112001-00	STD
			3.00	M P	LG 1		
			5.00	DSF CR	KG 1		
In-line engine, diesel, 6.6l 4VD 14, 5/12 1 SRW Vehicle: Tractor ZT300, 303, 304, IFA W 50	4	120.00	3.50	R IF CR P	KG 1	23112002-00	STD
			3.50	M IF P	LG 1		
			5.00	DSF CR	KG 1		
6.6l 4VD 14, 5/12 1 SRW Vehicle: Industrie Motor	4						

