



SINCE **1998**

OIL SEAL INTRODUCTION

Shanghai MaiZhiHua Sealing Element Co., Ltd.



BUSINESS PHILOSOPHY :

To be honesty

Take the win-win of customers as the goal

Pursue the zero defect of quality as the purpose

All staffs work together to build the "MZH" brand



QUALITY POLICY :

Guarantee the quality of the product and the service

Provide effective seal

Continuous improvement for quality and system



CONTENT

P 01

ABOUT US

Company Introduction
Factory Equipment

P 03

PRODUCT

P 07

TECHNOLOGY

Rubber Material Oil Seal Type
Tolerance Dimension Ditch Type
Assembly

P 17

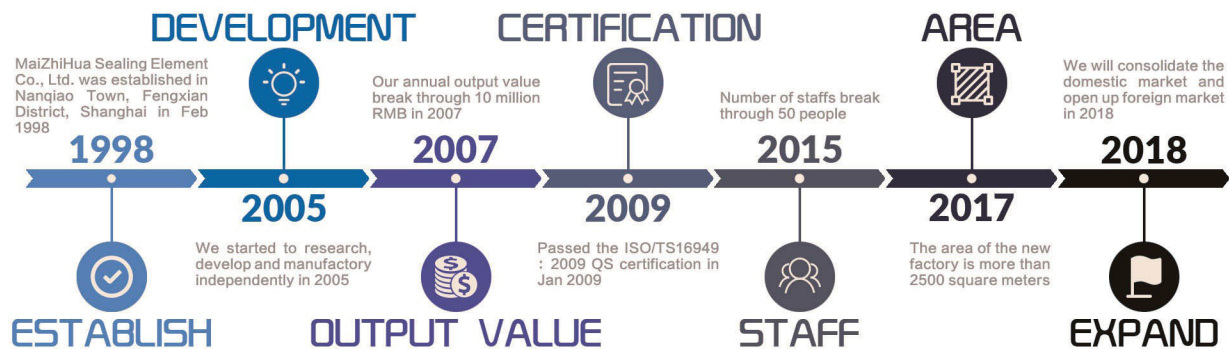
SIZE TABLE



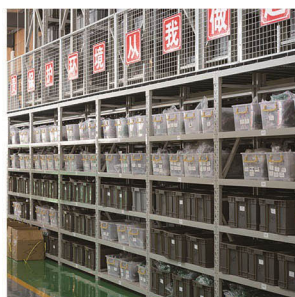
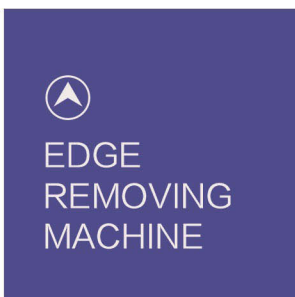
ABOUT US

Shanghai MaiZhiHua Sealing Element Co.,Ltd. was founded in February 1998 in Nanqiao Town, Shanghai. MZH is specialized in the production, sale and development of skeleton oil seals, O-ring for parts of the automotive air conditioner and household air conditioner (Suitable refrigerants are R134a, R410a, R407c, R404, R22, R12), various types of automotive air conditioner compressor shaft seal and rubber parts. MZH has adopted the ASTM D2000-98C international standard and QC/T666.1-2010 national standard, and passed the ISO/TS16949:2009 quality management system certification in January 2009. They ensure the superiority, stability and consistency of MZH's products and lay the foundation for further broadening the domestic and international markets.

At present, MZH's oil seal, O-ring and rubber parts are used in the car chassis drive series (Such as axle, transfer case, gearbox, engine), car parts series (Such as starter, generator, force amplifier, resistance steering pump, water pump, motor, steering gear, gas spring), agricultural vehicle anti-mud series, O-ring for automotive air conditioner parts (Such as traditional compressor, new energy electric drive compressor, piping, expansion valve, evaporator, condenser, liquid storage tank). In the industrial field, they are used in the reducer series, garden machinery series, construction machinery series, wind power generation gearbox series, cleaning machine series, washing machine series and electronic products.



EQUIPMENT



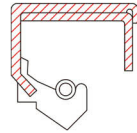


TYPE A

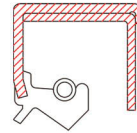
- A combination of steel design in order to strengthen the rigidity of the oil seal.
- Suitable for larger size.



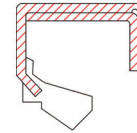
OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



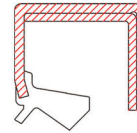
SA



TA



VA



KA

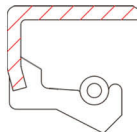


TYPE B

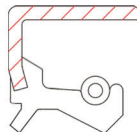
- High requirements for the roughness of assembly environment.
- Good stability and suitable for steel and cast iron.



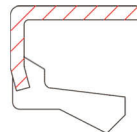
OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



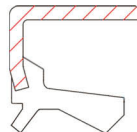
SB



TB



VB



KB

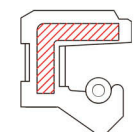


TYPE C

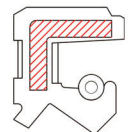
- Outer rubber can ensure the sealing of outer diameter.
- Suitable for various kinds of materials.



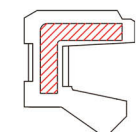
OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



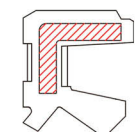
SC



TC



VC



KC

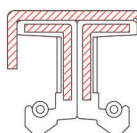


TYPE D

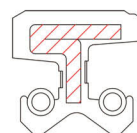
- Both sides are fitted with springs.
- Two kinds of sealed liquids can be isolated.



OD	Temperature	Pressure	Speed
15-790mm	-55°C~225°C	≤0.3bar	≤10m/s



DA



DC

DIAGRAM



=Rotating



=Reciprocating



=Swing



=Statics

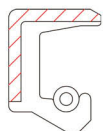


TYPE F

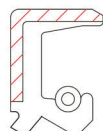
- Iron shell with chamfer.
- The inner rubber protects the iron shell from being attacked by the sealed liquid.



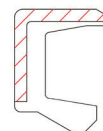
OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



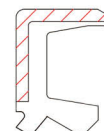
SBF



TBF



VBF



KBF

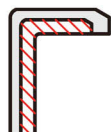


TYPE G (Gearbox oil seal)

- Can be used as a plug in static situation.
- The outside is covered by rubber.



OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	-



GC



TYPE O

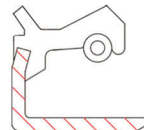
- Sealing lip on the outside.



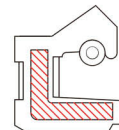
OD	Temperature	Pressure	Speed
10-790mm	-40°C~200°C	≤0.3bar	≤10m/s



OTA



OTB



OSC



OTC

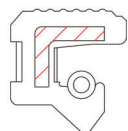


TYPE V

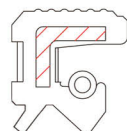
- The outer ring has rubber groove.
- Easy to assemble and especially suitable for assembling holes with high thermal expansion coefficient.



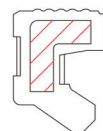
OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



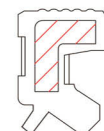
SCV



TCV

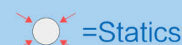


VCV



KCV

DIAGRAM





TYPE Z

- The chamfer is covered by the internal rubber which can improve the sealing performance of the outer diameter.



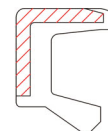
OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



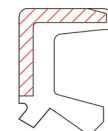
SBZ



TBZ



VBZ



KBZ



TYPE 4 (Tensioner oil seal)

- The semi-circular design of the auxiliary lip can reduce friction and prevent the lip from being deformed.



OD	Temperature	Pressure	Speed
10-790mm	-30°C~100°C	≤6.5bar	≤1.5m/s



TC4



TC4Y

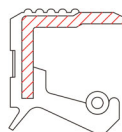


TYPE 04

- High sealing ability, suitable for rough assembly holes.
- Half of the outer ring is covered with rubber.



OD	Temperature	Pressure	Speed
20-500mm	-55°C~225°C	≤0.3bar	≤10m/s



TC04R

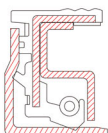


TYPE AEX (Agricultural machinery oil seal)

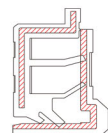
- Suitable for high pollution environment.
- Installation and replacement will not cause damage to the shaft and box.



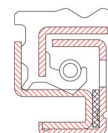
OD	Temperature	Pressure	Speed
30-300mm	-40°C~200°C	≤0.3bar	≤3.5m/s



AP1



AP2



AP3

DIAGRAM



=Rotating



=Reciprocating



=Swing



=Statics

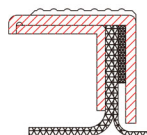


TYPE PTFE (Teflon seal)

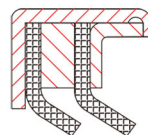
- With back groove design.
- Excellent chemical resistance, high temperature resistance and low coefficient of friction.



OD	Temperature	Pressure	Speed
15-300mm	-50°C~250°C	≤3bar	≤30m/s



PT1



PT2

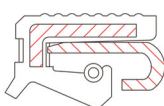


TYPE TCAY

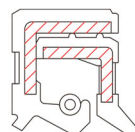
- Suitable for washing machines, sealing water and washing liquid.



OD	Temperature	Pressure	Speed
15-200mm	-30°C~100°C	-	≤5m/s



TCAY



TCAY3



TYPE VA

- Protect bearings and seals for use in dirty environments.



OD	Temperature	Pressure	Speed
5.5-790mm	-40°C~100°C	-	≤10m/s



VA



TYPE VB07

- The outer ring has a flange design, which is convenient for replacement and installation.
- Special design can increase the strength of the steel.



OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



VB07

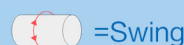
DIAGRAM



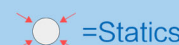
=Rotating



=Reciprocating



=Swing



=Statics



Automobile clutch release bearing oil seal

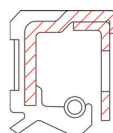
- Resistance to wear and long service life.
- The unique design can minimize noise and vibration.



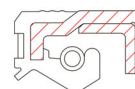
OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



TBY



TA04Y



TA04Y2

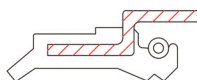


MULTI LIP

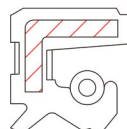
- The special multi-lip design can provide better dustproof effect.



OD	Temperature	Pressure	Speed
10-790mm	-55°C~225°C	≤0.3bar	≤10m/s



TC7



TCN

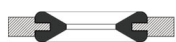


WS/KDS BONDED SEAL

- A static seal used between a nut and a nut.



OD	Temperature	Pressure	Speed
8-50mm	-40°C~200°C	-	-



WS



WS1



O-RING BOX

- Various standards of box can be produced.
- The standard hardness is 70A. Customizable.

OD	Temperature	Pressure	Speed
5.5-790mm	-55°C~225°C	-	-

SPECIAL TYPE PRODUCT



ECO OIL SEAL



HUAJING 11T



YORK 786114



BPW 12T



BPW 800



GREASE LUBRICATED OIL SEAL



OIL LUBRICATED OIL SEAL



STARTER OIL SEAL

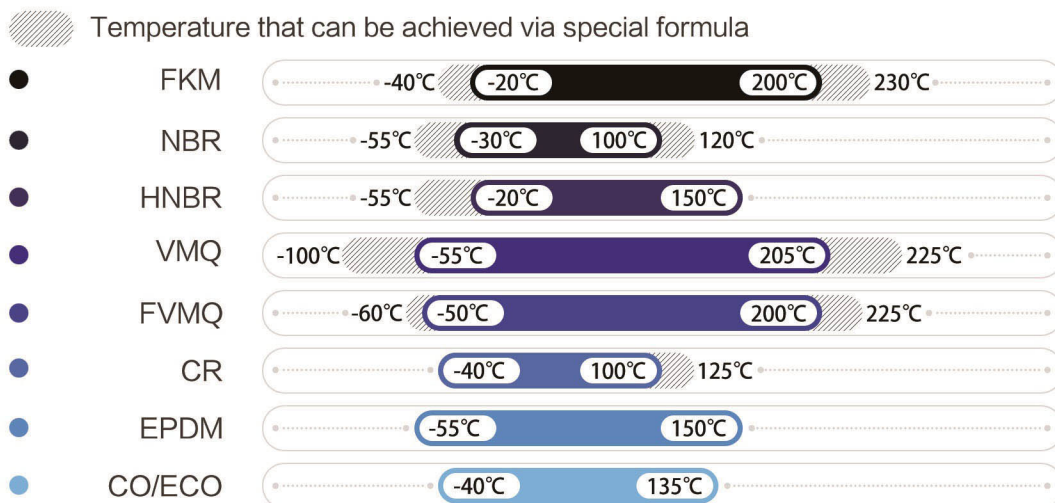


STEERING PUMP OIL SEAL

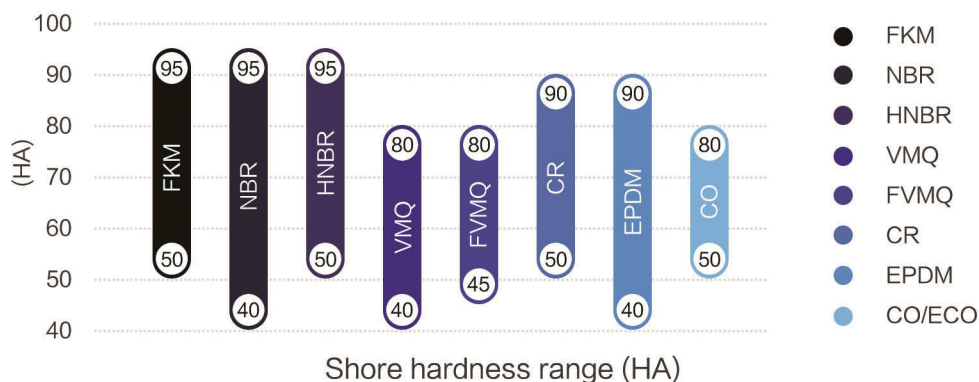
RUBBER MATERIAL

Chinese Name	English Name	Abbreviation
氟橡胶	Fluorine Rubber	FKM
丁晴橡胶	Nitrile-butadiene Rubber	NBR
氢化丁晴橡胶	Hydrogenated Nitrile-butadiene Rubber	HNBR
硅橡胶	Silicon Rubber	VMQ
氟硅橡胶	Fluorosilicone Rubber	FVMQ
氯丁橡胶	Chloroprene Rubber	CR
三元乙丙橡胶	Ethylene Propylene Diene Monomer	EPDM
氯醇橡胶	Epichlorohydrin Rubber	CO/ECO/GECO

Common Rubber Material Table



Applicable temperature range table



Shore hardness range (HA)

	BRIEF	APPLICATION
FKM	High temperature resistance, most oil and solution resistant (except Ketone and Ester), chemical resistance, weather resistance and ozone resistance	<ol style="list-style-type: none"> 1. Engine for automotive, diesel and aircraft, and their fuel system 2. Chemical industry
NBR	<p>The higher the content of ACN, the better the resistance of mineral oil and fuel, but the worse the low temperature performance.</p> <p>Low cost and wide use.</p>	Hydraulic industry, nuclear power plant sealing and various oil resistant occasions
HNBR	<p>Heat resistance, cold resistance, weather resistance, ozone resistance, fuel and alcohol based fuel resistance are better than NBR.</p> <p>Excellent corrosion resistance, anti dilation, tearing resistance and anti compression deformation .</p>	<ol style="list-style-type: none"> 1. Automotive engine system seal 2. Refrigerant (such as R134a, 440a, 407c and etc) seal
VMQ	<p>Excellent heat resistance, cold resistance, oxidation and ozone resistance, good electrical insulation.</p> <p>Poor steam resistance and oil resistance.</p>	<ol style="list-style-type: none"> 1. Electronic products, electronic parts 2. Aviation industry 3. Medical apparatus and instruments
FVMQ	<p>Have the advantage of FKM and VMQ.</p> <p>Good oil resistant, solvent resistance and high and low temperature resistance.</p>	<ol style="list-style-type: none"> 1. Fuel system for automotive engine and jet engine 2. Parts of the space aircraft
CR	<p>Good elasticity, fire resistance, chemical resistance and weather resistance.</p> <p>Bad at low temperature resistance and storage stability.</p>	<ol style="list-style-type: none"> 1. Rubber parts and sealing rings on electrical appliances. 2. Rubber products exposed to air
EPDM	<p>Good weather resistance, ozone resistance and insulation. Excellent ageing resistance, chemical resistance and steam resistance.</p> <p>Slow vulcanization and bad self viscosity and mutual viscosity.</p>	<ol style="list-style-type: none"> 1. High temperature steam situation 2. Auto parts and industrial products 3. Construction materials
CO/ECO	<p>Heat resistance is better than NBR. Good ozone resistance and electrical conductivity.</p> <p>Poor steam resistance and oil resistance.</p> <p>The alkali resistance is poor, and it is easy to deform when compressing.</p>	Automotive industry

SPRING AND METAL

SPRING

The function of the spring is to provide force to the lip of the oil seal and prolong the service life of the oil seal, and to change the proper spring force according to the speed and eccentricity of the shaft.

METAL

Metal can enhance compacting force and can make the oil seal completely embedded in the tank.

Application table for material of rubber and metal

SEALED OBJECT	SPRING			METAL		
	Carbon steel	Stainless steel		Carbon steel	Stainless steel	
	AISI1070/1080	AISI30304	AISI30316	AISI1070/1080	AISI30304	AISI30316
Lubricant	○	○	○	○	○	○
Water	×	○	○	×	○	○
Steam	×	○	○	×	○	○
Seawater	×	×	○	×	×	○
Acid	×	×	○	×	×	○
Alkali	×	○	○	×	○	○

TOLERANCE OF STANDARD SKELETON OIL SEAL

According to the DIN, JIS standard

Internal diameter tolerance table

Unit : mm

Internal diameter	Without spring	Tolerance (+/-)	With spring	Tolerance (+/-)
6.01-10.00	-0.60	0.10	-0.90	0.2
10.01-18.00	-0.70	0.10	-1.00	0.2
18.01-30.00	-0.80	0.10	-1.10	0.2
30.01-50.00	-0.90	0.15	-1.40	0.3
50.01-80.00	-1.10	0.15	-1.60	0.3
80.01-120.00	-1.30	0.15	-1.80	0.3
120.01-180.00	-1.50	0.15	-2.00	0.3
180.01-250.00	-1.60	0.20	-2.20	0.4
250.01-315.00	-1.80	0.20	-2.40	0.4
315.01-400.00	-2.00	0.20	-2.60	0.4
400.01-500.00	-2.20	0.20	-2.80	0.4

Outer diameter tolerance and allowable eccentricity

Outer diameter	Enlarging size		Eccentricity
	Metal shell	Rubber shell	
≤50.00	0.10-0.20	0.15-0.30	<0.25
50.01-80.00	0.13-0.23	0.20-0.35	<0.35
80.01-120.00	0.15-0.25	0.20-0.35	<0.50
120.01-180.00	0.18-0.28	0.25-0.45	<0.65
180.01-315.00	0.20-0.30	0.25-0.45	<0.80
315.01-500.00	0.23-0.35	0.30-0.55	<1.00

Height tolerance table

Height	Tolerance
≤10.00	+/- 0.20
>10.00	+/- 0.30

ASSEMBLY REQUIREMENTS

SHAFT REQUIREMENTS

In order to improve the sealing performance of the oil seal and increase its service life, the machining of the shaft must meet the following conditions:

1. SHAFT MATERIAL

Carbon steel or stainless steel is the best material for the shaft. Heat treatment and nitridation is the necessary process flow. If used in the water sealing with low speed, stainless steel can be selected.

2. SHAFT SURFACE HARDNESS

The life of the oil seal depends on the surface hardness of the contact area with the shaft. The surface hardness of the shaft which contact with the main lip of the oil seal should be more than 45HRC. When it is not sure whether the lubrication effect is good or not, or the shaft speed is more than 14m/s, the hardness should better than 55HRC. If the shaft is stiffened only at the surface, the minimum depth should be more than 0.3mm, and the shaft surface needs to be grinded if it is treated with nitriding.

3. SHAFT SURFACE ROUGHNESS

The surface roughness of the shaft is recommended as follows:

Rotating shaft : 0.25 μ m ~ 0.50 μ m (Ra)

Reciprocating shaft : 0.13 μ m ~ 0.25 μ m (Ra)

The roughness of the shaft directly affects the temperature of the lip, so this finish machining can not be ignored.

4. SHAFT GRINDING

Rotating shaft : According to the seal condition, the shaft must be grinded to the specified surface roughness.

Reciprocating shaft : Must use centerless grinding

Hard chromium plating is recommended for cast iron or steel shaft for rotating or steel shaft for reciprocating. After grinding, the shaft can't have whorl which can be tested by eye or fingernail. Otherwise, additional pump effect will be generated when the shaft rotates, and make the oil seal away from the sealing point then cause spilling.

5. SHAFT DIAMETER TOLERANCE

Acceptable tolerance range table

S.D. (inch)	Tolerance(inch)	S.D. (mm)	Tolerance(mm)
Less than 4.000	+/- 0.003	Less than 100	+/- 0.08
4.001 - 6.000	+/- 0.004	100.01 - 150.00	+/- 0.10
6.001 - 10.000	+/- 0.005	150.01 - 250.00	+/- 0.13

As the speed increases or the pressure increases, the allowable tolerance range of the shaft must be reduced. Please contact our service staff at this time.

Reference speed of standard shaft (Take NBR as an example)

Unit : mm

Oil seal with spring			Oil seal without spring		
S.D.	Maximum CRSS*	Maximum SC [^]	S.D.	Maximum CRSS*	Maximum SC [^]
15	7000rpm	0.10	15	3500rpm	0.07
40	6000rpm	0.15	40	2500rpm	0.12
65	4000rpm	0.25	65	2100rpm	0.15
90	3500rpm	0.33	90	1800rpm	0.20
115	2600rpm	0.43	115	1200rpm	0.25

NOTICE: 1. If use the material with higher temperature resistance (eg VMQ, FKM), it can be used in the higher speed of continuous rotating shaft.

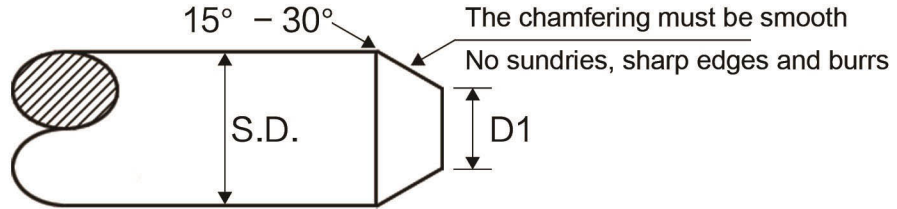
2. If the maximum speed of continuous rotating shaft is reduced, it can support higher shaft centrifugation.

* CRSS : Continuous rotating shaft speed

[^] SC : Shaft centrifugation

6. SHAFT CHAMFERING

If there is no proper chamfering on the shaft, the seal lip may be damaged when the oil seal is assembling, or causes the spring to jump out of the spring ditch. So we suggest that the shaft chamfering is selected in accordance with the data in the following table.



Recommended shaft chamfering Unit : inch

S.D.	D1
Less than 1.000	S.D. - 0.094
1.001 - 2.000	S.D. - 0.140
2.001 - 3.000	S.D. - 0.166
3.001 - 4.000	S.D. - 0.196
4.001 - 5.000	S.D. - 0.220
5.001 - 6.000	S.D. - 0.260
6.001 - 10.000	S.D. - 0.276

Recommended shaft chamfering Unit : mm

S.D.	D1
Less than 25.00	S.D. - 2.4
25.01 - 50.00	S.D. - 3.6
50.01 - 75.00	S.D. - 4.2
75.01 - 100.00	S.D. - 5.0
100.01 - 125.00	S.D. - 5.6
125.01 - 150.00	S.D. - 6.6
150.01 - 250.00	S.D. - 7.0

CAVITY REQUIREMENTS

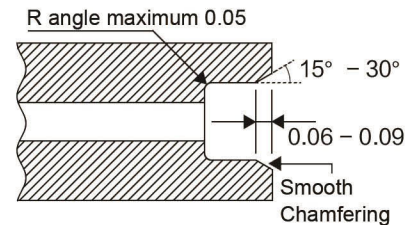
The processing of the cavity is recommended in accordance with the following requirements:

1. CAVITY MATERIAL

The oil seal with rubber outside is suitable for the cavity of steel, cast iron, soft alloy, aluminum alloy, rubber or nylon. The oil seal with metal outside is suitable for the steel and cast iron cavity.

2. CAVITY CHAMFERING

In order to assemble conveniently, the cavity must be chamfered. If the chamfering is not complete or no chamfering, the oil seal may be damaged or may need more power to assemble.



3. CAVITY SURFACE ROUGHNESS

The rough cavity may leave a gap that causes the liquid to leak between the outer diameter of the oil seal and the cavity.

Acceptable maximum roughness

	Metal outside	Rubber outside
Maximum Surface Roughness	100 μ inch 2.5 μ m	150 μ inch 3.75 μ m

4. CAVITY TOLERANCE

Tolerance range (inch)

Cavity ID	Tolerance(+/-)
Less than 3.000	0.0010
3.001 - 6.000	0.0015
6.001 - 10.000	0.0020
10.001 - 20.000	0.002 - 0.004
20.001 - 40.000	0.002 - 0.006
40.001 - 60.000	0.002 - 0.010

Tolerance range (mm)

Cavity ID	Tolerance(+/-)	Cavity ID	Tolerance(+/-)
6.01 - 10.00	0.022	120.01 - 180.00	0.063
10.01 - 18.00	0.027	180.01 - 250.00	0.072
18.01 - 30.00	0.033	250.01 - 315.00	0.081
30.01 - 50.00	0.039	315.01 - 400.00	0.089
50.01 - 80.00	0.046	400.01 - 500.00	0.097
80.01 - 120.00	0.054		

ASSEMBLY ATTENTION

1. Check the oil seal before assembly to confirm whether the oil seal is clean or not and whether it's damaged. If the oil seal has spring, please check whether the spring is installed correctly.
2. Please apply clean grease on the lip of the oil seal. If the oil seal is used to prevent dust, the lip must be applied with grease. Besides, if the oil seal has two lips, they must be applied with high quality grease to make a good barrier layer between the two sealed media.
3. Confirm whether the direction of the installation is correct, whether the lip side (or with the spring side) is faced to the sealed liquid.
4. During the installation process, even the oil seal suffer form minor stroke and scratching, you must check whether the lip is damaged, whether the spring is in the right place, and confirm whether the oil seal is properly installed.
5. Because the cavity has weight, after the oil seal is loaded into the cavity, it is strictly prohibited to leave the oil seal on the shaft before assembly or during the assembly process, so that the lip will be compressed (even for a second) and make the seal failure. It will be a fatal damage to a rubber seal.
6. The installation of oil seal can be divided into "first loaded on the shaft, then loaded into the cavity" and "first loaded into the cavity, then on the shaft." If the condition is allowed, we suggest using the first way which can observe the process of installing the oil seal into the shaft.
7. All burrs must be removed from the shaft, and the edge of the shaft must be grinded or chamfered. If these finish machining can't be executed, please use shaft sleeve (the diameter should be larger than the shaft diameter) when installing, otherwise, if the lip of the oil seal is damaged when installing, it will cause the seal failure.
8. When installing the oil seal into the cavity, we suggest using suitable tool and using oil pressure equipment to install. The external diameter of the tool should be 0.1-0.4mm smaller than the inner diameter of the cavity to ensure that the oil seal can be completely pressed into the cavity.

KEY POINT OF LEAKAGE TREATMENT

If leak, please confirm the leak location and then deal with it according to various phenomena. If necessary, you can work with our service staff to find out the reasons and solve them .

DETERMINE LEAKAGE

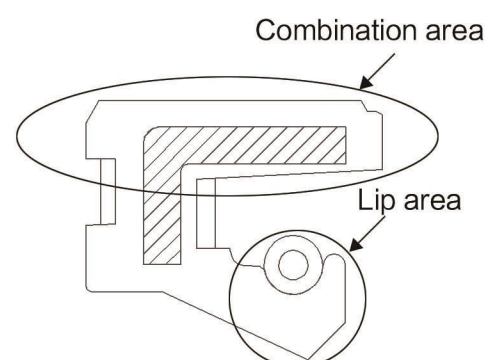
1. INTERNAL LEAKAGE OR LEAKAGE

The leak location can divided to lip area (internal leakage) and combination area (external leakage)

2. NOT SEALING FAILURE

May be the following reasons:

- (1) Shim, clamp screw and mechanical part become deformed.
- (2) The mechanical parts are cracked or depressions.
- (3) The lubricating grease become thin because of heating-up then make the oil seal leave the right position.

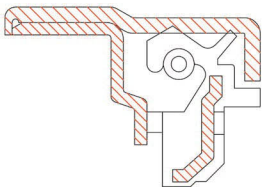
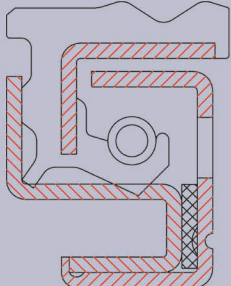
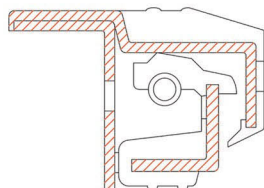
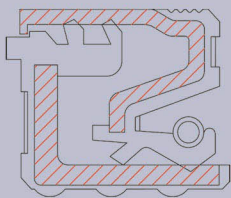
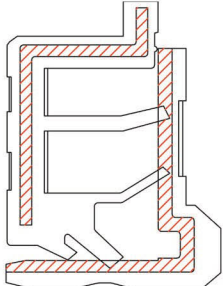
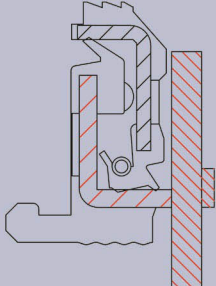
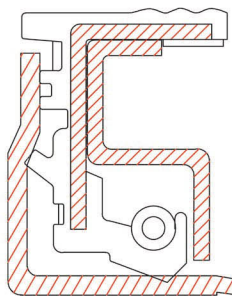


FIND OUT THE ABNORMALITY

After confirm it is't non sealed failure, do not remove the oil seal, keep the original pattern and contact with our service staff immediately to find out the reason and solve it. If remove the oil seal immediately, the lip or the outer diameter may be damaged and make misjudgment of the cause of sealing failure.

Leakage reason		Cause analysis
Internal leakage	Lip excessive wear	Lack of lubrication, foreign objects, large internal pressure or large shaft roughness
	Lip partial wear	Eccentric installation or slanting installation
	Lip harden	High working temperature, lack of lubrication or large internal pressure
	Lip softening	Improper material of lip
	Lip damage	Bad installation, bad shaft chamfering or has foreign objects
	Lip turnover	Bad installation, bad shaft chamfering, or large internal pressure
	Loin of lip damage	Bad installation or large internal pressure
	Spring fall off	Bad installation or bad shaft chamfering
	Deformation	Bad installation
Leakage	No abnormalities	Shaft damage, shaft direction problem, shaft eccentricity or reverse installation
	Oil seal tilt	Small inner diameter of the cavity, bad shaft chamfering, or the tool is not suitable
	Deformation	The tool is not suitable
	No abnormalities	Shaft damage or the inner surface of the cavity is too rough
	Outer diameter extrusion	The outer diameter of the oil seal is not matched with the inner diameter of the cavity or the cavity chamfering is too small

AXLE OIL SEALS FOR FARM VEHICLES AND ENGINEERING CARS TYPE TABLE

York	Fuhua 13T,16T,20T	Anlian	Farm machinery
			
Farm machinery	BPW800	Oil lubricated	
			

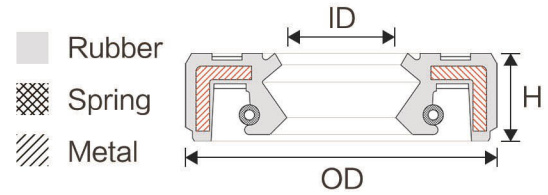
TYPE OF OIL BACK GROOVE

TYP	DIAGRAM	LIP	TYP	DIAGRAM	LIP	TYP	DIAGRAM	LIP
W			W8			W19		
W1			W9			W20		
W2			W10			R		
W3			W11			R1		
W4			W12			R2		
W5			W13			R3		
W6			W14			R4		
W7			W18			R5		

OIL SEAL SIZE TABLE

TYPE TC SIZE TABLE

Unit : mm






NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M011077	TC	5	13	5	M010178	TC	12	25	10	M010517	TC	17	25	6
M010576	TC	6	16	7	M010556	TC	12	26	7	M010188	TC	17	25	4
M011053	TC	6	16	6	M010739	TC	12	26	5.5	M010710	TC	17	26	5
M010798	TC	6	16	6.5	M011037	TC	12	26	4	M010566	TC	17	27	6
M011050	TC	6	19	5	M010180	TC	12	28	7	M010567	TC	17	28	7
M010577	TC	6	19	7	M010711	TC	12	28	6	M010191	TC	17	30	10
M010578	TC	6	22	7	M010557	TC	12	30	7	M010882	TC	17	30	7
M012035	TC	6	15	5	M010903	TC	12	32	7	M010808	TC	17	30	5
M010095	TC	7	16	7	M010003	TC	13	22	4	M010026	TC	17	30	8
M010579	TC	7	16	7	M010091	TC	14	22	5/7	M012097	TC	17	30/37	6/8
M010749	TC	7	18	7	M010558	TC	14	24	5	M010192	TC	17	32	8
M012086	TC	7	20	6	M010181	TC	14	24	7	M010190	TC	17	35	10
M010580	TC	7	22	7	M010637	TC	14	25	5.5	M010189	TC	17	35	7
M011051	TC	7.2	18	7	M010331	TC	14	30	7	M010568	TC	18	30	7
M011055	TC	7.2	26	6	M010774	TC	14	32	7	M010504	TC	18	30	8
M010176	TC	8	14	4	M010559	TC	14	35	7	M012002	TC	18	30	7
M011018	TC	8	15	6	M010899	TC	14.8	30	5	M010061	TC	18	30	6.5/8
M011003	TC	8	15/17.5	12/14	M010898	TC	15	22	5	M010017	TC	18	30	10
M010038	TC	8	16	7	M012076	TC	15	22	4	M010569	TC	18	32	7
M010784	TC	8	16	4	M010045	TC	15	24	5	M010424	TC	18	33	6
M010032	TC	8	18	5	M010892	TC	15	24	5	M010025	TC	18	35	7
M010115	TC	8	22	7	M010184	TC	15	24	7	M010616	TC	18	35	7
M010560	TC	8	24	7	M010618	TC	15	25	5	M010570	TC	18	35	10
M010383	TC	8	28	5	M010182	TC	15	25	7	M010202	TC	18	40	10
M010107	TC	9	17	4.5	M012072	TC	15	25	4	M010836	TC	18.5	32	7
M010897	TC	10	16	4	M010182	TC	15	25	7	M010753	TC	18.5	35	7
M010614	TC	10	17	5	M010638	TC	15	26	7	M010979	TC	18.8	30	5/6
M010677	TC	10	18	4	M010561	TC	15	27	7	M010598	TC	19	27	4
M010548	TC	10	18	6	M012039	TC	15	28	7	M010571	TC	19	32	7
M010404	TC	10	19	5	M010786	TC	15	28	4.5	M010355	TC	19	32	6/7
M011029	TC	10	20	5	M010157	TC	15	30	7	M010372	TC	19	32	7
M010581	TC	10	20	7	M010183	TC	15	30	10	M010572	TC	19	32	8
M011052	TC	10	21	5	M010760	TC	15	30	5	M010573	TC	19	35	7
M010549	TC	10	22	7	M010563	TC	15	32	8	M010633	TC	19.05	33.33	7.95
M010485	TC	10	22	8	M010562	TC	15	32	7	M010358	TC	19.05	34.6	6.3/7.3
M010550	TC	10	24	7	M010380	TC	15	35	10	M010435	TC	19.8	30	5
M010042	TC	10	25	7	M010787	TC	15	35	4.5	M011086	TC	20	26	4
M010002	TC	10	30	10	M010564	TC	15	40	10	M010574	TC	20	28	6
M010885	TC	11	22	6.5	M011013	TC	16	24	5	M010364	TC	20	30	7
M010459	TC	11	26	7	M010063	TC	16	24	6/6.5	M010890	TC	20	30	6
M010425	TC	11.8	28.5	4.5	M010765	TC	16	26	7	M010639	TC	20	30	7
M011043	TC	12	19	5	M010436	TC	16	26	5	M011083	TC	20	30	6.8/7.8
M010090	TC	12	20	5/7	M010001	TC	16	27	7	M010207	TC	20	30	5
M010388	TC	12	20	5	M010153	TC	16	28	7	M010206	TC	20	30	10
M010553	TC	12	22	7	M010187	TC	16	30	10	M010207	TC	20	30	5
M010552	TC	12	22	6	M010187	TC	16	30	10	M010818	TC	20	30	7
M010741	TC	12	22	5/5.5	M010111	TC	16	30	7	M010359	TC	20	30	5.5
M010777	TC	12	22	5	M010442	TC	16	32	6	M010575	TC	20	32	7
M011080	TC	12	24	6	M010020	TC	16	40	10	M010817	TC	20	32	5
M010554	TC	12	24	7	M010020	TC	16	40	10	M012102	TC	20	33	7
M012034	TC	12	25	5	M012096	TC	16.5	30	5.2	M010503	TC	20	35	5
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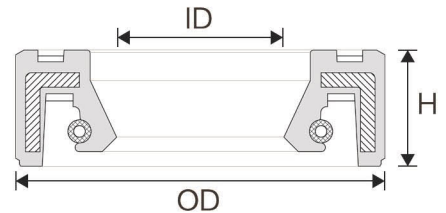
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M012003	TC	20	35	7	M010218	TC	25	45	10	M010469	TC	30	62	10
M010031	TC	20	35	8	M010834	TC	25	47	10	M010986	TC	31	41	7
M010208	TC	20	35	7	M010816	TC	25	47	5	M010982	TC	31	46	8
M010766	TC	20	36	7	M010219	TC	25	47	7	M010446	TC	31	50	8
M011049	TC	20	37	7	M010875	TC	25	48	5	M010565	TC	32	42	8
M012084	TC	20	37	3.5	M010040	TC	25	50	10	M010826	TC	32	44	6
M010767	TC	20	38	7	M010893	TC	25	52	6	M010800	TC	32	45	7
M010205	TC	20	40	10	M010220	TC	25	52	7	M010703	TC	32	45	10
M012077	TC	20	40	3.5	M010827	TC	25	52	5	M011017	TC	32	45	6
M010466	TC	20	40	6	M010128	TC	25	62	10	M010236	TC	32	46	8
M010974	TC	20	40	7	M010308	TC	26	35	5	M010234	TC	32	47	10
M011097	TC	20	40	8	M012045	TC	26	35.5	7	M010177	TC	32	47	7
M012069	TC	20	42	10	M011021	TC	26	36	7	M010237	TC	32	47	8
M010074	TC	20	42	7	M010199	TC	26	37	7	M010238	TC	32	48	8
M010204	TC	20	42	8	M010775	TC	26	40	5	M010239	TC	32	48	7
M010507	TC	20	42	5	M010755	TC	26	42	7	M010756	TC	32	50	8
M010501	TC	20	47	7	M010804	TC	26	42	8	M010065	TC	32	52	11
M010033	TC	20	52	10	M010080	TC	26	50	8	M010233	TC	32	52	7
M012092	TC	20	52	7	M011001	TC	27	37	7	M010240	TC	32	52	10
M012009	TC	21	29	6.5/8.5	M012012	TC	27	42	6	M011042	TC	32	58	10
M010843	TC	21	35	7	M012094	TC	27	42	6	M010619	TC	33	47	7
M010066	TC	21	35	8	M010809	TC	27	43	9	M010241	TC	34	48	7
M012015	TC	22	29	7/8	M010924	TC	27.9	48	4	M010051	TC	34	52	10
M010481	TC	22	32	5	M010930	TC	28	38	7	M010952	TC	34	54	10
M010650	TC	22	32	7	M012023	TC	28	40	5	M012062	TC	35	42	7
M010820	TC	22	34	7	M010198	TC	28	40	7	M010353	TC	35	45	7
M010632	TC	22	34	8	M010222	TC	28	45	8	M010052	TC	35	47	7
M011019	TC	22	35	8	M010223	TC	28	47	10	M010427	TC	35	48	10
M010210	TC	22	35	7	M010876	TC	28	48	5	M010773	TC	35	48	8
M010034	TC	22	40	10	M010475	TC	30	38	5	M010117	TC	35	50	8
M012064	TC	22	40	3.5/4	M012011	TC	30	40	7	M010243	TC	35	50	10
M012038	TC	22	40	6	M010225	TC	30	40	7	M011038	TC	35	50	7
M010211	TC	22	40	8	M012068	TC	30	42	7	M010242	TC	35	52	5
M010035	TC	22	42	7	M010802	TC	30	42	8	M010889	TC	35	52	7
M012087	TC	23	31	6	M010620	TC	30	44	7	M010246	TC	35	52	8
M012013	TC	23	32	7	M010228	TC	30	45	8	M010954	TC	35	52	8
M010742	TC	23	35	7	M010229	TC	30	45	10	M010057	TC	35	52	10
M010831	TC	23	35	7	M010417	TC	30	45	6	M010536	TC	35	54	10/15
M011100	TC	23	38	9	M010858	TC	30	46	7	M010247	TC	35	55	10
M010212	TC	23	47	10	M010230	TC	30	47	7	M012070	TC	35	55	11
M012044	TC	23.8	38	5	M010230	TC	30	47	7	M010059	TC	35	55	12
M010480	TC	24	38	8	M011082	TC	30	47	7	M010830	TC	35	55	8
M010857	TC	24	40	7.5	M010894	TC	30	47	7	M011093	TC	35	55	8
M010799	TC	24	40	10	M011069	TC	30	48	8	M010779	TC	35	56	12
M010037	TC	24	49	12	M010224	TC	30	48	6	M010365	TC	35	56	8
M011079	TC	24.9	43	4	M010163	TC	30	48	6	M010729	TC	35	60	10
M010486	TC	25	32	5	M010044	TC	30	50	11	M010244	TC	35	60	12
M011096	TC	25	32	4	M010468	TC	30	50	7	M010245	TC	35	60	12
M010819	TC	25	35	6	M010626	TC	30	50	8	M010822	TC	35	60	8
M010213	TC	25	35	7	M010227	TC	30	50	10	M010248	TC	35	62	12
M010405	TC	25	35	5	M010227	TC	30	50	10	M010759	TC	35	62	7
M010216	TC	25	37	7	M010094	TC	30	52	10	M010793	TC	35	62	8
M012067	TC	25	40	5	M010708	TC	30	52	10	M010759	TC	35	62	7
M012073	TC	25	40	5	M010226	TC	30	52	8	M012093	TC	35	65	10
M010214	TC	25	40	8	M010754	TC	30	55	8	M010685	TC	35	65	12
M010612	TC	25	40	7	M010467	TC	30	55	7	M010617	TC	35	65	8
M010215	TC	25	40	10	M010232	TC	30	55	10	M010462	TC	35	72	12

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010801	TC	36	62	10	M010135	TC	42	75	10/12	M010283	TC	50	72	8
M011028	TC	36	62	7	M010406	TC	42	88	7	M010155	TC	50	75	12
M010735	TC	37	50	6	M010112	TC	43.5	68	12	M010363	TC	50	80	8.5
M010859	TC	37	50.5	7	M010803	TC	44	60	7	M010185	TC	50	80	8
M010004	TC	37	52	8	M010394	TC	44	60	9.5	M010284	TC	50	80	12
M010865	TC	37	64	13	M010088	TC	44	63	6	M010068	TC	51	76	10
M010606	TC	37.5	50	6	M010965	TC	45	55	8	M010047	TC	52	72	8
M010853	TC	38	50	8/8.5	M010496	TC	45	58	7	M010286	TC	52	72	12
M010983	TC	38	50	7.4	M010269	TC	45	60	8	M010109	TC	55	70	10
M010064	TC	38	52	10	M010763	TC	45	60	8	M010288	TC	55	70	8
M010660	TC	38	52	7	M010352	TC	45	60	7	M010833	TC	55	70	8
M010249	TC	38	52	8	M010702	TC	45	62	10	M010301	TC	55	70	12
M010348	TC	38	62	11	M010381	TC	45	62	12	M010292	TC	55	72	10
M010335	TC	38.5	52	6.5	M011035	TC	45	62	12	M012054	TC	55	72	8
M012027	TC	39	55	8	M010270	TC	45	62	8	M010101	TC	55	72	9
M010418	TC	39.5	52	10.4	M010079	TC	45	62	9	M010540	TC	55	75	10
M010252	TC	40	52	6	M010704	TC	45	65	10	M010293	TC	55	75	12
M010643	TC	40	52	7	M010707	TC	45	65	10	M011078	TC	55	75	7
M010495	TC	40	52	7	M010076	TC	45	65	8	M010832	TC	55	75	8
M010257	TC	40	52	9	M010266	TC	45	65	10	M010290	TC	55	80	10
M010977	TC	40	55	6	M010748	TC	45	68	11.5	M012055	TC	55	80	8
M010259	TC	40	55	7	M010268	TC	45	70	12	M010290	TC	55	80	10
M010390	TC	40	55	8	M010268	TC	45	70	12	M010907	TC	55	82	12
M010615	TC	40	55	8	M010134	TC	45	72	10	M011044	TC	55	82	12
M010258	TC	40	55	8	M010077	TC	45	72	8	M010645	TC	55	85	12
M010776	TC	40	58	10	M010077	TC	45	72	8	M012090	TC	55	100	12
M010260	TC	40	60	10	M010267	TC	45	72	12	M011089	TC	56	80	8
M010347	TC	40	60	8	M010451	TC	45	75	10	M010086	TC	58	72	8
M010505	TC	40	62	8	M010490	TC	45	75	10	M010294	TC	58	74	10
M010261	TC	40	62	10	M010956	TC	46	58	7	M010470	TC	58	75	9
M010432	TC	40	62	12	M010271	TC	46	58	6	M010356	TC	58.5	80	9/10
M010914	TC	40	62	7.5	M011057	TC	46	60	7	M012025	TC	59	80	10
M010666	TC	40	62	7	M011022	TC	46	64	8/13	M010361	TC	60	80	10/12
M010254	TC	40	62	8	M010813	TC	47	65	10	M012020	TC	60	80	8
M010385	TC	40	62	9	M011036	TC	47	84	10/12.5	M010118	TC	60	80	7
M010505	TC	40	62	8	M011007	TC	47	84	8	M010299	TC	60	80	12
M010262	TC	40	65	10	M010878	TC	47	84	12	M010296	TC	60	80	10
M010255	TC	40	65	12	M010675	TC	48	62	8	M010705	TC	60	80	10
M010262	TC	40	65	10	M010401	TC	48	62/70	7/9	M010302	TC	60	82	12
M010927	TC	40	68	11	M010273	TC	48	65	9	M010937	TC	60	85	12
M010823	TC	40	70	8	M010679	TC	48	65	7	M010303	TC	60	85	12
M010256	TC	40	70	12	M010544	TC	48	74	10	M010303	TC	60	85	12
M010158	TC	40	72	10	M010844	TC	49	63.5	8	M010367	TC	60	85	10
M010373	TC	40	80	12	M012026	TC	49	68	8	M011076	TC	60	90	13
M010539	TC	41	65		M010113	TC	49.5	77	18	M010304	TC	60	90	10
M010423	TC	41.1	55.5	8	M010393	TC	50	65	8	M010407	TC	62	80	12
M010796	TC	42	52	7	M010007	TC	50	65	10	M010532	TC	62	85	10
M010906	TC	42	54.5	6	M010274	TC	50	65	8	M010695	TC	65	77	8
M010973	TC	42	55	7	M010975	TC	50	67	11	M010306	TC	65	80	12
M010019	TC	42	55	7	M011023	TC	50	68	8	M010305	TC	65	85	10
M010300	TC	42	56	7	M010942	TC	50	68	9	M010727	TC	65	90	10
M010263	TC	42	56	7	M010276	TC	50	70	10	M010728	TC	65	90	13
M010360	TC	42	58	10	M010282	TC	50	70	12	M010307	TC	65	90	12
M010264	TC	42	60	7	M010043	TC	50	70	8	M010307	TC	65	90	12
M010070	TC	42	60	9	M010497	TC	50	70	9	M010727	TC	65	90	10
M011070	TC	42	62	10	M010709	TC	50	72	8	M010379	TC	65	95	12
M010911	TC	42	62	8	M010706	TC	50	72	8	M012036	TC	65	100	9.5
M010265	TC	42	62	12	M010366	TC	50	72	10	M010489	TC	66	89	9
M010806	TC	42	65	12	M010277	TC	50	72	12	M011071	TC	68	85	10

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010534	TC	68	87	8	M010105	TC	85	110	13	M011092	TC	115	150	12
M010629	TC	68	90	10	M010318	TC	85	120	12	M012029	TC	119	150	12
M012051	TC	70	85	10	M010881	TC	90	110	13	M010150	TC	120	150	12
M010312	TC	70	88	12	M010374	TC	90	110	10	M011107	TC	120	150	14
M010309	TC	70	90	10	M010041	TC	90	115	13	M010150	TC	120	150	12
M010584	TC	70	90	10	M010368	TC	90	115	13	M010761	TC	125	152	12
M010431	TC	70	90	12	M010322	TC	90	115	12	M010781	TC	130	150	13
M010910	TC	70	90	12	M010160	TC	90	115	12	M010330	TC	130	160	15
M010122	TC	70	95	12	M010433	TC	90	120	12	M010330	TC	130	160	15
M010311	TC	70	100	12	M010963	TC	90	130	12	M010527	TC	130	160	15
M010912	TC	70	105	12	M012089	TC	90	140	10	M010023	TC	130	160	12
M010429	TC	70	120	13	M011015	TC	92	108	10	M010357	TC	133.5	159	11.5/14
M010541	TC	72	88	8	M010452	TC	95	115	13	M010422	TC	135	160	12
M010678	TC	72	90	10	M010195	TC	95	115	12	M010762	TC	135	170	15
M010168	TC	75	95	10	M010943	TC	95	118	10	M010054	TC	140	160	12
M010098	TC	75	95	10	M010533	TC	95	120	13	M010491	TC	140	165	15
M010073	TC	75	100	13	M010324	TC	95	120	12	M010443	TC	140	170	16
M011025	TC	75	100	10	M011091	TC	95	125	12	M010909	TC	140	170	16
M010143	TC	75	100	12	M010981	TC	95	130	12	M010610	TC	140	170	15
M010421	TC	75	100	13	M012028	TC	99	125	12	M010687	TC	140	180	14
M010315	TC	75	105	12	M010062	TC	100	118	10	M010663	TC	145	167	12
M011090	TC	75	110	12	M010908	TC	100	120	13	M010934	TC	145	175	14
M010097	TC	75	110	13	M011075	TC	100	120	13	M010165	TC	145	175	17
M012091	TC	75	120	12	M010005	TC	100	120	15	M010752	TC	150	180	12
M010071	TC	75	130	10	M010110	TC	100	125	12	M010332	TC	150	180	15
M010350	TC	78	100	10	M010936	TC	100	125	12	M010674	TC	150	185	15
M012024	TC	79	100	12	M010006	TC	100	130	12	M010901	TC	153	175	13
M010316	TC	80	100	8.5	M010602	TC	100	140	15	M010474	TC	155	180	15
M010100	TC	80	100	10	M011068	TC	100	140	15/24	M010692	TC	157	184	18.5
M010089	TC	80	100	12	M011106	TC	105	125	13	M010050	TC	160	190	15
M010868	TC	80	100	10	M010325	TC	105	130	12	M010022	TC	160	200	15
M012033	TC	80	105	10	M010751	TC	110	130	12	M010171	TC	170	190	8.5
M010159	TC	80	105	12	M012019	TC	110	140	12	M010024	TC	170	200	15
M010103	TC	80	110	12	M010326	TC	110	140	14	M010693	TC	180	220	18
M010411	TC	81	104	11	M010075	TC	110	150	13	M010428	TC	190	220	15
M010382	TC	85	100	12	M010085	TC	111	152.35	12.8	M012022	TC	240	270	15
M010319	TC	85	105	12	M010009	TC	112	140	13					
M010166	TC	85	105	13	M010010	TC	115	140	13					
M010172	TC	85	105	13	M010327	TC	115	140	12					
M010317	TC	85	105	8	M010196	TC	115	140	12					
M010321	TC	85	105	12	M010453	TC	115	145	14					

TYPE SC SIZE TABLE

-  Rubber
-  Spring
-  Metal






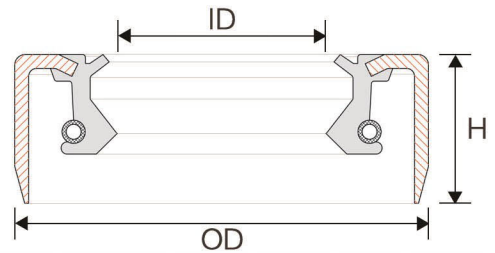
Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010149	SC	8	15	5	M012101	SC	10	22	7	M011047	SC	14	24	5
M010028	SC	8	16	5	M010551	SC	10	26	7	M010791	SC	14	32	5
M010055	SC	8	18	7	M010371	SC	11	22	7	M012010	SC	14	47	5.5
M010535	SC	8	18	6	M010624	SC	11.8	28.5	4.5	M012031	SC	14.73	21	5
M010658	SC	8	18	4	M010597	SC	12	21	4	M011041	SC	14.8	35	4
M010056	SC	8	22	7	M010498	SC	12	22	5	M010454	SC	15	21	8
M010058	SC	10	20	7	M010012	SC	12	25	8	M011048	SC	15	25	5
M010613	SC	10	20	6	M010083	SC	12	25	7	M010985	SC	15	26	4.5
M011081	SC	10	22	4/4.5	M012058	SC	12	25	5	M011040	SC	15	35	7

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M012047	SC	16	32	6	M010721	SC	28	40	8	M010482	SC	95	115	13
M010221	SC	17	26	6	M010458	SC	29.5	40	10	M010671	SC	95.25	114.3	8
M010546	SC	18	28	6	M010457	SC	30	40	5	M010652	SC	100	125	12
M010932	SC	18	28	4	M010769	SC	30	42	5	M010654	SC	105	130	12
M011046	SC	18	35	7	M011020	SC	30	42	8	M010656	SC	105	135	12
M010931	SC	18.73	42	7	M010651	SC	30	45	8	M010655	SC	105	140	12
M010905	SC	19.8	30	4	M010891	SC	30	47	7	M010664	SC	115	140	12
M010499	SC	20	30	5	M010397	SC	34	52.5	10	M010871	SC	120	140	12
M010500	SC	20	32	7	M010649	SC	35	55	7	M010657	SC	125	160	15
M010814	SC	20	35	5	M010046	SC	35	56	12	M010506	SC	130	160	12
M010209	SC	20	35	7/10	M010647	SC	35	60	10	M010688	SC	135	160	13
M012099	SC	20	38	4	M011088	SC	38	52	10	M010731	SC	135	165	12
M010450	SC	20	38	5	M011032	SC	40	52	7	M010680	SC	135	170	12
M010669	SC	20	40	7	M010665	SC	40	53	7.5	M010935	SC	145	175	13
M010201	SC	20	42	5	M010964	SC	45	55	7	M010955	SC	150	170	12
M010961	SC	20	42	7	M010078	SC	45	80	10	M010653	SC	150	180	15
M010472	SC	20	47	7	M010016	SC	46	94.4	8/10	M010434	SC	150	180	15
M010648	SC	22	32	7	M010870	SC	48	65	10	M010770	SC	150	180	13
M010502	SC	22	32	6	M010815	SC	50	62	7	M010673	SC	150	185	15
M010812	SC	22	47	7	M010547	SC	50	65	7	M010170	SC	170	190	8.5
M010925	SC	22.3	34.7/40.4	4/7.5	M010375	SC	50	72	12	M010730	SC	170	200	13
M012071	SC	23	29.9	4	M010646	SC	50	80	12	M010445	SC	175	200	15
M010792	SC	24	40	10	M010867	SC	52	68	8	M010483	SC	180	210	15
M012057	SC	24	42	7	M010291	SC	55	70	12	M010156	SC	180	210	15
M010426	SC	24.8	47	6.5	M010169	SC	75	95	10	M010732	SC	180	210	13
M010855	SC	25	33	5	M010484	SC	75	95	10	M010968	SC	240	270	15
M010933	SC	25	35	5	M010437	SC	75	110	12	M010582	SC	350	380	16
M010994	SC	25	38	5	M010845	SC	80	98.5	11.5	M010542	SC	400	440	20
M010636	SC	25	42	7	M010869	SC	80	110	10	M010096	SC	480	520	20
M010953	SC	25	47	7	M010197	SC	85	105	8	M010106	SC	585	635	22
M010625	SC	25	47	6.5	M010167	SC	85	105	13	M010104	SC	650	700	25

TYPE TB SIZE TABLE

-  Rubber
-  Spring
-  Metal



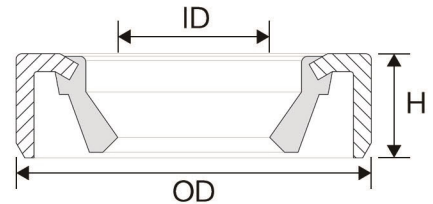
Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010946	TB	1.75	2.378	0.313	M010545	TB	17	28	6	M010780	TB	25	42	7.5
M010947	TB	1.75	2.721	0.438	M010018	TB	17	32	7	M012017	TB	26.5	45.8/59	3/6
M010948	TB	3.75	5.004	0.375	M011095	TB	17	32.2	7	M010951	TB	28.5	41.3	6.5
M010883	TB	5	14	5.5	M010854	TB	17	33	3.6	M010161	TB	28.6	41.2	6
M010900	TB	6.004	6.75	0.5	M010438	TB	17	35	10	M010520	TB	29	43	6.5
M010886	TB	9	19	6.35	M010807	TB	17	36	6.5	M012100	TB	29	59	6/6.5
M011108	TB	12	20	5	M010601	TB	17	40	5	M010231	TB	30	47	8
M012006	TB	12	22	5	M012007	TB	18	30	7	M010174	TB	31.5	47.5	6.5
M010600	TB	13	22	5	M010412	TB	18	34	7	M010689	TB	31.5	54	7
M010778	TB	15	22	3.50	M011085	TB	18.4	26.4	3.6	M010154	TB	31.75	44.45	6.5
M011059	TB	15	22	4	M011002	TB	19	31.5	7/8.5	M010370	TB	31.75	50.76	11.11
M010921	TB	15	26	4	M010676	TB	19	33.3	8	M010828	TB	32	45	10
M012042	TB	15	28	4.5	M010537	TB	19	36	7	M010967	TB	33	52	10
M011060	TB	15	29	6*4	M010508	TB	19	38.1	6.5	M010794	TB	35	50.8	5/7
M012043	TB	15	35	4.5	M010950	TB	22	32	6.5	M010067	TB	35	52	8
M010785	TB	16	30	6	M012016	TB	22	35	5	M010920	TB	37	50	6
M010976	TB	16	30	6	M012018	TB	22	45.8/58	3/6	M010376	TB	38	55	8
M010757	TB	17	22	3.5	M010989	TB	23	35	5	M010250	TB	38	58	11

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010251	TB	38	74	11	M010465	TB	48.86	72	9.5	M010918	TB	92	110	9
M010384	TB	39.42	80.26	13.46	M010461	TB	49	70	12	M010672	TB	95.25	114.3	12.32
M010604	TB	40	50	5.5	M010280	TB	50	67	9	M010743	TB	97	144.8	19
M010253	TB	40	52	8	M010395	TB	50	67	9	M010835	TB	100.5	150	14
M010400	TB	40	52/58	10	M010148	TB	50	70	7.2	M010585	TB	105	130	11
M010399	TB	40	54	7	M010275	TB	50	70	9	M010072	TB	115	140	16
M010419	TB	40	68	11	M010595	TB	52	65	9	M010586	TB	120	140	13
M010398	TB	41	53	7	M010396	TB	52	70	9	M010696	TB	130	150	10
M010949	TB	41	54	6.5	M010013	TB	52	72	7.5	M010529	TB	137	161.92	12/15
M010690	TB	41.3	63.5	6.5	M010127	TB	53	71	11.5	M010362	TB	138	152	12
M010795	TB	42	54	6	M010694	TB	60	72	7	M010668	TB	145	175	14
M010341	TB	42	55	9	M010811	TB	62	77	7/11.5	M010726	TB	154	175	14.50
M010141	TB	42	58	7	M010622	TB	62	100	12	M010530	TB	154	180	24/29
M011008	TB	44	56/64	9	M010008	TB	73	90	8	M010144	TB	160	190	15
M012001	TB	44.5	76.25	10	M010917	TB	85	105	10	M010039	TB	170	190	13
M010124	TB	45	64	12	M010403	TB	90	110	12	M010027	TB	180	200	16
M010810	TB	45	65	10	M010323	TB	91	111.1	11	M010193	TB	190	220	15
M010123	TB	48	64	12	M010919	TB	92	105	10	M012008	TB	200	230	15

TYPE VB SIZE TABLE

Rubber
 Metal

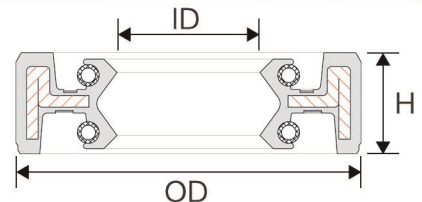


Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010146	VB	7	9.8/13.2	10	M011109	VB	20	27	4	M010970	VB	36	66	3/5
M011072	VB	7.5	18.2	4.2	M012056	VB	20	35	2.4	M010334	VB	38	47.6	6.5
M010444	VB	8	12	3	M010837	VB	21	38	2.3	M010790	VB	38	47.6	4.8
M010521	VB	8	15	3	M010852	VB	21.6	33.2	6.5	M010851	VB	38	47.7	4.8
M010594	VB	10	15	3	M010635	VB	21.8	28.8	3	M010369	VB	38	48	6
M010838	VB	12	16	3	M011074	VB	21.8	45	2.4	M010392	VB	40	54	5
M011045	VB	12.6	16	3	M010488	VB	22.23	28.65	3.17	M010825	VB	41.1	50.8	5
M011066	VB	13	32	11	M010402	VB	25	32	4	M010336	VB	41.1	55.5	8
M010842	VB	13.5	17	3	M010053	VB	25	32	4	M010119	VB	45.6	50	4
M010455	VB	15	21	3	M010715	VB	25	36	2.5	M010120	VB	46.6	50	4
M010764	VB	15.5	23.8	5	M010945	VB	25	42	3	M010278	VB	50	58	4
M010874	VB	16	20.5	2.3	M010972	VB	25.01	42.05	1.45	M010339	VB	51	58	4
M010847	VB	16	21.6	3	M010607	VB	25.5	43	3	M010087	VB	63.5	77	4
M011063	VB	16	32	11	M010990	VB	26	59	3.17	M010782	VB	64	76.3	8
M010478	VB	16.5	21.5	3	M011104	VB	28	34.9	1.5	M010590	VB	68	85	7
M010922	VB	17.5	26	4	M010476	VB	28	48	3.5	M010354	VB	70	82	4
M010069	VB	18	24.2	3	M012037	VB	28	48	2.9	M010340	VB	95.2	146	16.5
M010524	VB	19	25	5	M011105	VB	29.5	36.4	1.5	M011027	VB	235	254	6.35
M010487	VB	19.05	25.4	3.3	M012081	VB	33	50.2	10.4					

TYPE DC SIZE TABLE

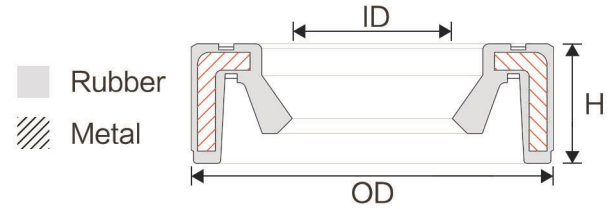
Rubber
 Spring
 Metal



Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M011084	DC	10	22	5/7	M012041	DC	18	30	7	M010840	DC	25	42	12
M012080	DC	15	30	7	M012059	DC	19	30	7	M010030	DC	30	47	8
M010738	DC	17	28	7	M010850	DC	19	36	8/9	M010621	DC	45	62	11
M012040	DC	17	30	7	M010824	DC	19	38	8/9	M012078	DC	75	110	12
M010839	DC	18	30	10	M010841	DC	20	35	10					

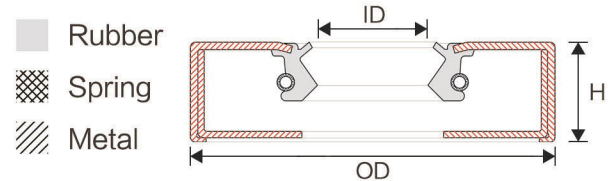
TYPE VC SIZE TABLE



Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010758	VC	6	10.6	3	M010772	VC	15	21	8	M010589	VC	38	69	3/5
M010712	VC	8	12	3	M010789	VC	15	21	3	M010473	VC	39.8	48	6
M010408	VC	9	14	5	M010084	VC	15	22	3	M010631	VC	40	47	4
M010592	VC	10	14	5	M011064	VC	16	32	9	M010681	VC	40	50	4
M010151	VC	10	15	4	M010479	VC	18	30	5	M010378	VC	40	52	10
M011006	VC	10	17	3	M010788	VC	20	26	4	M010667	VC	40	58	6
M010913	VC	11	16	3	M012046	VC	20	28	4	M010992	VC	42	62	10
M010634	VC	12	16	3	M010670	VC	26	40	5	M010993	VC	45	60	10
M010179	VC	12	19	3	M010980	VC	27.3	47	7.5	M012095	VC	50	80	11
M012079	VC	12	24	7	M010279	VC	28	35	9	M011034	VC	52	60	5
M011065	VC	13	32	9	M010641	VC	28	35	4	M010995	VC	63.5	75	5
M011098	VC	14	19	3	M012053	VC	28	42	4.5	M010821	VC	67	71	4
M010716	VC	14	20	3	M010971	VC	28.2	38	2.5	M010519	VC	90	105	6
M010511	VC	14.8	30	5	M010630	VC	30	37	4	M010591	VC	115	130	7
M010523	VC	15	20	2.5	M010605	VC	32	48	7/10.2					
M010997	VC	15	20.9	5	M010771	VC	35	45	4					

TYPE TA SIZE TABLE



Unit : mm

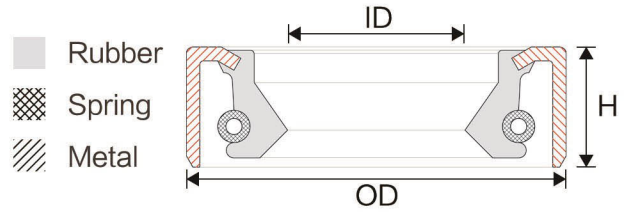
NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010518	TA	13.9	32	7.5	M010588	TA	56	80	13/14.5	M010387	TA	95	130	12
M010186	TA	14.8	32	8/9.3	M012004	TA	57	101.7	12	M010140	TA	120	150	15
M010203	TA	21	29.6	7.9	M010297	TA	60	90	13	M010345	TA	120	155	19/23
M010036	TA	22	47	9	M010298	TA	60	90	14/16.3	M011099	TA	125	165	15
M012014	TA	23	40	7.5	M010313	TA	70	90	12	M010609	TA	127	165.1	16
M012032	TA	23	40	6/8	M010314	TA	70	100	13	M010714	TA	130	160	17
M010873	TA	30	50	13	M010344	TA	76	130	19	M010048	TA	130	170	17
M010377	TA	38	58	18.3	M010015	TA	77	102	10/22	M010720	TA	145	175	17
M010125	TA	50	68	14	M010164	TA	85	145	12/37	M010623	TA	155	190	17.5/19
M010082	TA	50	68	9	M010642	TA	90	110	13	M010596	TA	160	190	15
M010126	TA	50	70	13.5	M010386	TA	90	118	12					
M010289	TA	55	80	10	M010713	TA	90	130	17					

TYPE AEX SIZE TABLE

Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010879	AEX	25	52	12	M011039	AEX	107.8	153	18	M012050	AEX	118.5	152.3	25.4
M011102	AEX	30	72	13/17.5	M010697	AEX	107.95	152.63	24.66	M010866	AEX	121	160	29
M010988	AEX	38	65/73.7	11/13	M011101	AEX	109.3	153/185	20.5	M010864	AEX	121	160.3	30.15
M010863	AEX	89	123	23.5	M011011	AEX	111.13	152.55	26.59	M012049	AEX	122	160.2	28
M010684	AEX	90	115	25.4	M010351	AEX	117.09	152.76	23.16	M010683	AEX	133.3	158.71	11/13
M012048	AEX	90	123	24	M010998	AEX	117.37	152.50	24	M010441	AEX	135	156.7	8/12
M010599	AEX	100	179	15.3	M010848	AEX	117.47	152.4	16.26/17.53	M010737	AEX	155	180	15
M012063	AEX	102.5	158	13/19	M010849	AEX	117.48	152.4	17.3	M010959	AEX	178	207.7	16.5
M010960	AEX	107	152.5	16/30	M011031	AEX	117.48	158	17.8					

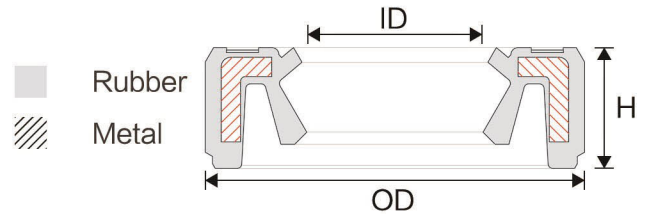
TYPE SB SIZE TABLE



Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010173	SB	5	9	2	M010162	SB	25	40	7	M011103	SB	45	62	9
M010136	SB	8	16	5	M010700	SB	30	37	4	M011058	SB	50	68	9
M010494	SB	16	28	7	M010413	SB	30.7	50.95	9.65	M010287	SB	53	68	10
M010888	SB	18.5	31.75	4.8	M010460	SB	33.5	55	10	M010349	SB	54	70	4.5
M010915	SB	18.68	30	4.5	M010538	SB	34.7	57.1	7	M010628	SB	132	160	10
M011030	SB	21	35	9.5	M010699	SB	35	42	4	M010049	SB	170	190	13
M010509	SB	21	38.1	8	M010733	SB	35	43	4	M010200	SB	190	220	15
M010916	SB	22	32	6	M010014	SB	39.5	60	10	M010194	SB	190	220	15
M010632	SB	22	34.5	8.5	M010783	SB	40	47	4	M010929	SB	190	220	15
M010698	SB	25	32	4	M010701	SB	40	50.8	6.5	M010281	SB	560	610	22

TYPE KC SIZE TABLE



Unit : mm

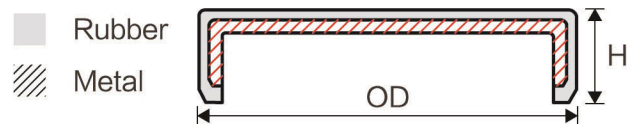
NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M010093	KC	5.5	19	4	M010456	KC	28	40	7/10	M010526	KC	52	68	7/13
M010175	KC	8	14	4	M010463	KC	40	53	7/10	M010987	KC	54	64/70	9/24
M010060	KC	18	27	5.5/8.5	M010391	KC	42	55	8	M010295	KC	60	68	5
M010611	KC	19	30	7/9	M010272	KC	48	62	9/24					
M010029	KC	19.05	30	3	M010081	KC	50	67	11					

SPECIAL TYPE SIZE TABLE

Unit : mm

NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H	NO	TYPE	ID	OD	H
M011054	VSF	6.3	14.5	10/13	M012030	VSF	6.3	14.5	10/13	M011062	VSF	8	17	5/8.8
M011067	DKC	19	32/38	2.5/8	M010661	OTC	114.5	135	10	M010662	OTC	134.5	155	10

TYPE G SIZE TABLE



Unit : mm

NO	OD	H	NO	OD	H	NO	OD	H	NO	OD	H
G19089	13	4	G19016	35	8	G19074	55	7	G19081	105	10
G19004	20	8	G19069	37	7	G19034	62	7	G19057	110	12
G19088	22	4	G19079	37	10	G19035	62	8	G19059	125	12
G19086	22	5	G19077	40	3.2	G19040	72	9	G19060	130	12
G19084	26	6.5	G19087	40	5	G19078	72	11.5	G19063	140	15
G19075	28	5.8	G19018	40	7	G19044	80	9	G19072	145	15
G19008	28	7	G19080	42	7	G19046	80	10	G19083	150	15
G19012	30	8	G19025	47	6.5	G19047	80	12	G19066	160	15
G19006	32	6	G19023	47	7	G19045	85	10	G19073	170	15
G19014	32	7	G19026	50	8	G19049	85	12	G19068	180	12
G19070	35	5	G19027	52	6.5	G19052	90	12	G19085	225	14
G19076	35	5.8	G19028	52	7	G19054	100	12	G19071	240	15

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