



SEAL SELECTION MANUAL

2019 EDITION | ENGLISH

**Liaoning Mais Sealing
Technology Co., Ltd.**

Liaoning Mais sealing technology co., Ltd. Is a set design, research and development, manufacturing, sales in the integration of high-tech seal specializing in the production of enterprises, the company introduced advanced production equipment, adopt new management system, and have reached a consistent product all process, namely, product design, formulation development, raw materials manufacturing, product processing, quality inspection, performance test. All independently. Honest, trustworthy, innovative and developing business philosophy, to provide customers with the best quality products and services. To constantly discover and meet the needs of domestic and foreign users to expand the market and develop enterprises. Break through the traditional business model more with your sealing scheme and cost performance for your sincere service. Liaoning Mais looks forward to your coming!

Setting sail

Pursuing Excellent Quality

Providing perfect service.

Creating extraordinary value,

Creating Seal Brand of National Industry!



Pursue perfection and provide omnidirectional sealing solution





Striving
for
Excellence



Creating
Quality
Products





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The PTFE which has long been known as “king of plastic” is the basic component, and can be added with different fillers according to different requirements, to improve its performance, and thus achieving the most ideal effect as you required. Certain proportions of bronze powder, graphite and molybdenum disulfide, etc. shall be filled, and the metal-plastic composite can be obtained by process such as fine screening, mixing, profiling, sintering and machining.

PTFE products have been used in hydraulic industry for many years and have been well received for being used in piston or piston lever in hydraulic-oil cylinder system, with the major performance features of low frictional resistance and no creeping phenomenon; it has very good dynamic and static sealing effects; no stiction phenomenon; resistance to strong acid, strong base, high-low temperature, high pressure, good performance with or without lubrication;

Table 1. Physical and Mechanical Performance of pure Product

Item	Unit	Index
Proportion	g/cm ³	2.1~2.2
Melting point	°C	327
Decomposition temperature	°C	Over 415 (generating harmful gas)
Tensile strength	Mpa	14~40
Operating temperature	°C	-180~+250
Strip breakage elongation	%	200~400
Dielectric constant	60HZ	<2.1
Dielectric loss tangent	60HZ	<0.0002
Breakdown voltage	4kv/mm	25~40
Specific heat	Cae/g°C	0.25
Coefficient of linear expansion	1/°C	10×10 ⁻⁵
Friction coefficient	Against metal	0.07~0.14

Table 1. Physical and Mechanical Performance of Product Filled With Bronze Powder

Item	Unit	Index
Maximum operating temperature	°C	200°C
Proportion (40% bronze powder)	g/cm ³	2.91~2.95
Break strength	Mpa	14~15
Break elongation	%	100~130
Impact strength	kg/cm ²	40~50
Hardness of minimum particle under indoor temperature	s-N/mm ²	60×30

★Standard Material

Sealing ring: filled polytetrafluoroethylene (F-PTFE) O-ring: nitrile rubber (NBR) or fluororubber (FKM)

★Application Range

Used for hydraulic system, reciprocating motion and bidirectional piston seal under high pressure, low pressure and high-frequency working conditions. Apply to the conditions of long and short stroke and occasions of larger range fluid and high temperature, suitable for larger piston clearance, for example it can be used for injection molding machines, bulldozers, agricultural machinery, pressing machines and other machine tools.

Conform to ISO7425/1, GB/T15242.1-94 and GB/T15242.3-94 standards.

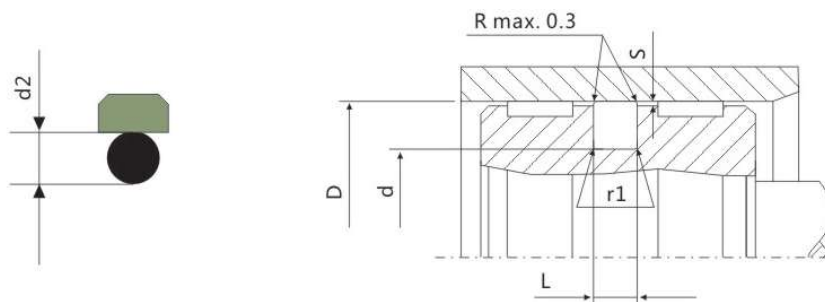
Please refer to standards of PG4 series of Trelleborg Company, OMK-MR series of Merkel Company, OE series of Parker Company and YB series of AS Company when designing.

★Features

- ▣ Good dynamic and static sealing performance
- ▣ Owing to big extrusion clearance, it can also be safely used in the Medium with sewage
- ▣ Simple groove, and can be used for integral pistons
- ▣ Hydraulic oil (biological oil) adapted to new environmental safety
- ▣ Allow bigger extrusion clearance, depending on application occasions, and can reduce the processing costs
- ▣ Small friction with no crawling phenomenon
- ▣ Strong adaptability to working conditions for multiple usable types of materials

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30°C +200°C	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	8-2000mm



Installation Dimension

Cylinder Diameter DH9			Bottom Groove Diameter	Groove Width	Fillet	Radial Clearance S max			Section of O-ring
Standard specification	Light-duty	Heavy-duty	dh9	L+0.2	r1	10MPa	20MPa	40MPa	d2
8-14.9	15-39.9	-	D-4.9	2.2	0.4	0.3	0.20	0.15	1.80
15-39.3	40-79.9	-	D-7.5	3.2	0.6	0.4	0.25	0.15	2.65
40-79.9	80-132.9	15-39.9	D-11.0	4.2	1.0	0.4	0.25	0.20	3.55
80-132.9	133-329.9	40-79.9	D-15.5	6.3	1.3	0.5	0.30	0.20	5.30
133-329.9	330-669.9	80-132.9	D-21.0	8.1	1.8	0.6	0.35	0.25	7.00
330-669.9	670-999.9	133-329.9	D-24.5	8.1	1.8	0.6	0.35	0.25	7.00
670-999.9	-	330-669.9	D-28.0	9.5	2.5	0.7	0.50	0.30	8.60
>1000			D-38.0	13.8	3.0	1.0	0.70	0.60	12.00



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	Dh9	dh9	L+0.2
MAIS-01-8	8	3.1	2.2
MAIS-01-10	10	5.1	2.2
MAIS-01-12	12	7.1	2.2
MAIS-01-14	14	9.1	2.2
MAIS-01-15	15	7.5	3.2
MAIS-01-16	16	11.1	2.2
MAIS-01-16/1	16	8.5	3.2
MAIS-01-18	18	13.1	2.2
MAIS-01-18/1	18	10.5	3.2
MAIS-01-20	20	15.1	2.2
MAIS-01-20/1	20	12.5	3.2
MAIS-01-21	21	13.5	3.2
MAIS-01-22	22	17.1	2.2
MAIS-01-22/1	22	14.5	3.2
MAIS-01-24	24	16.5	3.2
MAIS-01-25	25	17.5	3.2
MAIS-01-28	28	20.5	3.2
MAIS-01-30	30	22.5	3.2
MAIS-01-32	32	24.5	3.2
MAIS-01-32/1	32	21.0	4.2
MAIS-01-35	35	27.5	3.2
MAIS-01-35/1	35	24.0	4.2
MAIS-01-36	36	28.5	3.2
MAIS-01-38	38	30.5	3.2
MAIS-01-39	39	31.5	3.2
MAIS-01-40	40	32.5	3.2
MAIS-01-40/1	40	29.0	4.2
MAIS-01-42	42	31.0	4.2
MAIS-01-45	45	34.0	4.2
MAIS-01-48	48	37.0	4.2
MAIS-01-50	50	39.0	4.2
MAIS-01-50/1	50	34.5	6.3
MAIS-01-52	52	41.0	4.2
MAIS-01-53	53	42.0	4.2
MAIS-01-55	55	44.0	4.2
MAIS-01-57	57	46.0	4.2
MAIS-01-58	58	47.0	4.2
MAIS-01-60	60	49.0	4.2

Order No.	Cylinder Diameter	Bottom Diameter	Width
	Dh9	dh9	L+0.2
MAIS-01-62	62	51.0	4.2
MAIS-01-63	63	52.0	4.2
MAIS-01-63/1	63	47.5	6.3
MAIS-01-64	64	53.0	4.2
MAIS-01-65	65	54.0	4.2
MAIS-01-70	70	59.0	4.2
MAIS-01-70/1	70	54.5	6.3
MAIS-01-75	75	64.0	4.2
MAIS-01-80	80	64.5	6.3
MAIS-01-80/1	80	59.0	8.1
MAIS-01-85	85	69.5	6.3
MAIS-01-89	89	73.5	6.3
MAIS-01-90/1	90	79.0	4.2
MAIS-01-90	90	74.5	6.3
MAIS-01-95	95	79.5	6.3
MAIS-01-100/1	100	89.0	4.2
MAIS-01-100	100	84.5	6.3
MAIS-01-100/2	100	79.0	8.1
MAIS-01-105	105	89.5	6.3
MAIS-01-110	110	94.5	6.3
MAIS-01-115	115	99.5	6.3
MAIS-01-120	120	104.5	6.3
MAIS-01-125	125	109.5	6.3
MAIS-01-125/1	125	104.0	8.1
MAIS-01-127	127	111.5	6.3
MAIS-01-130	130	114.5	6.3
MAIS-01-130/1	130	109.0	8.1
MAIS-01-132	132	116.5	6.3
MAIS-01-133	133	112.0	8.1
MAIS-01-135	135	114.0	8.1
MAIS-01-140	140	119.0	8.1
MAIS-01-145	145	124.0	8.1
MAIS-01-150	150	129.0	8.1
MAIS-01-155	155	134.0	8.1
MAIS-01-160	160	139.0	8.1
MAIS-01-160/1	160	144.5	6.3
MAIS-01-165	165	144.0	8.1
MAIS-01-170	170	149.0	8.1



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	Dh9	dh9	L+0.2
MAIS-01-175	175	154.0	8.1
MAIS-01-180	180	159.0	8.1
MAIS-01-190	190	169.0	8.1
MAIS-01-200/1	200	184.5	6.3
MAIS-01-200	200	179.0	8.1
MAIS-01-210	210	189.0	8.1
MAIS-01-220	220	199.0	8.1
MAIS-01-230	230	209.0	8.1
MAIS-01-240	240	219.0	8.1
MAIS-01-250/1	250	235.5	6.3
MAIS-01-250	250	229.0	8.1
MAIS-01-260	260	239.0	8.1
MAIS-01-270	270	249.0	8.1
MAIS-01-280	280	259.0	8.1
MAIS-01-290	290	269.0	8.1
MAIS-01-300	300	279.0	8.1
MAIS-01-310	310	289.0	8.1
MAIS-01-320	320	299.0	8.1
MAIS-01-320/1	320	295.5	8.1
MAIS-01-330	330	305.5	8.1
MAIS-01-340	340	315.5	8.1
MAIS-01-350	350	325.5	8.1
MAIS-01-360	360	335.5	8.1
MAIS-01-370	370	345.5	8.1
MAIS-01-380	380	355.5	8.1
MAIS-01-390	390	365.5	8.1
MAIS-01-400	400	375.5	8.1
MAIS-01-410	410	385.5	8.1
MAIS-01-420	420	395.5	8.1
MAIS-01-430	430	405.5	8.1
MAIS-01-440	440	415.5	8.1
MAIS-01-450	450	425.5	8.1
MAIS-01-460	460	435.5	8.1
MAIS-01-470	470	445.5	8.1
MAIS-01-480	480	455.5	8.1
MAIS-01-490	490	465.5	8.1

Order No.	Cylinder Diameter	Bottom Diameter	Width
	Dh9	dh9	L+0.2
MAIS-01-500	500	475.5	8.1
MAIS-01-510	510	485.5	8.1
MAIS-01-520	520	495.5	8.1
MAIS-01-530	530	505.5	8.1
MAIS-01-540	540	515.5	8.1
MAIS-01-550	550	525.5	8.1
MAIS-01-560	560	535.5	8.1
MAIS-01-570	570	545.5	8.1
MAIS-01-580	580	555.5	8.1
MAIS-01-590	590	565.5	8.1
MAIS-01-600	600	575.5	8.1
MAIS-01-610	610	585.5	8.1
MAIS-01-620	620	595.5	8.1
MAIS-01-630	630	605.5	8.1
MAIS-01-640	640	615.5	8.1
MAIS-01-650	650	625.5	8.1
MAIS-01-660	660	635.5	8.1
MAIS-01-670	670	642.0	9.5
MAIS-01-680	680	652.0	9.5
MAIS-01-690	690	662.0	9.5
MAIS-01-700	700	672.0	9.5
MAIS-01-710	710	682.0	9.5
MAIS-01-740	740	712.0	9.5
MAIS-01-750	750	722.0	9.5
MAIS-01-800	800	772.0	9.5
MAIS-01-900	900	872.0	9.5
MAIS-01-1000	1000	972.0	9.5
MAIS-01-1000/1	1000	962.0	13.8
MAIS-01-1050	1050	1022.0	9.5
MAIS-01-1060	1060	1022.0	13.8
MAIS-01-1070	1070	1032.0	13.8
MAIS-01-1200	1200	1172.0	9.5
MAIS-01-1200/1	1200	1162.0	13.8
MAIS-01-1225	1225	1187.0	13.8
MAIS-01-1500	1500	1462.0	13.8
MAIS-01-2000	2000	1962.0	13.8a

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

Used for hydraulic reciprocating motion system and sealing under high, medium and low pressure, heavy-duty as well as high frequency working conditions; applicable to the occasions of all kinds of strokes, various liquids and high temperature; suitable for larger piston clearance, for example it can be used for bulldozers, excavators, forging machines, ceramic brick press, rolling mills, servo valves and machine tools.

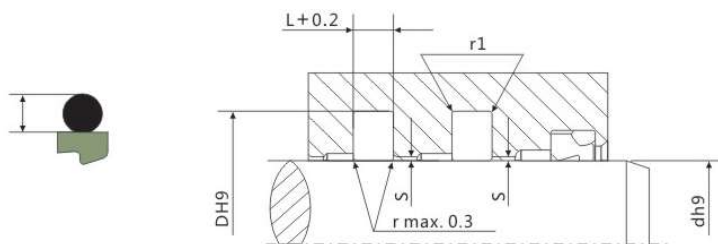
Conform to GB/T 15242.1-94 and GB/T 15242.3-94 standards. Please refer to standards of OD series of Parker Company, OMS-MR of Merkel Company, RS1 series of Trelleborg Company and XB series of AS Company when designing and selecting.

★Features

- ▣ Good dynamic and static sealing performance
- ▣ No occurrence of trapped pressure, and can be multiply installed in series
- ▣ Small friction with no crawling or stiction phenomena
- ▣ Simple groove structure and easy for installation
- ▣ Feasible of working with or without lubrication
- ▣ Good anti-extrusion performance
- ▣ Excellent buffering to the systems subject to strong impact
- ▣ Strong corrosion resistance
- ▣ Long service life

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30℃ +200℃	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	5-2000mm



Installation Dimension

Cylinder Diameter DH9			Bottom Groove Diameter	Groove Width	Fillet	Radial Clearance S max			Section of O-ring
Standard specification	Light-duty	Heavy-duty	dh9	L+0.2	r1	10MPa	20MPa	40MPa	d2
3-7.9	8-18.9	-	d+4.9	2.2	0.4	0.3	0.20	0.15	1.80
8-18.9	19-37.9	-	d+7.3	3.2	0.6	0.4	0.25	0.15	2.65
19-37.9	38-199.9	8-18.9	d+10.7	4.2	1.0	0.4	0.25	0.20	3.55
38-199.9	200-255.9	19-37.9	d+15.1	6.3	1.3	0.5	0.30	0.20	5.30
200-255.9	256-649.9	38-199.9	d+20.5	8.1	1.8	0.6	0.35	0.25	7.00
256-649.9	650-999.9	200-255.9	d+24.0	8.1	1.8	0.6	0.35	0.25	7.00
650-999.9	≥1000.0	256-649.9	d+27.3	9.5	2.5	0.7	0.50	0.30	8.60
≥1000.0	-	650-999.9	d+38.0	13.8	3.0	1.0	0.70	0.60	12.00

Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	dh9	DH9	L+0.2
MAIS-02-5	5	9.9	2.2
MAIS-02-6	6	10.9	2.2
MAIS-02-8	8	15.3	3.2
MAIS-02-10	10	17.3	3.2
MAIS-02-12	12	19.3	3.2
MAIS-02-14	14	21.3	3.2
MAIS-02-15	15	22.3	3.2
MAIS-02-16	16	23.3	3.2
MAIS-02-18	18	25.3	3.2
MAIS-02-20	20	30.7	4.2
MAIS-02-22	22	32.7	4.2
MAIS-02-25	25	35.7	4.2
MAIS-02-28	28	38.7	4.2
MAIS-02-30	30	40.7	4.2
MAIS-02-32	32	42.7	4.2
MAIS-02-35	35	45.7	4.2
MAIS-02-36	36	46.7	4.2
MAIS-02-38	38	53.1	6.3
MAIS-02-40	40	55.1	6.3
MAIS-02-42	42	57.1	6.3
MAIS-02-45	45	60.1	6.3
MAIS-02-48	48	63.1	6.3
MAIS-02-50	50	65.1	6.3
MAIS-02-52	52	67.1	6.3
MAIS-02-55	55	70.1	6.3
MAIS-02-56	56	71.1	6.3
MAIS-02-60	60	75.1	6.3
MAIS-02-63	63	78.1	6.3
MAIS-02-65	65	80.1	6.3
MAIS-02-70	70	85.1	6.3
MAIS-02-75	75	90.1	6.3
MAIS-02-80	80	95.1	6.3
MAIS-02-85	85	100.1	6.3
MAIS-02-90	90	105.1	6.3
MAIS-02-95	95	110.1	6.3
MAIS-02-100	100	115.1	6.3
MAIS-02-105	105	120.1	6.3
MAIS-02-110	110	125.1	6.3

Order No.	Cylinder Diameter	Bottom Diameter	Width
	dh9	DH9	L+0.2
MAIS-02-115	115	130.1	6.3
MAIS-02-120	120	135.1	6.3
MAIS-02-125	125	140.1	6.3
MAIS-02-130	130	145.1	6.3
MAIS-02-135	135	150.1	6.3
MAIS-02-140	140	155.1	6.3
MAIS-02-145	145	160.1	6.3
MAIS-02-150	150	165.1	6.3
MAIS-02-155	155	170.1	6.3
MAIS-02-160	160	175.1	6.3
MAIS-02-160/1	160	180.5	6.3
MAIS-02-165	165	180.1	6.3
MAIS-02-170	170	185.1	6.3
MAIS-02-175	175	190.1	6.3
MAIS-02-180	180	195.1	6.3
MAIS-02-180/1	180	200.5	8.1
MAIS-02-185	185	200.1	6.3
MAIS-02-190	190	205.1	6.3
MAIS-02-195	195	210.1	6.3
MAIS-02-200/1	200	215.1	6.3
MAIS-02-200	200	220.5	8.1
MAIS-02-205	205	225.5	8.1
MAIS-02-210	210	230.5	8.1
MAIS-02-215	215	235.5	8.1
MAIS-02-220	220	240.5	8.1
MAIS-02-225	225	245.5	8.1
MAIS-02-230	230	250.5	8.1
MAIS-02-235	235	255.5	8.1
MAIS-02-240	240	260.5	8.1
MAIS-02-245	245	265.5	8.1
MAIS-02-250	250	270.5	8.1
MAIS-02-260	260	284.0	8.1
MAIS-02-270	270	294.0	8.1
MAIS-02-280	280	304.0	8.1
MAIS-02-285	285	309.0	8.1
MAIS-02-290	290	314.0	8.1
MAIS-02-295	295	319.0	8.1
MAIS-02-300	300	324.0	8.1



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	dh9	DH9	L+0.2
MAIS-02-310	310	334.0	8.1
MAIS-02-320	320	344.0	8.1
MAIS-02-330	330	354.0	8.1
MAIS-02-340	340	364.0	8.1
MAIS-02-350	350	374.0	8.1
MAIS-02-360	360	384.0	8.1
MAIS-02-365	365	389.0	8.1
MAIS-02-370	370	394.0	8.1
MAIS-02-375	375	399.0	8.1
MAIS-02-380	380	404.0	8.1
MAIS-02-390	390	414.0	8.1
MAIS-02-400	400	424.0	8.1
MAIS-02-410	410	434.0	8.1
MAIS-02-420	420	444.0	8.1
MAIS-02-430	430	454.0	8.1
MAIS-02-440	440	464.0	8.1
MAIS-02-450	450	474.0	8.1
MAIS-02-460	460	484.0	8.1
MAIS-02-470	470	494.0	8.1
MAIS-02-480	480	504.0	8.1
MAIS-02-490	490	514.0	8.1
MAIS-02-500	500	524.0	8.1
MAIS-02-510	510	534.0	8.1
MAIS-02-520	520	544.0	8.1
MAIS-02-530	0530	554.0	8.1
MAIS-02-540	540	564.0	8.1
MAIS-02-550	550	574.0	8.1
MAIS-02-560	560	584.0	8.1
MAIS-02-570	570	594.0	8.1
MAIS-02-580	580	604.0	8.1
MAIS-02-590	590	614.0	8.1
MAIS-02-600	600	624.0	8.1
MAIS-02-610	610	634.0	8.1
MAIS-02-620	620	644.0	8.1
MAIS-02-630	630	654.0	8.1
MAIS-02-640	640	664.0	8.1

Order No.	Cylinder Diameter	Bottom Diameter	Width
	dh9	DH9	L+0.2
MAIS-02-650	650	677.3	9.5
MAIS-02-656	656	683.3	9.5
MAIS-02-660	660	687.3	9.5
MAIS-02-680	680	707.3	9.5
MAIS-02-685	685	712.3	9.5
MAIS-02-700	700	727.3	9.5
MAIS-02-710	710	737.3	9.5
MAIS-02-730	730	757.3	9.5
MAIS-02-760	760	787.3	9.5
MAIS-02-780	780	807.3	9.5
MAIS-02-790	790	817.3	9.5
MAIS-02-800	800	827.3	9.5
MAIS-02-810	810	837.3	9.5
MAIS-02-820	820	847.3	9.5
MAIS-02-830	830	857.3	9.5
MAIS-02-850	850	877.3	9.5
MAIS-02-870	870	897.3	9.5
MAIS-02-880	880	907.3	9.5
MAIS-02-885	885	912.3	9.5
MAIS-02-890	890	917.3	9.5
MAIS-02-900	900	927.3	9.5
MAIS-02-930	930	957.3	9.5
MAIS-02-955	955	982.3	9.5
MAIS-02-1000	1000	1038.0	13.8
MAIS-02-1035	1035	1073.0	13.8
MAIS-02-1040	1040	1078.0	13.8
MAIS-02-1050/1	1050	1077.3	9.5
MAIS-02-1050	1050	1088.0	13.8
MAIS-02-1100	1100	1138.0	13.8
MAIS-02-1120	1120	1158.0	13.8
MAIS-02-1200	1200	1238.0	13.8
MAIS-02-1300/1	1300	1327.3	9.5
MAIS-02-1330	1330	1368.0	13.8
MAIS-02-1500/1	1500	1527.3	9.5
MAIS-02-1500	1500	1538.0	13.8
MAIS-02-2000	2000	2038.0	13.8

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

Used for sealing the parts with rotating or swinging rod, shaft, pin, rotary connector, it is a kind of bidirectional rotary sealing ring that can bear pressure from two sides and the alternating pressure, is installed in the groove of ISO 7425 standard, and also owns the single-action structure of high rotating speed.

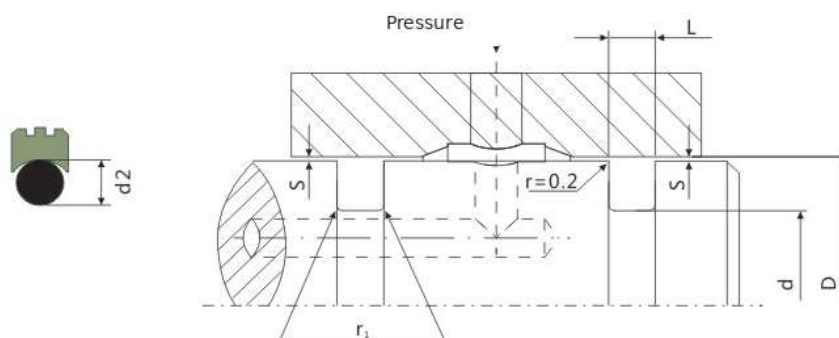
Please refer to the standards of TG4 series of Trelleborg Company and M16 series of Merker Company, OQ series of Parker Company, YRB series of AS Company when designing.

★Features

- ▣ No crawling while starting up with no stiction phenomenon
- ▣ Small friction force
- ▣ Simple groove and small dimension, having lubrication chamber
- ▣ Well abrasion resistance and dimension stability

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1m/s	0~30MPa	-30°C +200°C	Petroleum base hydraulic oil, fire-resistant fluid, biological oil, water, gas, etc., depending on the materials of O-ring	6-2000mm



Installation Dimension

Cylinder Hole Diameter D H9		Groove Diameter	Groove Width	Maximum Radial Clearance S max		Radius	Section of O-ring
Standard	Applicable	d h9	L+0.2	32MPa	50MPa	r ₁	d2
8-39.9	8-135	D-4.9	2.2	0.15	0.10	0.4	1.80
40-79.9	14-250	D-7.5	3.2	0.20	0.15	0.6	2.65
80-132.9	22-460	D-11.0	4.2	0.25	0.20	1.0	3.55
133-329.9	40-675	D-15.5	6.3	0.30	0.25	1.3	5.30
330-669.9	133-690	D-21.0	8.1	0.30	0.25	1.8	7.00
670-999.9	670-999.9	D-28.0	9.5	0.45	0.30	2.5	8.60



Specification Table

Order No.	Cylinder Hole Diameter	Groove Diameter	Groove Width
	DH9	dh9	L+0.2
MAIS-03-8	8	3.1	2.2
MAIS-03-10	10	5.1	2.2
MAIS-03-12	12	7.1	2.2
MAIS-03-14	14	9.1	2.2
MAIS-03-15	15	10.1	2.2
MAIS-03-16	16	11.1	2.2
MAIS-03-17	17	12.1	2.2
MAIS-03-18	18	13.1	2.2
MAIS-03-20	20	15.1	2.2
MAIS-03-22	22	17.1	2.2
MAIS-03-25	25	20.1	2.2
MAIS-03-28	28	23.1	2.2
MAIS-03-30	30	25.1	2.2
MAIS-03-32	32	27.1	2.2
MAIS-03-35	35	30.1	2.2
MAIS-03-36	36	31.3	2.2
MAIS-03-38	38	33.1	2.2
MAIS-03-40	40	32.5	3.2
MAIS-03-42	42	34.5	3.2
MAIS-03-45	45	37.5	3.2
MAIS-03-48	48	40.5	3.2
MAIS-03-50	50	42.5	3.2
MAIS-03-52	52	44.5	3.2
MAIS-03-53	53	45.5	3.2
MAIS-03-55	55	47.5	3.2
MAIS-03-60	60	52.5	3.2
MAIS-03-63	63	55.5	3.2
MAIS-03-65	65	57.5	3.2
MAIS-03-70	70	62.5	3.2
MAIS-03-75	75	67.5	3.2
MAIS-03-80	80	69.0	4.2
MAIS-03-85	85	74.0	4.2
MAIS-03-90	90	79.0	4.2
MAIS-03-95	95	84.0	4.2
MAIS-03-100	100	89.0	4.2
MAIS-03-102	102	91.0	4.2
MAIS-03-105	105	91.0	4.2
MAIS-03-110	110	99.0	4.2

Order No.	Cylinder Hole Diameter	Groove Diameter	Groove Width
	DH9	dh9	L+0.2
MAIS-03-115	115	104.0	4.2
MAIS-03-120	120	109.0	4.2
MAIS-03-124	124	113.0	4.2
MAIS-03-125	125	114.0	4.2
MAIS-03-127	127	116.0	4.2
MAIS-03-130	130	119.0	4.2
MAIS-03-135	135	119.5	6.3
MAIS-03-140	140	124.5	6.3
MAIS-03-150	150	134.5	6.3
MAIS-03-160	160	144.5	6.3
MAIS-03-168	168	152.5	6.3
MAIS-03-170	170	154.5	6.3
MAIS-03-175	175	159.5	6.3
MAIS-03-180	180	164.5	6.3
MAIS-03-190	190	174.5	6.3
MAIS-03-200	200	184.5	6.3
MAIS-03-210	210	194.5	6.3
MAIS-03-220	220	204.5	6.3
MAIS-03-230	230	214.5	6.3
MAIS-03-240	240	224.5	6.3
MAIS-03-250	250	234.5	6.3
MAIS-03-280	280	264.5	6.3
MAIS-03-300	300	284.5	6.3
MAIS-03-310	310	294.5	6.3
MAIS-03-320	320	304.5	6.3
MAIS-03-350	350	329.0	8.1
MAIS-03-360	360	339.0	8.1
MAIS-03-400	400	379.0	8.1
MAIS-03-420	420	399.0	8.1
MAIS-03-450	450	429.0	8.1
MAIS-03-480	480	459.0	8.1
MAIS-03-500	500	479.0	8.1
MAIS-03-510	510	489.0	8.1
MAIS-03-520	520	499.0	8.1
MAIS-03-550	550	529.0	8.1
MAIS-03-600	600	579.0	8.1
MAIS-03-650	650	629.0	8.1
MAIS-03-700	700	672.0	9.5

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

Applied for sealing the parts with rotating or swinging rod, shaft, pin, rotary connector, it is a kind of bidirectional rotary sealing ring that can bear pressure from two sides and the alternating pressure. It is installed in the groove of ISO 7425 standard, and possesses the single-action structure of high rotating speed.

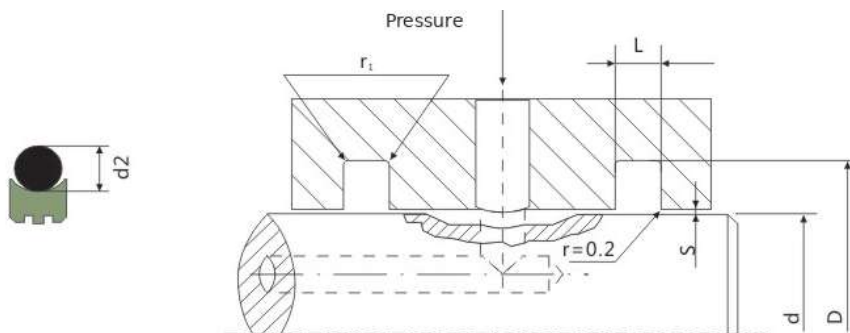
Please refer to the standards of TG3 series of Trelleborg Company and M15 series of Merkl Company, OQ series of Parker Company and XRB series of AS Company when designing.

★Features

- ▣ No crawling while starting up and no stiction phenomenon
- ▣ Small friction force
- ▣ Simple groove and small dimension, having lubrication chamber
- ▣ Well abrasion resistance and dimension stability

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1m/s	0~30MPa	-30℃ +200℃	Petroleum base hydraulic oil, fire-resistant fluid, biological oil, water, gas, etc., depending on materials of O-ring	6-2000mm



Installation Dimension

Rod Diameter d h9		Groove Diameter	Groove Width	Maximum Radial Clearance S max		Radius	Section of O-ring
Standard	Expansion	D H9	L+0.2	32MPa	50MPa	r ₁	d2
6-18.9	6-130	D+4.9	2.2	0.15	0.10	0.4	1.80
19-37.9	10-245	D+7.5	3.2	0.20	0.15	0.6	2.65
38-199.9	19-455	D+11.0	4.2	0.25	0.20	1.0	3.55
200-255.9	38-655	D+15.5	6.3	0.30	0.25	1.3	5.30
256-649.9	120-655	D+21.0	8.1	0.30	0.25	1.8	7.00
650-999.9	650-999.9	D+28.0	9.5	0.45	0.30	2.5	8.60



Specification Table

Order No.	Rod Diameter	Groove Diameter	Groove Width
	dh9	DH9	L
MAIS-04-6	6	10.9	2.2
MAIS-04-8	8	12.9	2.2
MAIS-04-10	10	14.9	2.2
MAIS-04-12	12	16.9	2.2
MAIS-04-14	14	18.9	2.2
MAIS-04-15	15	19.9	2.2
MAIS-04-16	16	20.9	2.2
MAIS-04-18	18	22.9	2.2
MAIS-04-20	20	27.5	3.2
MAIS-04-22	22	29.5	3.2
MAIS-04-25	25	32.5	3.2
MAIS-04-26	26	33.5	3.2
MAIS-04-28	28	35.5	3.2
MAIS-04-30	30	37.5	3.2
MAIS-04-32	32	39.5	3.2
MAIS-04-35	35	42.5	3.2
MAIS-04-36	36	43.5	3.2
MAIS-04-40	40	51.0	4.2
MAIS-04-42	42	53.0	4.2
MAIS-04-44	44	55.0	4.2
MAIS-04-45	45	56.0	4.2
MAIS-04-48	48	59.0	4.2
MAIS-04-50	50	61.0	4.2
MAIS-04-52	52	63.0	4.2
MAIS-04-55	55	66.0	4.2
MAIS-04-56	56	67.0	4.2
MAIS-04-60	60	71.0	4.2
MAIS-04-63	63	74.0	4.2
MAIS-04-65	65	76.0	4.2
MAIS-04-70	70	81.0	4.2
MAIS-04-75	75	86.0	4.2
MAIS-04-78	78	89.0	4.2
MAIS-04-80	80	91.0	4.2
MAIS-04-85	85	96.0	4.2
MAIS-04-90	90	101.0	4.2
MAIS-04-95	95	106.0	4.2
MAIS-04-100	100	111.0	4.2
MAIS-04-105	105	116.0	4.2

Order No.	Rod Diameter	Groove Diameter	Groove Width
	dh9	DH9	L
MAIS-04-110	110	121.0	4.2
MAIS-04-113	113	124.0	4.2
MAIS-04-115	115	126.0	4.2
MAIS-04-120	120	131.0	4.2
MAIS-04-125	125	136.0	4.2
MAIS-04-130	130	141.0	4.2
MAIS-04-135	135	146.0	4.2
MAIS-04-140	140	151.0	4.2
MAIS-04-145	145	156.0	4.2
MAIS-04-150	150	161.0	4.2
MAIS-04-155	155	166.0	4.2
MAIS-04-160	160	171.0	4.2
MAIS-04-170	170	181.0	4.2
MAIS-04-180	180	191.0	4.2
MAIS-04-190	190	201.0	4.2
MAIS-04-200	200	215.5	6.3
MAIS-04-210	210	225.5	6.3
MAIS-04-220	220	235.5	6.3
MAIS-04-240	240	255.5	6.3
MAIS-04-250	250	265.5	6.3
MAIS-04-280	280	301.0	8.1
MAIS-04-300	300	321.0	8.1
MAIS-04-320	320	341.0	8.1
MAIS-04-350	350	371.0	8.1
MAIS-04-360	360	381.0	8.1
MAIS-04-380	380	401.0	8.1
MAIS-04-400	400	421.0	8.1
MAIS-04-420	420	441.0	8.1
MAIS-04-450	450	471.0	8.1
MAIS-04-480	480	501.0	8.1
MAIS-04-500	500	521.0	8.1
MAIS-04-520	520	541.0	8.1
MAIS-04-530	530	551.0	8.1
MAIS-04-550	550	571.0	8.1
MAIS-04-600	600	621.0	8.1
MAIS-04-620	620	641.0	8.1
MAIS-04-650	650	678.0	9.5
MAIS-04-700	700	728.0	9.5

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

It is a double lip dust-proof ring composed of a wearing ring with sealing and dust-proof cutting edges and an O-ring acting as a pre-tightening element. It is applicable to severe dust or intense cold environment and high frequency reciprocating motion and mainly used for hydraulic and pneumatic devices, servo systems, chemical and food equipment.

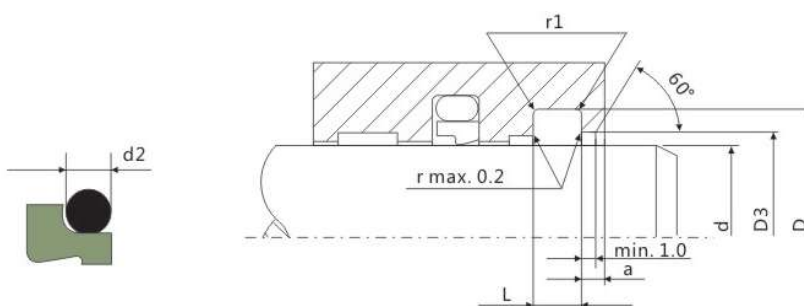
Please refer to the standards of WE3 series of Trelleborg Company and AD series of Parker Company when designing and selecting.

★Features

- ▣ Excellent sliding performance
- ▣ No stiction or crawling phenomena
- ▣ Feasible of compensating the deformation of the piston lever or plunger
- ▣ Compact structure and can save installation space
- ▣ Feasible of scraping the outside contaminant in good effect, even if it is firmly attached with soil
- ▣ Feasible of scraping the attached remaining oil film from the inner side of the piston lever surface in good effect
- ▣ Good compatibility to hydraulic medium

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available diameter Range
5m/s	-	-30°C +200°C	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others	5-2000mm



Installation Dimension

Piston Lever Diameter	Groove Diameter	Groove Width	Diameter	Width of Seam Allowance	Section of O-ring
d f8	D H9	L+0.2	D ₃ H11	a min	d2
4.0-11.9	d+4.8	3.7	dN+1.5	2.0	1.80
12.0-64.9	d+6.8	5.0	dN+1.5	2.0	2.65
65.0-250.9	d+8.8	6.0	dN+1.5	3.0	3.55
251.0-420.9	d+12.2	8.4	dN+2.0	4.0	5.30
421.0-650.9	d+16.0	11.0	dN+2.0	4.0	7.00
651.0-999.9	d+20.0	14.0	dN+2.5	5.0	8.60
>1000.0	d+20.0	14.0	dN+2.5	5.0	8.60



Specification Table

Order No.	Shaft Diameter	Bottom Diameter	Width	a
	d f8	D H9	L+0.2	
MAIS-05-4	4.0	8.8	3.7	2.0
MAIS-05-5	5.0	9.8	3.7	2.0
MAIS-05-6	6.0	10.8	3.7	2.0
MAIS-05-8	8.0	12.8	3.7	2.0
MAIS-05-10	10.0	14.8	3.7	2.0
MAIS-05-12	12.0	18.8	5.0	2.0
MAIS-05-14	14.0	20.8	5.0	2.0
MAIS-05-15	15.0	21.8	5.0	2.0
MAIS-05-16	16.0	20.8	3.7	2.0
MAIS-05-16/1	16.0	22.8	5.0	2.0
MAIS-05-18	18.0	22.8	3.7	2.0
MAIS-05-18	18.0	24.8	5.0	2.0
MAIS-05-20	20.0	26.8	5.0	2.0
MAIS-05-22	22.0	28.8	5.0	2.0
MAIS-05-25	25.0	31.8	5.0	2.0
MAIS-05-28	28.0	34.8	5.0	2.0
MAIS-05-30	30.0	34.8	3.7	2.0
MAIS-05-30/1	30.0	36.8	5.0	2.0
MAIS-05-32	32.0	38.8	5.0	2.0
MAIS-05-35	35.0	41.8	5.0	2.0
MAIS-05-36	36.0	42.8	5.0	2.0
MAIS-05-37	37.0	43.8	5.0	2.0
MAIS-05-40	40.0	46.8	5.0	2.0
MAIS-05-42	42.0	48.8	5.0	2.0
MAIS-05-45	45.0	51.8	5.0	2.0
MAIS-05-49	49.0	55.8	5.0	2.0
MAIS-05-50	50.0	56.8	5.0	2.0
MAIS-05-50.8	50.8	57.6	5.0	2.0
MAIS-05-54	54.0	60.8	5.0	2.0
MAIS-05-55	55.0	61.8	5.0	2.0
MAIS-05-56	56.0	62.8	5.0	2.0
MAIS-05-60	60.0	66.8	5.0	2.0
MAIS-05-63	63.0	69.8	5.0	2.0
MAIS-05-65	65.0	73.8	6.0	3.0
MAIS-05-70	70.0	78.8	6.0	3.0
MAIS-05-75	75.0	83.8	6.0	3.0
MAIS-05-80	80.0	88.8	6.0	3.0
MAIS-05-85	85.0	93.8	6.0	3.0

Order No.	Shaft Diameter	Bottom Diameter	Width	a
	d f8	D H9	L+0.2	
MAIS-05-90	90.0	98.8	6.0	3.0
MAIS-05-95	95.0	103.8	6.0	3.0
MAIS-05-100	100.0	108.8	6.0	3.0
MAIS-05-105	105.0	113.8	6.0	3.0
MAIS-05-110	110.0	118.8	6.0	3.0
MAIS-05-115	115.0	123.8	6.0	3.0
MAIS-05-120	120.0	128.8	6.0	3.0
MAIS-05-125	125.0	133.8	6.0	3.0
MAIS-05-130	130.0	138.8	6.0	3.0
MAIS-05-135	135.0	143.8	6.0	3.0
MAIS-05-137	137.0	145.8	6.0	3.0
MAIS-05-140	140.0	148.8	6.0	3.0
MAIS-05-145	145.0	153.8	6.0	3.0
MAIS-05-150	150.0	158.8	6.0	3.0
MAIS-05-160	160.0	168.8	6.0	3.0
MAIS-05-170	170.0	178.8	6.0	3.0
MAIS-05-180	180.0	188.8	6.0	3.0
MAIS-05-190	190.0	198.8	6.0	3.0
MAIS-05-200	200.0	208.8	6.0	3.0
MAIS-05-210	210.0	218.8	6.0	3.0
MAIS-05-220	220.0	228.8	6.0	3.0
MAIS-05-230	230.0	238.8	6.0	3.0
MAIS-05-240	240.0	248.8	6.0	3.0
MAIS-05-250	250.0	258.8	6.0	3.0
MAIS-05-260	260.0	272.2	8.4	4.0
MAIS-05-280	280.0	292.2	8.4	4.0
MAIS-05-300	300.0	312.2	8.4	4.0
MAIS-05-320	320.0	332.2	8.4	4.0
MAIS-05-350	350.0	362.2	8.4	4.0
MAIS-05-360	360.0	372.2	8.4	4.0
MAIS-05-370	370.0	382.2	8.4	4.0
MAIS-05-400	400.0	412.2	8.4	4.0
MAIS-05-440	440.0	456.0	11.0	4.0
MAIS-05-480	480.0	496.0	11.0	4.0
MAIS-05-600	600.0	616.0	11.0	4.0
MAIS-05-630	630.0	646.0	11.0	4.0
MAIS-05-680	680.0	700.0	14.0	5.0
MAIS-05-700	700.0	720.0	14.0	5.0

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★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

It is a double lip dust-proof ring composed of a wearing ring with sealing and dust-proof cutting edges and an O-ring acting as a pre-tightening element. It is applicable to severe dusts or intense cold environment and high frequency reciprocating motion and mainly used for hydraulic and pneumatic devices, servo systems, chemical and food equipment.

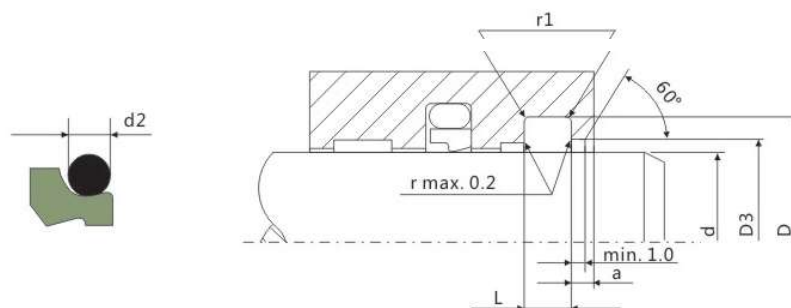
Please refer to the standards of WE5 series of Trelleborg Company and AD series of Parker Company when designing and selecting.

★Features

- ▣ Excellent sliding performance
- ▣ Firm Dust-proof ring and can be used for heavy-duty applications
- ▣ Feasible of scraping the outside contaminant in good effect, even if it is attached with firm adhesion
- ▣ Good compatibility to hydraulic Medium
- ▣ No stiction or crawling phenomena while starting up
- ▣ Feasible of compensating the larger deformation of the piston lever or plunger
- ▣ Feasible of stopping the remaining oil film attached on the piston lever surface from inner side

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	-	-30°C +200°C	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others	20-2000mm



Installation Dimension

Piston Lever Diameter	Groove Diameter	Groove Width	Diameter	Width of Seam Allowance	Section of O-ring
d f8	D H9	L+0.2	D ₃ H11	a min	d2
19.0-39.9	d+7.6	4.2	d+1.5	3.0	2.65
40.0-69.9	d+8.8	6.3	d+1.5	3.0	2.65
70.0-139.9	d+12.2	8.1	d+2.0	4.0	3.55
140.0-399.9	d+16.0	9.5	d+2.5	5.0	5.30
400.0-649.9	d+24.0	14.0	d+2.5	8.0	7.00
650.0-999.9	d+27.3	16.0	d+2.5	10.0	8.60
>1000.0	d+27.3	16.0	d+2.5	10.0	8.60



Specification Table

Order No.	Shaft Diameter	Bottom Diameter	Width	a	Order No.	Shaft Diameter	Bottom Diameter	Width	a
	d f8	D H9	L+0.2			d f8	D H9	L+0.2	
MAIS-06-20	20.0	27.6	4.2	3.0	MAIS-06-140/2	140.0	156.0	9.5	4.0
MAIS-06-25	25.0	32.6	4.2	3.0	MAIS-06-140.5	140.5	156.5	9.5	5.0
MAIS-06-28	28.0	35.6	4.2	3.0	MAIS-06-150	150.0	166.0	9.5	5.0
MAIS-06-30	30.0	37.6	4.2	3.0	MAIS-06-153	153.0	169.0	9.5	5.0
MAIS-06-32	32.0	39.6	4.2	3.0	MAIS-06-155	155.0	171.0	9.5	5.0
MAIS-06-36	36.0	43.6	4.2	3.0	MAIS-06-160	160.0	172.2	8.1	4.0
MAIS-06-40	40.0	48.8	6.3	3.0	MAIS-06-160/1	160.0	176.0	9.5	5.0
MAIS-06-42	42.0	50.8	6.3	3.0	MAIS-06-165	165.0	181.0	9.5	5.0
MAIS-06-45	45.0	53.8	6.3	3.0	MAIS-06-170	170.0	186.0	9.5	5.0
MAIS-06-50	50.0	58.8	6.3	3.0	MAIS-06-175	175.0	191.0	9.5	5.0
MAIS-06-55	55.0	63.8	6.3	3.0	MAIS-06-180	180.0	192.2	8.1	4.0
MAIS-06-56	56.0	64.8	6.3	3.0	MAIS-06-180/1	180.0	196.0	9.5	5.0
MAIS-06-60	60.0	68.8	6.3	3.0	MAIS-06-188.2	188.2	204.2	9.5	5.0
MAIS-06-63	63.0	71.8	6.3	3.0	MAIS-06-190	190.0	206.0	9.5	5.0
MAIS-06-65	65.0	73.8	6.3	3.0	MAIS-06-192	192.0	208.0	9.5	5.0
MAIS-06-70	70.0	78.8	6.3	3.0	MAIS-06-200	200.0	212.2	8.1	4.0
MAIS-06-70/1	70.0	82.2	8.1	4.0	MAIS-06-200/1	200.0	216.0	9.5	5.0
MAIS-06-75	75.0	87.2	8.1	4.0	MAIS-06-211	211.0	227.0	9.5	5.0
MAIS-06-80	80.0	88.8	6.3	6.0	MAIS-06-220	220.0	232.2	8.1	4.0
MAIS-06-80/1	80.0	92.2	8.1	4.0	MAIS-06-220/1	220.0	236.0	9.5	5.0
MAIS-06-85	85.0	97.2	8.1	4.0	MAIS-06-240	240.0	256.0	9.5	5.0
MAIS-06-90	90.0	98.8	6.3	3.0	MAIS-06-250	250.0	262.2	8.1	4.0
MAIS-06-90/1	90.0	102.2	8.1	4.0	MAIS-06-250/1	250.0	266.0	9.5	5.0
MAIS-06-97	97.0	109.2	8.1	4.0	MAIS-06-260	260.0	276.0	9.5	5.0
MAIS-06-99	99.0	111.2	8.1	4.0	MAIS-06-270	270.0	286.0	9.5	5.0
MAIS-06-100	100.0	108.8	6.3	3.0	MAIS-06-280	280.0	292.2	8.1	4.0
MAIS-06-100/1	100.0	112.2	8.1	4.0	MAIS-06-280/1	280.0	296.0	9.5	5.0
MAIS-06-105	105.0	117.2	8.1	4.0	MAIS-06-300	300.0	316.0	9.5	5.0
MAIS-06-110	110.0	118.8	6.3	3.0	MAIS-06-320	320.0	332.2	8.1	4.0
MAIS-06-110/1	110.0	122.2	8.1	4.0	MAIS-06-320/1	320.0	336.0	9.5	5.0
MAIS-06-115	115.0	127.2	8.1	4.0	MAIS-06-330	330.0	346.0	9.5	5.0
MAIS-06-120	120.0	132.2	8.1	4.0	MAIS-06-350	350.0	366.0	9.5	5.0
MAIS-06-125/1	125.0	133.8	6.3	3.0	MAIS-06-360	360.0	372.2	8.1	4.0
MAIS-06-125/2	125.0	137.2	8.1	4.0	MAIS-06-360/1	360.0	376.0	9.5	5.0
MAIS-06-125.4	125.4	137.6	8.1	4.0	MAIS-06-380	380.0	396.0	9.5	5.0
MAIS-06-130	130.0	142.2	8.1	4.0	MAIS-06-400	400.0	424.0	14.0	8.0
MAIS-06-135	135.0	147.2	8.1	4.0	MAIS-06-440	440.0	464.0	14.0	8.0
MAIS-06-140/1	140.0	152.2	8.1	4.0	MAIS-06-450	450.0	474.0	14.0	8.0



Specification Table

Order No.	Shaft Diameter	Bottom Diameter	Width	a	Order No.	Shaft Diameter	Bottom Diameter	Width	a
	d f8	D H9	L+0.2			d f8	D H9	L+0.2	
MAIS-06-480	480.0	504.0	14.0	8.0	MAIS-06-785	785.0	812.3	16.0	10.0
MAIS-06-500	500.0	524.0	14.0	8.0	MAIS-06-800	800.0	827.3	16.0	10.0
MAIS-06-560	560.0	584.0	14.0	8.0	MAIS-06-810	810.0	837.3	16.0	10.0
MAIS-06-600	600.0	624.0	14.0	10.0	MAIS-06-900	900.0	927.3	16.0	10.0
MAIS-06-650	650.0	677.3	16.0	8.0	MAIS-06-950	950.0	977.3	16.0	10.0
MAIS-06-680	680.0	707.3	16.0	10.0	MAIS-06-1000	1000.0	1027.3	16.0	10.0
MAIS-06-700	700.0	727.3	16.0	10.0	MAIS-06-1040	1040.0	1067.3	16.0	10.0
MAIS-06-770	770.0	797.3	16.0	10.0	MAIS-06-1130	1130.0	1157.3	16.0	10.0

★Material

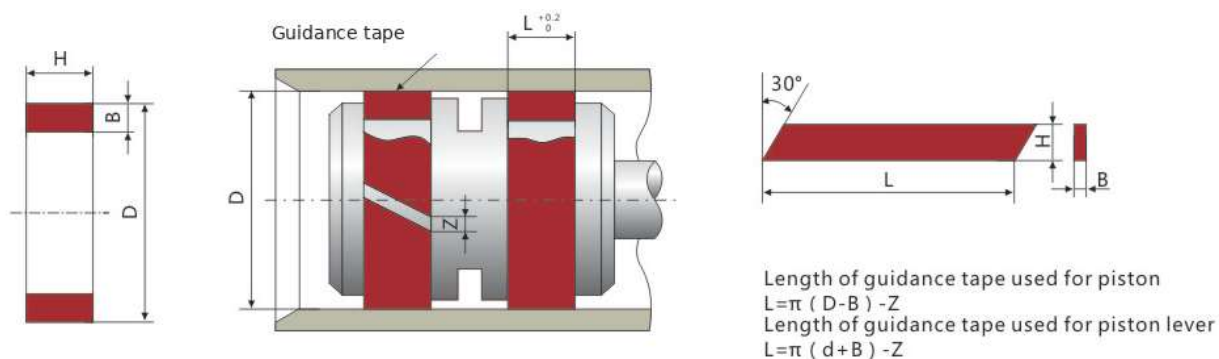
Bronze composite of PTFE

★Product Application

Sealing the piston and piston lever of the reciprocating hydraulic oil cylinder with ultrahigh pressure

★Working Conditions

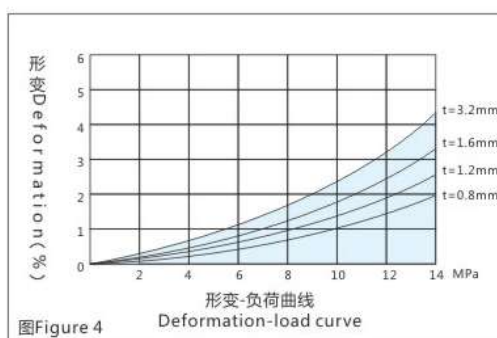
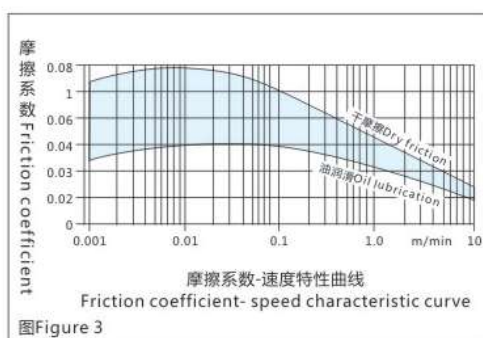
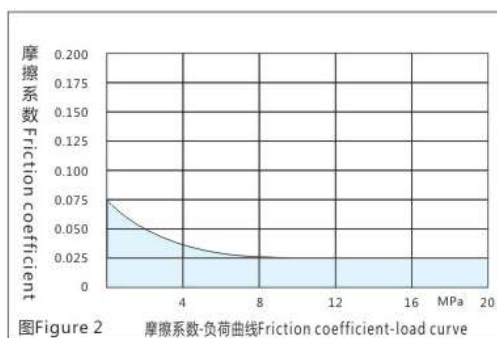
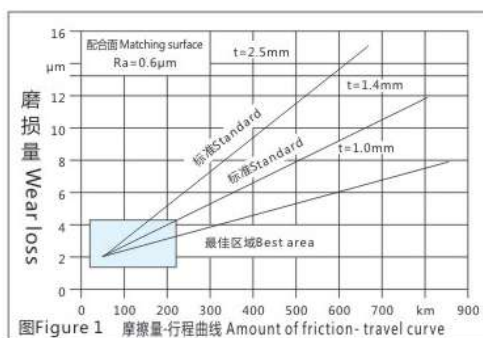
Working Temperature	Working Pressure	Working Medium	Standard Source	Order Mark	Brief Notes
-180℃~+250℃	≤63MPa	Hydraulic oil and compressed air	GB/T15242.2-94	MAIS-07-10×2.5	F ₄ 10×2.5



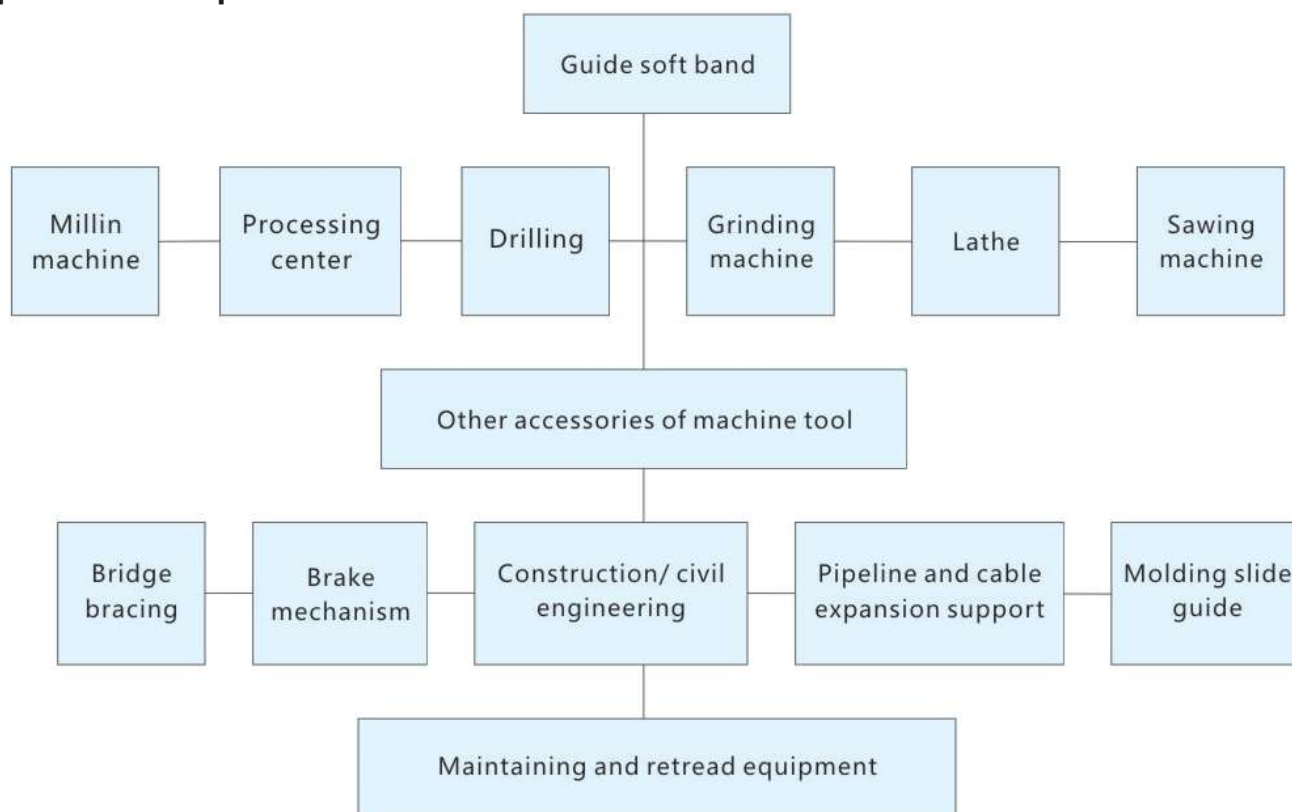
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★Features

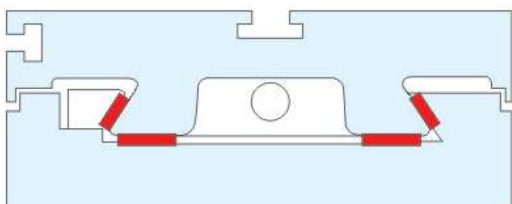
- ▣ Convenient and easy installation methods as well as good adhesive property
- ▣ Good vibration-proof property
- ▣ High wear-resistant property to ensure longer service life
- ▣ Wet resistance
- ▣ Under poor lubrication condition or the condition without lubrication, the abrasion is relatively low.
- ▣ Feasible of improving the accuracy and repeatability of positioning of machine tool
- ▣ Chemical resistance property for erosive coolant and lubricating oil
- ▣ Compatible with lubricating oil, grease and cutting fluid generally attached with machine tool



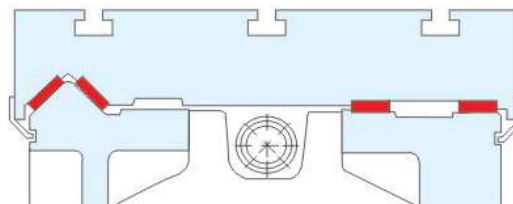
Application Example



Practical Example of Installation



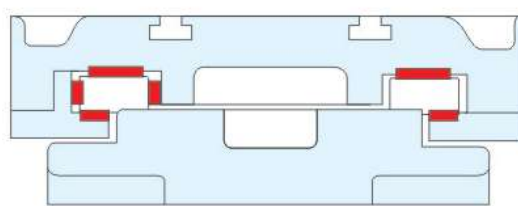
Combined flat slide guide



Wedge-type slide guide

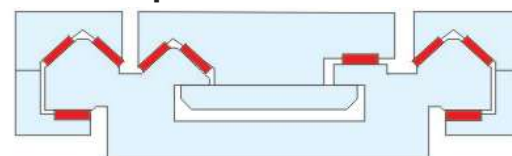


V-type slide guide

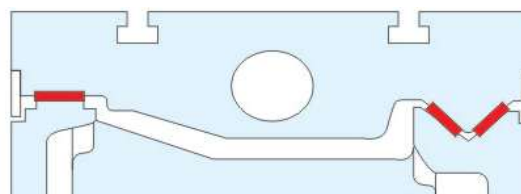


Flat slide guide

Practical Example of Installation



Combined V-type slide guide



Flat V-type slide guide

★Application on Maintenance

Used for the repair of old machine tool. By adopting soft bands of slide guide with different thicknesses, the old slide guide can be processed and restored to the original working height and central line.

★Application on Traditional Machine Tool

The wear-resistant soft band of machine tool slide guide is a kind of thermoplastic material with high performance, and is widely used on the machine tool slide guides. While ensuring the direction accuracy of the movement of sliding elements, the machine tool slide guide must also bear the weight of control assembly and workpieces, and absorb the processing pressure of indistinctive deformation, which brings key requirements. Considering the strict requirements of machine tool for accuracy, the wear-resistant material of machine tool slide guide has the features as follows:

- ▣ Providing the accuracy and repeatability of positioning during operating movement
- ▣ Relatively low production and maintenance cost
- ▣ The wearing is relatively low even under poor lubrication condition or the condition without lubrication
- ▣ Under the load condition, the impact for high reciprocating movement is small
- ▣ Possess excellent accuracy retainability in terms of the matched slide guide
- ▣ Even during the cutting process with resistance, the vibration can be reduced to the minimum degree, with excellent vibration reducing property.
- ▣ Low friction with no crawling (especially at low sliding speed with heavy load)
- ▣ Oil dirt resistance and wet resistance
- ▣ Chemical properties of erosion resistance and lubricant resistance

★Installation Instruction

※ Surface adhesive of the wear-resistant soft band of machine tool slide guide

The wear-resistant soft band is the thin plate of fluorine compound mainly, and is spliced on the metal surface roughly processed by machining through JB-1 adhesives after the activate processing.

※ Preparation for surface polishing

The material of wear-resistant soft band machine tool slide guide--- do not use sand paper to polish JBF surface that already processed or make the already processed JBF surface become coarse, otherwise, the adhesive strength will be reduced. Keep the adhesive surface clean and dry without any dirt or chemical materials (including hand print with dirt), as these factors will reduce the adhesive strength.

Metal surface--- accurately polishing the metal adhesive surface is very important for the adhesive strength. In order to reach the maximum adhesive strength, the roughness of the polished metal adhesive surface is from 1.6 to 6.3 μ m. The already grind-in or non-polished metal surface will decrease the adhesive strength, generate the phenomenon of separating at the adhesive position, and penetrate oil dirt in metal through flame during maintenance.

※ Clean the adhesive surface

To ensure the material to be clean without dirt or oil stains, use acetone or anhydrous alcohol to wash for three times at least; if the dirt or oil stains are not completely eliminated, the adhesive strip may be peeled off. When the environmental humidity is more than 90%, the adhesive strength may be reduced.

Metal surface--- to guarantee satisfied adhesive bonding, it is required to thoroughly clean the polished metal adhesive surface. It is required to use acetone or anhydrous alcohol to wash for three times at least, to ensure the original dirt to be cleaned up completely. After cleaning, keep the surfaces of metal and material clean before adhesive bonding, and do not approach any dirt.

★Installation Instruction

※ Final preparation work

After the surfaces of metal and material have been cleaned up and dried, the final cleaning must be carried out before adhesive bonding. Use a piece of white and linen-free cloth sodden with acetone or anhydrous alcohol to clean up the dirt remained on surfaces. After the final cleaning is finished, make two surfaces completely dried by gas, before adhesive bonding, and do not touch these two surfaces. After the final cleaning, do not use the compressed air to dry the surfaces, for there may be moisture or dust in compressed air to make the adhesive fall off.

※ JB-1 Adhesives Preparation

Since the two components JB-1 adhesives of our company can provide the maximum adhesive strength, it is the only designated adhesives. Take adhesives according to the volume ratio A: B=1 (0.5-1), and mix uniformly in open container or on the flat plate. The adhesives mixed uniformly must be used up as soon as possible, the higher the temperature, the shorter the service time. The container with the leftover A and B components should be covered immediately.

※ Adhesion of the two surfaces

Use the saw-toothed scraper to coat a thin layer of JB-1 adhesives evenly on the two surfaces. If the adhesive is too thin or too thick, the adhesive effect will be affected. Place the material flatly on the surface of metal adhesive surface, and then press from one end to the other, eliminate the bubbles on adhesive surface as much as possible. Use the pressing block or clamp to exert pressure (0.05MPa-0.1MPa) on the two adhesive surfaces. The curing time is about 24 hours. . If adhesive is used where the ambient temperature is below 5°C, the curing time has to be extended accordingly. . Never perform bonding operation where the ambient temperature is below -5°C.

※ Final polishing of material.

After the adhesive is fully cured, the material could be processed with a miller or grinding wheel, or by means of hand scraping. . Milling or grinding process normally requires no coolant.. Where a grinding wheel is used, enclosure-free grinding wheel and coolant are recommended to prevent overtemperature.. The use of coolant in grinding operation enables higher degree of surface finish.

※ Processing of oil groove.

To achieve the best performance of guide rail, it's essential to provide and maintain a lubricant film constantly between mating surfaces. The depth of oil groove fabricated at material surface shall not exceed material thickness. The oil groove edge is required to be provided with a transitional fillet so that the oil could flow through the surface via oil groove, thus forming a hydrodynamic film. There are lots of feasible oil groove design types successfully employed by machine manufacturers. Essentially, the oil groove shall be designed in such a manner that it diagonally or perpendicularly faces towards the travel direction, by which lubricating oil could penetrate between bond surfaces. The processed oil groove shall not be less than 6mm away from material edge.

※ Polishing of the metal mating surface

The surface smoothness of rigidity mating surface of material (usually referring to slide guide) must reach 0.4-0.8μm, to obtain the ideal performance. Do not use the superposed metal mating surface or the polishing materials; the slipping phenomenon may happen during such process, and the friction in

★Installation Instruction

movement process may also be increased; in order to get better performance, the surface area that the slide guide directly contacts with soft band must reach the maximum. The most ideal surface contacting can ensure the even lubrication distribution and uniform oil film thickness to the benefit of fluid drive.

Qualified Dimensions

Standard width: 120mm 150mm 200mm 300mm

Standard thickness: 0.4mm 0.8mm 1.1mm 1.2mm 1.4mm 1.6mm 1.7mm 2.0mm 2.5mm
3.2mm 4.0mm

Customized thickness: 0.2mm-6.0mm

Customized width: 4.0mm-300mm

★Standard Material

Sealing ring: F-PTFE

Elastic ring: NBR or FKM

★Application Range

It is a double combined ring composed of a PTFE rectangular section slip ring and a rectangular ring acting as loading elements. Apply to the hydraulic cylinder piston sealing systems of heavy duty machinery or metallurgical equipment, such as hydraulic machine and injection molding machine.

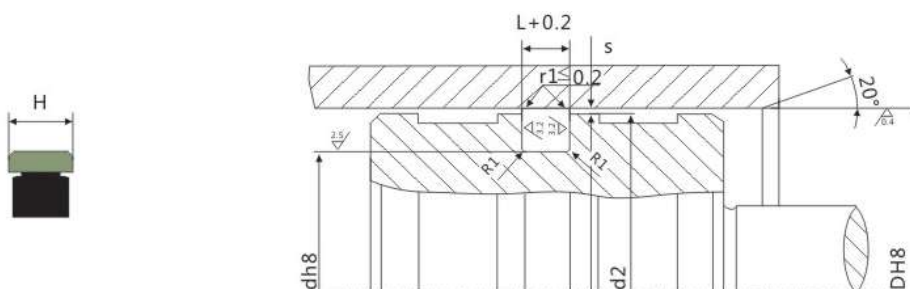
Please refer to standards of OMK-S products of Merkel Company when designing and selecting.

★Features

- ▣ High pressure resistance
- ▣ Excellent anti-extrusion characteristics
- ▣ Good thermal resistance
- ▣ Possess high contact pressure owing to the rubber special shaped ring
- ▣ Anti-twist structure
- ▣ High corrosion resistance
- ▣ Low friction with no "hydraulic crawling"

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30℃ +200℃	Hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	55-2000mm



Installation Dimension

Cylinder Diameter	Bottom Diameter	Groove Width	Fillet	Radial Clearance S max			
D H8	d h8	L+0.2	r1	16MPa	26MPa	32MPa	40MPa
55.0-149.9	D-10.0	10.0	0.4	0.60	0.50	0.40	0.40
150.0-244.9	D-12.5	12.5	0.4	0.75	0.65	0.55	0.50
245.0-500.0	D-15.0	15.0	0.8	0.75	0.65	0.55	0.50
500.1-760.0	D-17.5	17.5	1.2	0.75	0.65	0.55	0.50
760.1-999.9	D-20.0	20.0	1.2	0.80	0.70	0.60	0.55
≥1000	D-20.0	20.5	1.2	0.80	0.70	0.60	0.55



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	DH8	dh8	L+0.2
MAIS-10-55	55	40	10.0
MAIS-10-70	70	55	10.0
MAIS-10-80	80	60	10.0
MAIS-10-90	90	70	10.0
MAIS-10-100	100	80	10.0
MAIS-10-110	110	90	10.0
MAIS-10-120	120	100	10.0
MAIS-10-130	130	110	10.0
MAIS-10-140	140	120	10.0
MAIS-10-155	155	130	12.5
MAIS-10-165	165	140	12.5
MAIS-10-170	170	145	12.5
MAIS-10-180	180	155	12.5
MAIS-10-185	185	160	12.5
MAIS-10-190	190	165	12.5
MAIS-10-200	200	175	12.5
MAIS-10-205	205	180	12.5
MAIS-10-210	210	185	12.5
MAIS-10-215	215	190	12.5
MAIS-10-220	220	195	12.5
MAIS-10-225	225	200	12.5
MAIS-10-235	235	210	12.5
MAIS-10-245	245	215	15.0
MAIS-10-250	250	220	15.0
MAIS-10-260	260	230	15.0
MAIS-10-275	275	245	15.0
MAIS-10-285	285	255	15.0
MAIS-10-290	290	260	15.0
MAIS-10-310	310	280	15.0
MAIS-10-320	320	290	15.0
MAIS-10-325	325	295	15.0
MAIS-10-330	330	300	15.0
MAIS-10-335	335	305	15.0
MAIS-10-340	340	310	15.0
MAIS-10-350	350	320	15.0
MAIS-10-360	360	330	15.0
MAIS-10-370	370	340	15.0
MAIS-10-380	380	350	15.0

Order No.	Cylinder Diameter	Bottom Diameter	Width
	DH8	dh8	L+0.2
MAIS-10-390	390	360	15.0
MAIS-10-400	400	370	15.0
MAIS-10-455	455	420	17.5
MAIS-10-460	460	425	17.5
MAIS-10-460	460	430	15.0
MAIS-10-480	480	450	15.0
MAIS-10-490	490	460	15.0
MAIS-10-500	500	470	15.0
MAIS-10-510	510	475	17.5
MAIS-10-520	520	485	17.5
MAIS-10-530	530	495	17.5
MAIS-10-540	540	505	17.5
MAIS-10-550	550	515	17.5
MAIS-10-560	560	525	17.5
MAIS-10-565	565	530	17.5
MAIS-10-570	570	535	17.5
MAIS-10-580	580	545	17.5
MAIS-10-590	590	555	17.5
MAIS-10-600	600	565	17.5
MAIS-10-610	610	575	17.5
MAIS-10-620	620	585	17.5
MAIS-10-630	630	595	17.5
MAIS-10-640	640	605	17.5
MAIS-10-650	650	615	17.5
MAIS-10-655	655	620	17.5
MAIS-10-660	660	625	17.5
MAIS-10-670	670	635	17.5
MAIS-10-680	680	645	17.5
MAIS-10-690	690	655	17.5
MAIS-10-700	700	665	17.5
MAIS-10-710	710	675	17.5
MAIS-10-720	720	685	17.5
MAIS-10-730	730	695	17.5
MAIS-10-740	740	705	17.5
MAIS-10-750	750	715	17.5
MAIS-10-765	760	725	17.5
MAIS-10-770	770	730	20.0
MAIS-10-780	780	740	20.0

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★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

This is a kind of standard combined seals used in large scale applications, and it has the same performance with SPG.

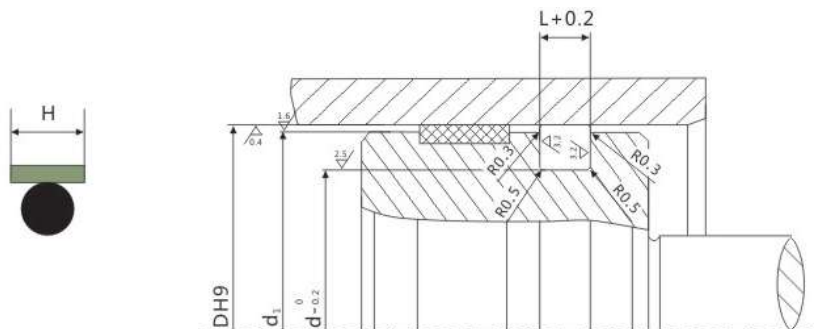
Please refer to standards of SPNO series of NOK Company, TFMA series of Merkel Company and YL series of AS Company when designing and selecting.

★Features

The used sliding material is filled with PTFE, and such seals have very low friction resistance and can eliminate crawling and guarantee high abrasion resistance. Since single seal has bidirectional sealing capability, the installation space can be eliminated.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1.5m/s	0~35MPa	-30℃ +200℃	Commonly used petroleum base hydraulic oil, water, Ethylene glycol hydraulic oil, oil and water emulsifying hydraulic oil	20-1000mm





Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-11-20	20.0	14.0	3.2
MAIS-11-25	25.0	19.0	3.2
MAIS-11-30	30.0	21.5	4.0
MAIS-11-31.5	31.5	23.0	4.0
MAIS-11-32	32.0	23.5	4.0
MAIS-11-35	35.0	26.5	4.0
MAIS-11-35.5	35.5	27.0	4.0
MAIS-11-40	40.0	31.5	4.0
MAIS-11-45	45.0	36.5	4.0
MAIS-11-50	50.0	41.5	4.0
MAIS-11-53	53.0	44.5	4.0
MAIS-11-55	55.0	46.5	4.0
MAIS-11-56	56.0	47.5	4.0
MAIS-11-60	60.0	51.5	4.0
MAIS-11-63	63.0	49.0	6.5
MAIS-11-65	65.0	51.0	6.5
MAIS-11-70	70.0	56.0	6.5
MAIS-11-71	71.0	57.0	6.5
MAIS-11-75	75.0	61.0	6.5
MAIS-11-80	80.0	66.0	6.5
MAIS-11-85	85	71	6.5
MAIS-11-90	90	76	6.5
MAIS-11-95	95	81	6.5
MAIS-11-100	100	86	6.5
MAIS-11-105	105	91	6.5
MAIS-11-110	110	96	6.5
MAIS-11-112	112	98	6.5
MAIS-11-115	115	101	6.5
MAIS-11-120	120	106	6.5

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-11-125	125	111	6.5
MAIS-11-130	130	116	6.5
MAIS-11-135	135	121	6.5
MAIS-11-140	140	126	6.5
MAIS-11-150	150	136	6.5
MAIS-11-160	160	146	6.5
MAIS-11-170	170	150	10.0
MAIS-11-180	180	160	10.0
MAIS-11-190	190	170	10.0
MAIS-11-200	200	180	10.0
MAIS-11-210	210	190	10.0
MAIS-11-220	220	200	10.0
MAIS-11-224	224	204	10.0
MAIS-11-230	230	210	10.0
MAIS-11-240	240	220	10.0
MAIS-11-250	250	230	10.0
MAIS-11-260	260	240	10.0
MAIS-11-270	270	250	10.0
MAIS-11-280	280	260	10.0
MAIS-11-290	290	270	10.0
MAIS-11-300	300	280	10.0
MAIS-11-310	310	290	10.0
MAIS-11-320	320	300	10.0
MAIS-11-340	340	320	10.0
MAIS-11-350	350	330	10.0
MAIS-11-360	360	340	10.0
MAIS-11-375	375	355	10.0
MAIS-11-380	380	360	10.0
MAIS-11-400	400	380	10.0

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

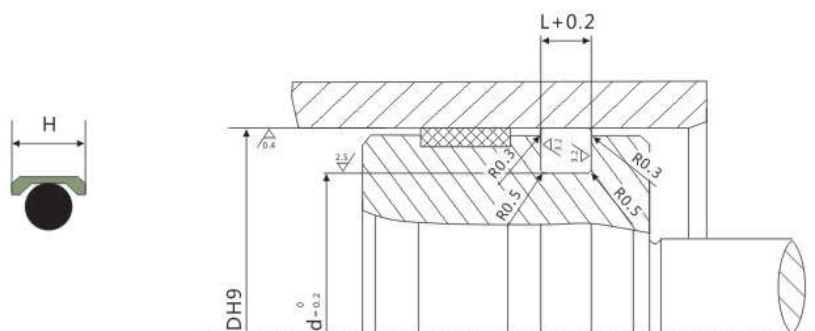
Used for the sealing systems of light or medium industries and can also be used for pneumatic equipment. Please refer to standards of SPNC series of NOK Company, PDD series of Trelleborg Company and YP series of AS Company when designing and selecting.

★Features

Getting application of force from an elastomeric O-ring, difunctional sealings can be mounted in existing O-ring grooves and show good friction characteristics, with no crawling start or excellent dry friction performance.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1.5m/s	0~35MPa	-30°C +200°C	Commonly used petroleum base hydraulic oil, water, Ethylene glycol hydraulic oil, oil and water emulsifying hydraulic oil	6-1000mm





Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-12-6	6	3	2.5
MAIS-12-7	7	4	2.5
MAIS-12-8	8	5	2.5
MAIS-12-9	9	6	2.5
MAIS-12-10	10	7	2.5
MAIS-12-11	11	8	2.5
MAIS-12-12	12	9	2.5
MAIS-12-13	13	10	2.5
MAIS-12-14	14	10	3.2
MAIS-12-15	15	11	3.2
MAIS-12-15.2	15.2	11.2	3.2
MAIS-12-16	16	12	3.2
MAIS-12-16.5	16.5	12.5	3.2
MAIS-12-18	18	14	3.2
MAIS-12-19	19	15	3.2
MAIS-12-20	20	16	3.2
MAIS-12-22	22	18	3.2
MAIS-12-24	24	20	3.2
MAIS-12-25	25	21	3.2
MAIS-12-26	26	22	3.2
MAIS-12-28	28	22	4.7
MAIS-12-28.4	28.4	22.4	4.7
MAIS-12-30	30	24.0	4.7
MAIS-12-31	31	25.0	4.7
MAIS-12-31.5	31.5	25.5	4.7
MAIS-12-34	34	28.0	4.7
MAIS-12-35	35	29	4.7

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-12-35.5	35.5	29.5	4.7
MAIS-12-36	36	30	4.7
MAIS-12-37	37	30	4.7
MAIS-12-37.5	37.5	31.5	4.7
MAIS-12-38	38	32	4.7
MAIS-12-40	40	34	4.7
MAIS-12-41	41	35	4.7
MAIS-12-41.5	41.5	35.5	4.7
MAIS-12-42	42	36	4.7
MAIS-12-44	44	38	4.7
MAIS-12-45	45	39	4.7
MAIS-12-46	46	40	4.7
MAIS-12-47	47	41	4.7
MAIS-12-48	48	42	4.7
MAIS-12-50	50	44	4.7
MAIS-12-51	51	45	4.7
MAIS-12-52	52	46	4.7
MAIS-12-54	54	48	4.7
MAIS-12-55	55	49	4.7
MAIS-12-56	56	50	4.7
MAIS-12-58	58	48	7.5
MAIS-12-60	60	50	7.5
MAIS-12-62	62	52	7.5
MAIS-12-63	63	53	7.5
MAIS-12-65	65	55	7.5
MAIS-12-66	66	56	7.5
MAIS-12-68	68	58	7.5



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-12-70	70	60	7.5
MAIS-12-72	72	62	7.5
MAIS-12-73	73	63	7.5
MAIS-12-75	75	65	7.5
MAIS-12-77	77	67	7.5
MAIS-12-80	80	70	7.5
MAIS-12-81	81	71	7.5
MAIS-12-85	85	75	7.5
MAIS-12-90	90	80	7.5
MAIS-12-95	95	85	7.5
MAIS-12-100	100	90	7.5
MAIS-12-105	105	95	7.5
MAIS-12-110	110	100	7.5
MAIS-12-112	112	102	7.5
MAIS-12-115	115	105	7.5
MAIS-12-120	120	110	7.5
MAIS-12-122	122	112	7.5
MAIS-12-125	125	115	7.5
MAIS-12-130	130	120	7.5
MAIS-12-135	135	125	7.5
MAIS-12-140	140	130	7.5
MAIS-12-142	142	132	7.5
MAIS-12-145	145	135	7.5
MAIS-12-150	150	140	7.5
MAIS-12-155	155	145	7.5
MAIS-12-160	160	150	7.5
MAIS-12-165	165	150	11
MAIS-12-170	170	155	11
MAIS-12-175	175	160	11
MAIS-12-180	180	165	11
MAIS-12-185	185	170	11
MAIS-12-190	190	175	11
MAIS-12-195	195	180	11

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-12-200	200	185	11
MAIS-12-205	205	190	11
MAIS-12-210	210	195	11
MAIS-12-215	215	200	11
MAIS-12-220	220	205	11
MAIS-12-224	224	209	11
MAIS-12-225	225	210	11
MAIS-12-230	230	215	11
MAIS-12-235	235	220	11
MAIS-12-240	240	225	11
MAIS-12-245	245	230	11
MAIS-12-250	250	235	11
MAIS-12-255	255	240	11
MAIS-12-260	260	245	11
MAIS-12-265	265	250	11
MAIS-12-270	270	255	11
MAIS-12-275	275	260	11
MAIS-12-280	280	265	11
MAIS-12-285	285	270	11
MAIS-12-290	290	275	11
MAIS-12-295	295	280	11
MAIS-12-300	300	285	11
MAIS-12-305	305	290	11
MAIS-12-310	310	295	11
MAIS-12-315	315	300	11
MAIS-12-330	330	320	11
MAIS-12-335	335	320	11
MAIS-12-350	350	335	11
MAIS-12-355	355	340	11
MAIS-12-370	370	355	11
MAIS-12-375	375	360	11
MAIS-12-390	390	375	11
MAIS-12-400	400	385	11

★Standard Material

Sealing ring: F-PTFE

O-ring: NBR or FKM

★Application Range

Used for hydraulic system, reciprocating motion and bidirectional piston seal under high pressure, low pressure and high-frequency working conditions. Apply to the conditions of long and short stroke and occasions of larger range fluid and high temperature, suitable for larger piston clearance, for example it can be used for bulldozers, pressing machines and other machine tools.

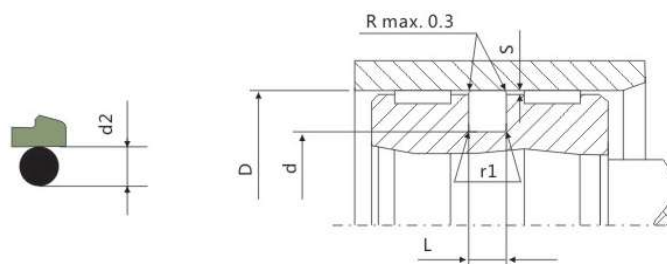
Conform to ISO 7425/1 standard. Please refer to standards of PS series of Trelleborg Company OMK-E series of Merkel Company, OG series of Parker Company and YAB series of AS Company when designing and selecting.

★Features

- ▣ Good dynamic and static sealing performance
- ▣ No occurrence of trapped pressure and can be multiply installed
- ▣ Small friction with no crawling or stiction phenomena
- ▣ Good anti-extrusion performance
- ▣ Excellent buffering to the systems subject to strong impact
- ▣ Strong corrosion resistance
- ▣ Long service life

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30°C +200°C	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	8-2000mm



Installation Dimension

Cylinder Diameter DH9			Bottom Groove Diameter	Groove Width	Fillet	Radial Clearance S max			Section of O-ring
Standard specification	Light duty	Heavy duty	dh9	L+0.2	r1	10MPa	20MPa	40MPa	d2
8-14.9	17-26.9	-	D-4.9	2.2	0.4	0.3	0.20	0.15	1.80
17-26.9	27-59.9	-	D-7.3	3.2	0.6	0.4	0.25	0.15	2.65
27-59.9	60-199.9	17-26.9	D-10.7	4.2	1.0	0.4	0.25	0.20	3.55
60-199.9	200-255.9	27-59.9	D-15.1	6.3	1.3	0.5	0.30	0.20	5.30
200-255.9	256-669.9	60-199.9	D-20.5	8.1	1.8	0.6	0.35	0.25	7.00
256-669.9	670-999.9	200-255.9	D-24.0	8.1	1.8	0.6	0.35	0.25	7.00
670-999.9	-	256-669.9	D-27.3	9.5	2.5	0.7	0.50	0.30	8.60
>1000			D-38.0	13.8	3.0	1.0	0.70	0.60	12.00



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	DH9	dh9	L+0.2
MAIS-13-8	8	3.1	2.2
MAIS-13-10	10	5.1	2.2
MAIS-13-12	12	7.1	2.2
MAIS-13-15	15	10.1	2.2
MAIS-13-18	18	10.7	3.2
MAIS-13-20/1	20	15.1	2.2
MAIS-13-20	20	12.7	3.2
MAIS-13-22	22	14.7	3.2
MAIS-13-25	25	17.7	3.2
MAIS-13-27	27	16.3	4.2
MAIS-13-28	28	17.3	4.2
MAIS-13-30	30	19.3	4.2
MAIS-13-32/1	32	24.7	3.2
MAIS-13-32	32	21.3	4.2
MAIS-13-35	35	24.3	4.2
MAIS-13-36	36	25.3	4.2
MAIS-13-38	38	27.3	4.2
MAIS-13-40/1	40	32.7	3.2
MAIS-13-40	40	29.3	4.2
MAIS-13-45	45	34.3	4.2
MAIS-13-48	48	37.3	4.2
MAIS-13-50	50	39.3	4.2
MAIS-13-50/1	50	34.9	6.3
MAIS-13-52	52	41.3	4.2
MAIS-13-55	55	44.3	4.2
MAIS-13-60	60	44.9	6.3
MAIS-13-63/1	63	52.3	4.2
MAIS-13-63	63	47.9	6.3
MAIS-13-64	64	48.9	6.3
MAIS-13-65	65	49.9	6.3
MAIS-13-70/1	70	59.3	4.2
MAIS-13-70	70	54.9	6.3
MAIS-13-75	75	59.9	6.3
MAIS-13-80	80	64.9	6.3
MAIS-13-80/1	80	59.5	8.1
MAIS-13-85	85	69.9	6.3
MAIS-13-90	90	74.9	6.3
MAIS-13-90/1	90	69.5	8.1

Order No.	Cylinder Diameter	Bottom Diameter	Width
	DH9	dh9	L+0.2
MAIS-13-95	95	79.9	6.3
MAIS-13-95/1	95	74.5	8.1
MAIS-13-100	100	84.9	6.3
MAIS-13-100/1	100	79.5	8.1
MAIS-13-110	110	94.9	6.3
MAIS-13-120	120	104.9	6.3
MAIS-13-125	125	104.5	6.3
MAIS-13-125/1	125	104.9	8.1
MAIS-13-130	130	114.9	6.3
MAIS-13-135	135	119.9	6.3
MAIS-13-140	140	124.9	6.3
MAIS-13-145	145	129.9	6.3
MAIS-13-150	150	134.9	6.3
MAIS-13-155	155	139.9	6.3
MAIS-13-160	160	144.9	6.3
MAIS-13-160/1	160	139.5	8.1
MAIS-13-165	165	149.9	6.3
MAIS-13-170	170	154.9	6.3
MAIS-13-175	175	159.9	6.3
MAIS-13-180	180	164.9	6.3
MAIS-13-180/1	180	159.5	8.1
MAIS-13-190	190	174.9	6.3
MAIS-13-190/1	190	169.5	8.1
MAIS-13-200	200	184.9	6.3
MAIS-13-200/1	200	179.5	8.1
MAIS-13-210	210	189.5	8.1
MAIS-13-220	220	204.9	6.3
MAIS-13-220/1	220	199.5	8.1
MAIS-13-230	230	209.5	8.1
MAIS-13-240	240	219.5	8.1
MAIS-13-250	250	229.5	8.1
MAIS-13-250/1	250	226.0	8.1
MAIS-13-256	256	232.0	8.1
MAIS-13-260	260	236.0	8.1
MAIS-13-270	270	246.0	8.1
MAIS-13-280	280	256.0	8.1
MAIS-13-290	290	266.0	8.1
MAIS-13-300	300	276.0	8.1



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	DH9	dh9	L+0.2
MAIS-13-310	310	286.0	8.1
MAIS-13-320	320	299.5	8.1
MAIS-13-320/1	320	296.0	8.1
MAIS-13-330	330	306.0	8.1
MAIS-13-340	340	316.0	8.1
MAIS-13-350	350	326.0	8.1
MAIS-13-360	360	336.0	8.1
MAIS-13-370	370	346.0	8.1
MAIS-13-380	380	356.0	8.1
MAIS-13-390	390	366.0	8.1
MAIS-13-400	400	376.0	8.1
MAIS-13-410	410	386.0	8.1
MAIS-13-420	420	396.0	8.1
MAIS-13-430	430	406.0	8.1
MAIS-13-440	440	416.0	8.1
MAIS-13-450	450	426.0	8.1
MAIS-13-460	460	436.0	8.1
MAIS-13-470	470	446.0	8.1
MAIS-13-480	480	456.0	8.1
MAIS-13-490	490	466.0	8.1
MAIS-13-500	500	476.0	8.1
MAIS-13-510	510	486.0	8.1
MAIS-13-520	520	496.0	8.1
MAIS-13-530	530	506.0	8.1
MAIS-13-540	540	516.0	8.1
MAIS-13-550	550	526.0	8.1
MAIS-13-560	560	536.0	8.1
MAIS-13-570	570	546.0	8.1
MAIS-13-580	580	556.0	8.1
MAIS-13-590	590	566.0	8.1

Order No.	Cylinder Diameter	Bottom Diameter	Width
	DH9	dh9	L+0.2
MAIS-13-600	600	576.0	8.1
MAIS-13-610	610	586.0	8.1
MAIS-13-620	620	596.0	8.1
MAIS-13-630	630	606.0	8.1
MAIS-13-640	640	616.0	8.1
MAIS-13-650	650	626.0	8.1
MAIS-13-660	660	636.0	8.1
MAIS-13-670	670	642.7	9.5
MAIS-13-680	680	652.7	9.5
MAIS-13-690	690	662.7	9.5
MAIS-13-700	700	672.7	9.5
MAIS-13-710	710	682.7	9.5
MAIS-13-720	720	692.7	9.5
MAIS-13-730	730	702.7	9.5
MAIS-13-740	740	712.7	9.5
MAIS-13-750	750	722.7	9.5
MAIS-13-760	760	732.7	9.5
MAIS-13-770	770	742.7	9.5
MAIS-13-780	780	752.7	9.5
MAIS-13-790	790	762.7	9.5
MAIS-13-800	800	772.7	9.5
MAIS-13-900	900	872.7	9.5
MAIS-13-920	920	892.7	9.5
MAIS-13-1000	1000	972.7	9.5
MAIS-13-1000/1	1000	962.0	13.8
MAIS-13-1200	1200	1172.7	9.5
MAIS-13-1200/1	1200	1162.0	13.8
MAIS-13-1500	1500	1462.0	13.8
MAIS-13-1600	1600	1562.0	13.8
MAIS-13-2000	2000	1962.0	13.8

★Standard Material

Sealing ring: filled polytetrafluoroethylene (F-PTFE) O-ring: nitrile rubber (NBR) or fluororubber (FKM)

★Application Range

Used for hydraulic system, reciprocating motion and bidirectional piston seal under high pressure, low pressure and high-frequency working conditions. Apply to the conditions of long and short stroke and occasions of larger range fluid and high temperature, suitable for larger piston clearance, for example it can be used for injection molding machines, bulldozers, agricultural machinery, pressing machines and other machine tools.

Conform to ISO7425/1, GB/T15242.1-94 and GB/T15242.3-94 standards.

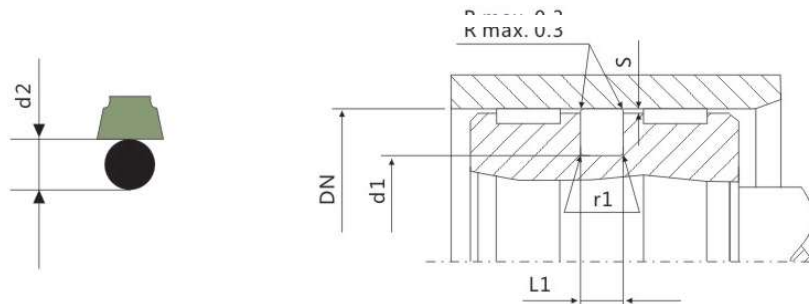
Please refer to standards of PG4 series of Trelleborg Company, OMK-MR series of Merkel Company, OE series of Parker Company and YB series of AS Company when designing.

★Features

- ▣ Good dynamic and static sealing performance
- ▣ Owing to big extrusion clearance, it can also be safely used in the Medium with sewage
- ▣ Simple groove, and can be used for integral pistons
- ▣ Hydraulic oil (biological oil) adapted to new environmental safety
- ▣ Allow bigger extrusion clearance, depending on application occasions, and can reduce the processing costs
- ▣ Small friction with no crawling phenomenon
- ▣ Strong adaptability to working conditions for multiple usable types of materials

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30℃ +200℃	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	8-2000mm



Installation Dimension

Cylinder diameter D_N f8/h9			Groove diameter	Groove Width	Fillet	Radial Clearance S max		
Standard specification	Light-duty	Heavy-duty	d_1 h9	$L_1+0.2$	r_1	10MPa	20MPa	40MPa
8-14.9	15-39.9	-	$D_N-4.9$	2.2	0.4	0.4	0.3	0.2
15-39.3	40-79.9	-	$D_N-7.5$	3.2	0.6	0.6	0.5	0.3
40-79.9	80-132.9	15-39.9	$D_N-11.0$	4.2	1.0	0.7	0.5	0.3
80-132.9	133-329.9	40-79.9	$D_N-15.5$	6.3	1.3	0.8	0.6	0.4
133-329.9	330-669.9	80-132.9	$D_N-21.0$	8.1	1.8	0.8	0.6	0.4
330-669.9	670-999.9	133-329.9	$D_N-24.5$	8.1	1.8	0.9	0.7	0.5
670-999.9	-	330-669.9	$D_N-28.0$	9.5	2.5	1.0	0.8	0.6
>1000			$D_N-38.0$	13.8	3.0	1.2	0.9	0.7

Specification Table

Order No.	Cylinder Diameter	Groove Diameter	Width
	D _N H9	d ₁ h9	L ₁ +0.2
MAIS-14-8	8	3.1	2.2
MAIS-14-10	10	5.1	2.2
MAIS-14-12	12	7.1	2.2
MAIS-14-14	14	9.1	2.2
MAIS-14-15	15	7.5	3.2
MAIS-14-16	16	11.1	2.2
MAIS-14-16	16	8.5	3.2
MAIS-14-18	18	13.1	2.2
MAIS-14-18	18	10.5	3.2
MAIS-14-19.05	19.05	11.55	3.2
MAIS-14-20	20	15.1	2.2
MAIS-14-20	20	12.5	3.2
MAIS-14-21	21	13.5	3.2
MAIS-14-22	22	17.1	2.2
MAIS-14-22	22	14.5	3.2
MAIS-14-24	24	16.5	3.2
MAIS-14-25	25	20.1	2.2
MAIS-14-25	25	17.5	3.2
MAIS-14-25	25	14.0	4.2
MAIS-14-25.4	25.4	20.5	2.2
MAIS-14-28	28	20.5	3.2
MAIS-14-30	30	22.5	3.2
MAIS-14-32	32	27.1	2.2
MAIS-14-32	32	24.5	3.2
MAIS-14-32	32	21	4.2
MAIS-14-35	35	27.5	3.2
MAIS-14-35	35	24	4.2
MAIS-14-36	36	28.5	3.2
MAIS-14-38	38	30.5	3.2
MAIS-14-40	40	32.5	3.2
MAIS-14-40	40	29	4.2
MAIS-14-42	42	31	4.2
MAIS-14-44.45	44.45	36.95	3.2
MAIS-14-45	45	34	4.2
MAIS-14-48	48	37	4.2
MAIS-14-50	50	42.5	3.2
MAIS-14-50	50	39	4.2
MAIS-14-50	50	34.5	6.3

Order No.	Cylinder Diameter	Groove Diameter	Width
	D _N H9	d ₁ h9	L ₁ +0.2
MAIS-14-50.8	50.8	43.3	3.2
MAIS-14-50.8	50.8	39.8	4.2
MAIS-14-52	52	41	4.2
MAIS-14-53	53	42	4.2
MAIS-14-55	55	44	4.2
MAIS-14-57	57	46	4.2
MAIS-14-58	58	47	4.2
MAIS-14-60	60	49	4.2
MAIS-14-62	62	51	4.2
MAIS-14-63	63	52	4.2
MAIS-14-63	63	47.5	6.2
MAIS-14-65	65	54	4.2
MAIS-14-68	68	57	4.2
MAIS-14-70	70	59	4.2
MAIS-14-70	70	54.5	6.3
MAIS-14-75	75	64	4.2
MAIS-14-75	75	59.5	6.3
MAIS-14-80	80	69	4.2
MAIS-14-80	80	64.5	6.3
MAIS-14-80	80	59	8.1
MAIS-14-82.5	82.5	67	6.3
MAIS-14-85	85	69.5	6.3
MAIS-14-85	85	64	8.1
MAIS-14-90	90	79	4.2
MAIS-14-90	90	74.5	6.3
MAIS-14-90	90	69	8.1
MAIS-14-95	95	84	4.2
MAIS-14-95	95	79.5	6.3
MAIS-14-95	95	74	8.1
MAIS-14-100	100	89	4.2
MAIS-14-100	100	84.5	6.3
MAIS-14-100	100	79	8.1
MAIS-14-101.6	101.6	86.1	6.3
MAIS-14-105	105	94	4.2
MAIS-14-105	105	89.5	6.3
MAIS-14-108	108	92.5	6.3
MAIS-14-110	110	99	4.2
MAIS-14-110	110	94.5	6.3

Specification Table

Order No.	Cylinder Diameter	Groove Diameter	Width
	D _N H9	d ₁ h9	L ₁ +0.2
MAIS-14-110	110	89	8.1
MAIS-14-115	115	99.5	6.3
MAIS-14-120	120	109	4.2
MAIS-14-120	120	104.5	6.3
MAIS-14-120	120	99	8.1
MAIS-14-125	125	114	4.2
MAIS-14-125	125	109.5	6.3
MAIS-14-125	125	104	8.1
MAIS-14-127	127	111.5	6.3
MAIS-14-130	130	114.5	6.3
MAIS-14-130	130	109	8.1
MAIS-14-132	132	121	4.2
MAIS-14-135	135	114	8.1
MAIS-14-140	140	124.5	6.3
MAIS-14-140	140	119	8.1
MAIS-14-145	145	129.5	6.3
MAIS-14-145	145	124	8.1
MAIS-14-150	150	134.5	6.3
MAIS-14-150	150	129	8.1
MAIS-14-155	155	134	8.1
MAIS-14-160	160	144.5	6.3
MAIS-14-160	160	139	8.1
MAIS-14-165	165	144	8.1
MAIS-14-170	170	149	8.1
MAIS-14-175	175	154	8.1
MAIS-14-180	180	164.5	6.3
MAIS-14-180	180	159	8.1
MAIS-14-190	190	169	8.1
MAIS-14-194	194	178.5	6.3
MAIS-14-200	200	184.5	6.3
MAIS-14-200	200	179	8.1
MAIS-14-205	205	184	8.1
MAIS-14-210	210	189	8.1
MAIS-14-215	215	194	8.1
MAIS-14-220	220	199	8.1
MAIS-14-230	230	214.5	6.3
MAIS-14-230	230	209	8.1
MAIS-14-240	240	219	8.1

Order No.	Cylinder Diameter	Groove Diameter	Width
	D _N H9	d ₁ h9	L ₁ +0.2
MAIS-14-250	250	229	8.1
MAIS-14-250	250	225.5	8.1
MAIS-14-250	250	134.5	6.3
MAIS-14-254	254	233	8.1
MAIS-14-260	260	239	8.1
MAIS-14-265	265	244	8.1
MAIS-14-268	268	247	8.1
MAIS-14-270	270	249	8.1
MAIS-14-280	280	259	8.1
MAIS-14-290	290	269	8.1
MAIS-14-300	300	279	8.1
MAIS-14-300	300	275.5	8.1
MAIS-14-304.8	304.8	283.8	8.1
MAIS-14-310	310	289	8.1
MAIS-14-320	320	299	8.1
MAIS-14-320	320	295.5	8.1
MAIS-14-330	330	305.5	8.1
MAIS-14-340	340	315.5	8.1
MAIS-14-350	350	325.5	8.1
MAIS-14-360	360	335.5	8.1
MAIS-14-370	370	345.5	8.1
MAIS-14-380	380	355.5	8.1
MAIS-14-400	400	375.5	8.1
MAIS-14-420	420	395.5	8.1
MAIS-14-430	430	405.5	8.1
MAIS-14-440	440	415.5	8.1
MAIS-14-450	450	425.5	8.1
MAIS-14-460	460	435.5	8.1
MAIS-14-480	480	455.5	8.1
MAIS-14-500	500	475.5	8.1
MAIS-14-555	555	530.5	8.1
MAIS-14-600	600	575.5	8.1
MAIS-14-640	640	615.5	8.1
MAIS-14-660	660	635.5	8.1
MAIS-14-700	700	672	9.5
MAIS-14-710	710	682	9.5
MAIS-14-740	740	712	9.5
MAIS-14-780	780	752	9.5

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★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

Used for hydraulic reciprocating motion system and sealing under high, medium and low pressure, heavy-duty as well as high frequency working conditions; applicable to the occasions of all kinds of strokes, various liquids and high temperature; suitable for larger piston clearance, for example it can be used for bulldozers, excavators, forging machines, ceramic brick press, rolling mills, servo valves and machine tools.

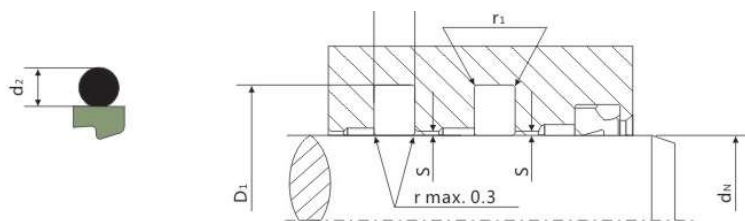
Conform to GB/T 15242.1-94 and GB/T 15242.3-94 standards. Please refer to standards of OD series of Parker Company, OMS-MR of Merkel Company, RS1 series of Trelleborg Company and XB series of AS Company when designing and selecting.

★Features

- ▣ Good dynamic and static sealing performance
- ▣ No occurrence of trapped pressure, and can be multiply installed in series
- ▣ Small friction with no crawling or stiction phenomena
- ▣ Simple groove structure and easy for installation
- ▣ Feasible of working with or without lubrication
- ▣ Good anti-extrusion performance
- ▣ Excellent buffering to the systems subject to strong impact
- ▣ Strong corrosion resistance
- ▣ Long service life

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30℃ +200℃	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	5-2000mm



Installation Dimension

Piston Rod Diameter d_N f8/h9			Bottom Groove Diameter	Groove Width	Fillet	Radial Clearance S max			Section of O-ring
Standard specification	Light-duty	Heavy-duty	D_1 H9	$L_1+0.2$	r_1	10MPa	20MPa	40MPa	d_2
3-7.9	8-18.9	-	$d_N+4.9$	2.2	0.4	0.3	0.20	0.15	1.80
8-18.9	19-37.9	-	$d_N+7.3$	3.2	0.6	0.4	0.25	0.15	2.65
19-37.9	38-199.9	8-18.9	$d_N+10.7$	4.2	1.0	0.5	0.30	0.20	3.55
38-199.9	200-255.9	19-37.9	$d_N+15.1$	6.3	1.3	0.7	0.40	0.25	5.30
200-255.9	256-649.9	38-199.9	$d_N+20.5$	8.1	1.8	0.8	0.60	0.35	7.00
256-649.9	650-999.9	200-255.9	$d_N+24.0$	8.1	1.8	0.9	0.70	0.40	7.00
650-999.9	≥ 1000.0	256-649.9	$d_N+27.3$	9.5	2.5	1.0	0.80	0.50	8.60
≥ 1000.0	-	650-999.9	$d_N+38.0$	13.8	3.0	1.2	0.90	0.60	12.00

Specification Table

Order No.	Piston Rods	Groove Diameter	Width
	$d_N f8/h9$	$D_1 H9$	$L_1 + 0.2$
MAIS-15-3	3	7.9	2.2
MAIS-15-4	4	8.9	2.2
MAIS-15-5	5	9.9	2.2
MAIS-15-6	6	10.9	2.2
MAIS-15-7	7	11.9	2.2
MAIS-15-8	8	12.9	2.2
MAIS-15-8	8	15.3	3.2
MAIS-15-9	9	13.9	2.2
MAIS-15-9	9	16.3	3.2
MAIS-15-10	10	14.9	2.2
MAIS-15-10	10	17.3	3.2
MAIS-15-12	12	16.9	2.2
MAIS-15-12	12	19.3	3.2
MAIS-15-12.7	12.7	17.6	2.2
MAIS-15-12.7	12.7	20.0	3.2
MAIS-15-14	14	18.9	2.2
MAIS-15-14	14	21.3	3.2
MAIS-15-15	15	19.9	2.2
MAIS-15-15	15	22.3	3.2
MAIS-15-16	16	20.9	2.2
MAIS-15-16	16	23.3	3.2
MAIS-15-17	17	21.9	2.2
MAIS-15-18	18	22.9	2.2
MAIS-15-18	18	25.3	3.2
MAIS-15-19	19	29.7	4.2
MAIS-15-20	20	27.3	3.2
MAIS-15-20	20	30.7	4.2
MAIS-15-22	22	29.3	3.2
MAIS-15-22	22	32.7	4.2
MAIS-15-24	24	31.3	3.2
MAIS-15-25	25	32.3	3.2
MAIS-15-25	25	35.7	4.2
MAIS-15-25.4	25.4	32.7	3.2
MAIS-15-25.4	25.4	36.1	4.2
MAIS-15-26	26	33.3	3.2
MAIS-15-26	26	36.7	4.2
MAIS-15-28	28	35.3	3.2
MAIS-15-28	28	38.7	4.2

Order No.	Piston Rods	Groove Diameter	Width
	$d_N f8/h9$	$D_1 H9$	$L_1 + 0.2$
MAIS-15-28.575	28.575	35.875	3.2
MAIS-15-30	30	37.3	3.2
MAIS-15-30	30	40.7	4.2
MAIS-15-32	32	39.3	3.2
MAIS-15-32	32	42.7	4.2
MAIS-15-35	35	42.3	3.2
MAIS-15-35	35	45.7	4.2
MAIS-15-36	36	43.3	3.2
MAIS-15-36	36	46.7	4.2
MAIS-15-37	37	44.3	3.2
MAIS-15-37	37	47.7	4.2
MAIS-15-38	38	48.7	4.2
MAIS-15-38	38	53.1	6.3
MAIS-15-40	40	50.7	4.2
MAIS-15-40	40	55.1	6.3
MAIS-15-42	42	52.7	4.2
MAIS-15-42	42	57.1	6.3
MAIS-15-43	43	53.7	4.2
MAIS-15-44.45	44.45	59.55	6.3
MAIS-15-45	45	55.7	4.2
MAIS-15-45	45	60.1	6.3
MAIS-15-48	48	58.7	4.2
MAIS-15-48	48	63.1	6.3
MAIS-15-50	50	60.7	4.2
MAIS-15-50	50	65.1	6.3
MAIS-15-50.8	50.8	61.5	4.2
MAIS-15-50.8	50.8	65.9	6.3
MAIS-15-52	52	62.7	4.2
MAIS-15-52	52	67.1	6.3
MAIS-15-54	54	69.1	6.3
MAIS-15-55	55	65.7	4.2
MAIS-15-55	55	70.1	6.3
MAIS-15-56	56	66.7	4.2
MAIS-15-56	56	71.1	6.3
MAIS-15-56	56	76.5	8.1
MAIS-15-57	57	72.1	6.3
MAIS-15-59	59	69.7	4.2
MAIS-15-60	60	70.7	4.2



Specification Table

Order No.	Piston Rods	Groove Diameter	Width
	d _N f8/h9	D ₁ H9	L ₁ +0.2
MAIS-15-60	60	75.1	6.3
MAIS-15-63	63	73.7	4.2
MAIS-15-63	63	78.1	6.3
MAIS-15-63.5	63.5	78.6	6.3
MAIS-15-65	65	75.7	4.2
MAIS-15-65	65	80.1	6.3
MAIS-15-67	67	77.7	4.2
MAIS-15-69	69	84.1	6.3
MAIS-15-70	70	80.7	4.2
MAIS-15-70	70	85.1	6.3
MAIS-15-70	70	90.5	8.1
MAIS-15-72	72	82.7	4.2
MAIS-15-73	73	88.1	6.3
MAIS-15-75	75	85.7	4.2
MAIS-15-75	75	90.1	6.3
MAIS-15-76.2	76.2	91.3	6.3
MAIS-15-78	78	93.1	6.3
MAIS-15-80	80	90.7	4.2
MAIS-15-80	80	95.1	6.3
MAIS-15-80	80	100.5	8.1
MAIS-15-82.5	82.5	97.6	6.3
MAIS-15-83	83	93.7	4.2
MAIS-15-85	85	95.7	4.2
MAIS-15-85	85	100.1	6.3
MAIS-15-85	85	105.5	8.1
MAIS-15-89	89	104.1	6.3
MAIS-15-90	90	100.7	4.2
MAIS-15-90	90	105.1	6.3
MAIS-15-90	90	110.5	8.1
MAIS-15-92	92	102.7	4.2
MAIS-15-92	92	107.1	6.3
MAIS-15-95	95	105.7	4.2
MAIS-15-95	95	110.1	6.3
MAIS-15-100	100	110.7	4.2
MAIS-15-100	100	115.1	6.3
MAIS-15-100	100	120.5	8.1
MAIS-15-101.6	101.6	116.7	6.3
MAIS-15-104.7	104.7	119.8	6.3

Order No.	Piston Rods	Groove Diameter	Width
	d _N f8/h9	D ₁ H9	L ₁ +0.2
MAIS-15-105	105	120.1	6.3
MAIS-15-105	105	125.5	8.1
MAIS-15-110	110	120.7	4.2
MAIS-15-110	110	125.1	6.3
MAIS-15-110	110	130.5	8.1
MAIS-15-115	115	130.1	6.3
MAIS-15-120	120	135.1	6.3
MAIS-15-120	120	145.5	8.1
MAIS-15-125	125	140.1	6.3
MAIS-15-125	125	145.5	8.1
MAIS-15-125.4	125.4	140.5	6.3
MAIS-15-127	127	142.1	6.3
MAIS-15-130	130	145.1	6.3
MAIS-15-130	130	150.5	8.1
MAIS-15-132	132	147.1	6.3
MAIS-15-135	135	145.7	4.2
MAIS-15-135	135	150.1	6.3
MAIS-15-137	137	152.1	6.3
MAIS-15-138	138	153.1	6.3
MAIS-15-140	140	150.7	4.2
MAIS-15-140	140	155.1	6.3
MAIS-15-140	140	160.5	8.1
MAIS-15-140.5	140.5	155.6	6.3
MAIS-15-145	145	160.1	6.3
MAIS-15-145	145	165.5	8.1
MAIS-15-150	150	165.1	6.3
MAIS-15-150	150	170.5	8.1
MAIS-15-153	153	168.1	6.3
MAIS-15-155	155	170.1	6.3
MAIS-15-160	160	175.1	6.3
MAIS-15-160	160	180.5	8.1
MAIS-15-165	165	180.1	6.3
MAIS-15-170	170	185.1	6.3
MAIS-15-170	170	190.5	8.1
MAIS-15-173	173	188.1	6.3
MAIS-15-175	175	190.1	6.3
MAIS-15-180	180	195.1	6.3
MAIS-15-180	180	200.5	8.1



Specification Table

Order No.	Piston Rods	Groove Diameter	Width
	$d_N f8/h9$	$D_1 H9$	$L_1 + 0.2$
MAIS-15-185	185	200.1	6.3
MAIS-15-185	185	205.5	8.1
MAIS-15-190	190	205.1	6.3
MAIS-15-190	190	210.5	8.1
MAIS-15-195	195	210.1	6.3
MAIS-15-200	200	215.1	6.3
MAIS-15-200	200	220.5	8.1
MAIS-15-205	205	225.5	8.1
MAIS-15-210	210	130.5	8.1
MAIS-15-211	211	231.5	8.1
MAIS-15-212	212	232.5	8.1
MAIS-15-215	215	235.5	8.1
MAIS-15-220	220	240.5	8.1
MAIS-15-225	225	245.5	8.1
MAIS-15-230	230	245.1	6.3
MAIS-15-230	230	250.5	8.1
MAIS-15-235	235	255.5	8.1
MAIS-15-240	240	260.5	8.1
MAIS-15-245	245	265.5	8.1
MAIS-15-250	250	270.5	8.1
MAIS-15-260	260	284	8.1
MAIS-15-265	265	289	8.1
MAIS-15-270	270	290.5	8.1
MAIS-15-270	270	294	8.1
MAIS-15-275	275	299	8.1
MAIS-15-280	280	304	8.1
MAIS-15-285	285	309	8.1
MAIS-15-290	290	314	8.1
MAIS-15-295	295	319	8.1
MAIS-15-300	300	320.5	8.1
MAIS-15-300	300	324	8.1
MAIS-15-310	310	334	8.1
MAIS-15-320	320	344	8.1
MAIS-15-330	330	354	8.1
MAIS-15-340	340	364	8.1
MAIS-15-350	350	370.5	8.1
MAIS-15-350	350	374	8.1
MAIS-15-360	360	384	8.1

Order No.	Piston Rods	Groove Diameter	Width
	$d_N f8/h9$	$D_1 H9$	$L_1 + 0.2$
MAIS-15-365	365	389	8.1
MAIS-15-370	370	394	8.1
MAIS-15-375	375	399	8.1
MAIS-15-380	380	404	8.1
MAIS-15-390	390	414	8.1
MAIS-15-400	400	424	8.1
MAIS-15-410	410	434	8.1
MAIS-15-420	420	444	8.1
MAIS-15-430	430	454	8.1
MAIS-15-435	435	459	8.1
MAIS-15-440	440	464	8.1
MAIS-15-450	450	474	8.1
MAIS-15-460	460	484	8.1
MAIS-15-470	470	494	8.1
MAIS-15-480	480	504	8.1
MAIS-15-485	485	509	8.1
MAIS-15-490	490	514	8.1
MAIS-15-500	500	524	8.1
MAIS-15-510	510	534	8.1
MAIS-15-520	520	544	8.1
MAIS-15-525	525	549	8.1
MAIS-15-530	530	554	8.1
MAIS-15-540	540	564	8.1
MAIS-15-550	550	574	8.1
MAIS-15-560	560	584	8.1
MAIS-15-570	570	594	8.1
MAIS-15-580	580	604	8.1
MAIS-15-585	585	609	8.1
MAIS-15-590	590	614	8.1
MAIS-15-600	600	624	8.1
MAIS-15-610	610	634	8.1
MAIS-15-620	620	644	8.1
MAIS-15-630	630	654	8.1
MAIS-15-640	640	664	8.1
MAIS-15-650	650	677.3	9.5
MAIS-15-656	656	683.3	9.5
MAIS-15-660	660	687.3	9.5
MAIS-15-680	680	707.3	9.5

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★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

Used for hydraulic reciprocating motion environment and piston lever sealing under high, medium and low pressure, heavy-duty as well as high frequency working conditions; it can especially suitable for the occasions of long stroke, various liquids and high temperature occasions; it can be applied for larger piston clearance, for example it can be used for bulldozers, excavators, forging machines, ceramic brick press, rolling mills, servo valves and other machine tools.

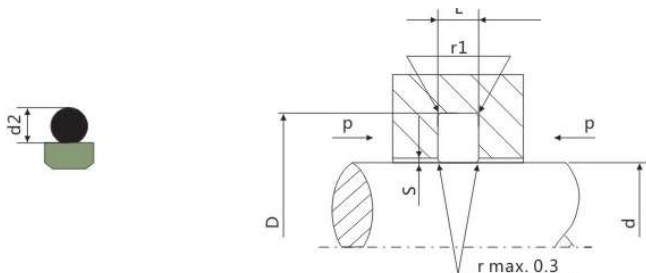
Please refer to standards of RG4 series of Trelleborg Company, ON series of Parker Company and XAB series of AS Company when designing and selecting.

★Features

- ▣ Excellent static sealing performance
- ▣ Allow for larger extrusion clearance, depending on the application occasions, and thus reduce processing costs
- ▣ Owing to the larger extrusion clearance, it can be safely used in the Medium with sewage
- ▣ Small friction with no crawling phenomenon
- ▣ Simple groove, and can be used for integral piston
- ▣ Since many kinds of materials can be adopted, it features strong adaptation to working conditions
- ▣ Applicable to the latest environmentally-safe hydraulic oil (biological oil)

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30℃ +200℃	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	5-2000mm



Installation Dimension

Cylinder Diameter DH9			Bottom Groove Diameter	Groove Width	Fillet	Radial Clearance S max			Section of O-ring
standard size	Light duty	Heavy duty	dh9	L+0.2	r1	10MPa	20MPa	40MPa	d2
3-7.9	8-18.9	-	d+4.9	2.2	0.4	0.3	0.20	0.15	1.80
8-18.9	19-37.9	-	d+7.3	3.2	0.6	0.4	0.25	0.15	2.65
19-37.9	38-199.9	8-18.9	d+10.7	4.2	1.0	0.4	0.25	0.20	3.55
38-199.9	200-255.9	19-37.9	d+15.1	6.3	1.3	0.5	0.30	0.20	5.30
200-255.9	256-649.9	38-199.9	d+20.5	8.1	1.8	0.6	0.35	0.25	7.00
256-649.9	650-999.9	200-255.9	d+24.0	8.1	1.8	0.6	0.35	0.25	7.00
650-999.9	≥1000.0	256-649.9	d+27.3	9.5	2.5	0.7	0.50	0.30	8.60
≥1000.0	-	650-999.9	d+38.0	13.8	3.0	1.0	0.70	0.60	12.00

Specification Table

Order No.	Shaft Diameter	Outer Diameter	Groove
	df9	DH9	L+0.2
MAIS-16-5	5	9.9	2.2
MAIS-16-6	6	10.9	2.2
MAIS-16-7	7	11.9	2.2
MAIS-16-8	8	15.3	3.2
MAIS-16-10	10	17.3	3.2
MAIS-16-12	12	19.3	3.2
MAIS-16-14	14	21.3	3.2
MAIS-16-15	15	22.3	3.2
MAIS-16-18	18	25.3	3.2
MAIS-16-19	19	29.7	4.2
MAIS-16-20	20	30.7	4.2
MAIS-16-22	22	32.7	4.2
MAIS-16-25	25	35.7	4.2
MAIS-16-25	25.4	36.1	4.2
MAIS-16-26	26	36.7	4.2
MAIS-16-28	28	38.7	4.2
MAIS-16-30	30	40.7	4.2
MAIS-16-32	32	42.7	4.2
MAIS-16-35	35	45.7	4.2
MAIS-16-36	36	46.7	4.2
MAIS-16-38	38	53.1	6.3
MAIS-16-40	40	55.1	6.3
MAIS-16-42	42	57.1	6.3
MAIS-16-45	45	60.1	6.3
MAIS-16-48	48	63.1	6.3
MAIS-16-50	50	65.1	6.3
MAIS-16-50.8	50.8	65.9	6.3
MAIS-16-55	55	70.1	6.3
MAIS-16-60	60	75.1	6.3
MAIS-16-63	63	78.1	6.3
MAIS-16-65	65	80.1	6.3
MAIS-16-70	70	85.1	6.3
MAIS-16-75	75	90.1	6.3
MAIS-16-80/1	80	90.7	4.2
MAIS-16-80	80	95.1	6.3
MAIS-16-85	85	100.1	6.3
MAIS-16-90	90	105.1	6.3
MAIS-16-95	95	110.1	6.3

Order No.	Shaft Diameter	Outer Diameter	Groove
	dh9	DH9	L+0.2
MAIS-16-100	100	110.7	4.2
MAIS-16-100/1	100	115.1	6.3
MAIS-16-101.6	101.6	116.7	6.3
MAIS-16-105	105	120.1	6.3
MAIS-16-110	110	125.1	6.3
MAIS-16-110/1	110	130.5	8.1
MAIS-16-112	112	127.1	6.3
MAIS-16-115	115	130.1	6.3
MAIS-16-118	118	133.1	6.3
MAIS-16-112	120	135.1	6.3
MAIS-16-125	125	140.1	6.3
MAIS-16-130	130	145.1	6.3
MAIS-16-135	135	150.1	6.3
MAIS-16-140/1	140	150.7	4.2
MAIS-16-140	140	155.1	6.3
MAIS-16-145	145	160.1	6.3
MAIS-16-150	150	165.1	6.3
MAIS-16-160	160	175.1	6.3
MAIS-16-160/1	160	180.5	8.1
MAIS-16-165	165	180.1	6.3
MAIS-16-170/1	170	180.7	4.2
MAIS-16-170	170	185.1	6.3
MAIS-16-175	175	190.1	6.3
MAIS-16-180	180	195.1	6.3
MAIS-16-180/1	180	200.5	8.1
MAIS-16-190	190	205.1	6.3
MAIS-16-200	200	215.1	6.3
MAIS-16-200/1	200	220.5	8.1
MAIS-16-210	210	230.5	8.1
MAIS-16-220/1	220	235.1	6.3
MAIS-16-220	220	240.5	8.1
MAIS-16-230/1	230	245.1	6.3
MAIS-16-230	230	250.5	8.1
MAIS-16-240	240	260.5	8.1
MAIS-16-250	250	270.5	8.1
MAIS-16-260	260	284.0	8.1
MAIS-16-270	270	290.5	8.1
MAIS-16-270/1	270	294.0	8.1



Specification Table

Order No.	Shaft Diameter	Outer Diameter	Groove
	dh9	DH9	L+0.2
MAIS-16-275	275	299.0	8.1
MAIS-16-280	280	300.5	8.1
MAIS-16-280/1	280	304.0	8.1
MAIS-16-290	290	314.0	8.1
MAIS-16-300	300	324.0	8.1
MAIS-16-310	310	334.0	8.1
MAIS-16-320	320	344.0	8.1
MAIS-16-330	330	354.0	8.1
MAIS-16-340	340	364.0	8.1
MAIS-16-350	350	374.0	8.1
MAIS-16-360	360	384.0	8.1
MAIS-16-370	370	394.0	8.1
MAIS-16-380	380	404.0	8.1
MAIS-16-390	390	414.0	8.1
MAIS-16-400	400	424.0	8.1
MAIS-16-410	410	434.0	8.1
MAIS-16-420	420	444.0	8.1
MAIS-16-430	430	454.0	8.1
MAIS-16-440	440	464.0	8.1
MAIS-16-450	450	474.0	8.1
MAIS-16-460	460	484.0	8.1
MAIS-16-470	470	494.0	8.1
MAIS-16-480	480	504.0	8.1
MAIS-16-490	490	514.0	8.1
MAIS-16-500	500	524.0	8.1
MAIS-16-510	510	534.0	8.1
MAIS-16-520	520	544.0	8.1
MAIS-16-530	530	554.0	8.1
MAIS-16-540	540	564.0	8.1
MAIS-16-550	550	574.0	8.1
MAIS-16-580	580	604.0	8.1
MAIS-16-590	590	614.0	8.1
MAIS-16-600	600	624.0	8.1
MAIS-16-610	610	634.0	8.1
MAIS-16-620	620	644.0	8.1
MAIS-16-630	630	654.0	8.1
MAIS-16-640	640	664.0	8.1
MAIS-16-650	650	677.3	9.5
MAIS-16-660	660	687.3	9.5
MAIS-16-670	670	697.3	9.5
MAIS-16-680	680	707.3	9.5
MAIS-16-688	688	715.3	9.5
MAIS-16-690	690	717.3	9.5
MAIS-16-710	710	737.3	9.5
MAIS-16-740	740	767.3	9.5
MAIS-16-770	770	797.3	9.5
MAIS-16-800	800	827.3	9.5
MAIS-16-850	850	877.3	9.5
MAIS-16-870	870	897.3	9.5
MAIS-16-900	900	927.3	9.5
MAIS-16-910	910	937.3	9.5
MAIS-16-950	950	977.3	9.5
MAIS-16-960	960	987.3	9.5
MAIS-16-1000	1000	1027.3	9.5
MAIS-16-1000/1	1000	1038.0	13.8
MAIS-16-1050/1	1050	1077.3	9.5
MAIS-16-1050	1050	1088.0	13.8
MAIS-16-1100	1100	1138.0	13.8
MAIS-16-1160	1160	1198.0	13.8
MAIS-16-1200/1	1200	1227.3	9.5
MAIS-16-1200	1200	1238.0	13.8
MAIS-16-1300/1	1300	1327.3	9.5
MAIS-16-1300	1300	1338.0	13.8
MAIS-16-1500/1	1500	1527.3	9.5
MAIS-16-1500	1500	1538.0	13.8
MAIS-16-1600	1600	1638.0	13.8
MAIS-16-1800	1800	1838.0	13.8
MAIS-16-2000	2000	2038.0	13.8A

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

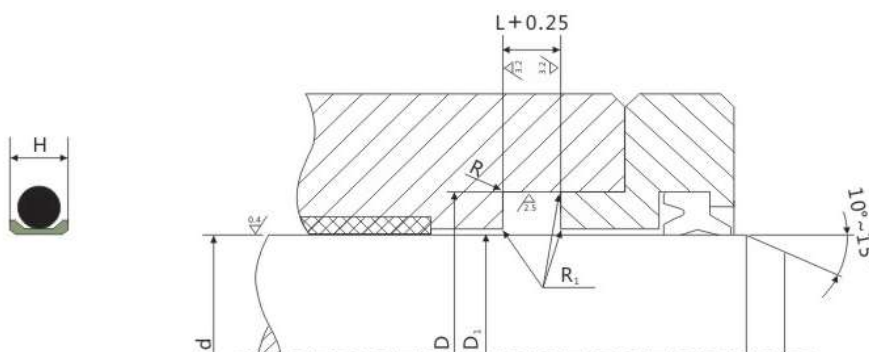
★Features

The sliding material is F-PTFE and the sealing ring features low friction resistance, so it can eliminate the crawling and ensure high abrasion resistance. Since single sealing features bidirectional sealing ability, the installation space can be saved; this sealing ring can be installed on the groove of the O-ring and features lower sliding friction compared with the O-ring, so it can guarantee high durability; and can also be used for pneumatic equipment.

Please refer to the standards of SPNC series of NOK Company and RDD series of Trelleborg Company when designing and selecting.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1.5m/s	0~35MPa	-30°C +200°C	Commonly used petroleum base hydraulic oil, water-glycol hydraulic oil, oil-water emulsifying hydraulic oil	5-1000mm



Specification Table

Order No.	Nominal Dimension of Sealing			L+0.2
	d	D	H	
MAIS-17-3	3	6	2.3	2.5
MAIS-17-4	4	7	2.3	2.5
MAIS-17-5	5	8	2.3	2.5
MAIS-17-6	6	9	2.3	2.5
MAIS-17-7	7	10	2.3	2.5
MAIS-17-8	8	11	2.3	2.5
MAIS-17-9	9	12	2.3	2.5
MAIS-17-10	10	13	2.3	2.5
MAIS-17-10	10	14	3.0	3.2
MAIS-17-11	11	15	3.0	3.2
MAIS-17-11.2	11.2	15.2	3.0	3.2
MAIS-17-12	12	16	3.0	3.2
MAIS-17-12.5	12.5	16.5	3.0	3.2
MAIS-17-14	14	18	3.0	3.2
MAIS-17-15	15	19	3.0	3.2
MAIS-17-16	16	20	3.0	3.2
MAIS-17-18	18	22	3.0	3.2
MAIS-17-20	20	24	3.0	3.2
MAIS-17-21	21	25	3.0	3.2
MAIS-17-22	22	26	3.0	3.2
MAIS-17-22	22	28	4.4	4.7
MAIS-17-22.4	22.4	28.4	4.4	4.7
MAIS-17-24	24	30	4.4	4.7
MAIS-17-25	25	31	4.4	4.7
MAIS-17-25.5	25.5	31.5	4.4	4.7
MAIS-17-26	26	32	4.4	4.7
MAIS-17-28	28	34	4.4	4.7
MAIS-17-29	29	35	4.4	4.7
MAIS-17-29.5	29.5	35.5	4.4	4.7

Order No.	Nominal Dimension of Sealing			L+0.2
	d	D	H	
MAIS-17-30	30	36	4.4	4.7
MAIS-17-31	31	37	4.4	4.7
MAIS-17-31.5	31.5	37.5	4.4	4.7
MAIS-17-32	32	38	4.4	4.7
MAIS-17-34	34	40	4.4	4.7
MAIS-17-35	35	41	4.4	4.7
MAIS-17-35.5	35.5	41.5	4.4	4.7
MAIS-17-36	36	42	4.4	4.7
MAIS-17-38	38	44	4.4	4.7
MAIS-17-39	39	45	4.4	4.7
MAIS-17-40	40	46	4.4	4.7
MAIS-17-41	41	47	4.4	4.7
MAIS-17-42	42	48	4.4	4.7
MAIS-17-44	44	50	4.4	4.7
MAIS-17-45	45	51	4.4	4.7
MAIS-17-46	46	52	4.4	4.7
MAIS-17-48	48	54	4.4	4.7
MAIS-17-49	49	55	4.4	4.7
MAIS-17-50	50	56	4.4	4.7
MAIS-17-48/1	48	58	7.0	7.5
MAIS-17-50/1	50	60	7.0	7.5
MAIS-17-52	52	62	7.0	7.5
MAIS-17-53	53	63	7.0	7.5
MAIS-17-55	55	65	7.0	7.5
MAIS-17-56	56	66	7.0	7.5
MAIS-17-58	58	68	7.0	7.5
MAIS-17-60	60	70	7.0	7.5
MAIS-17-62	62	72	7.0	7.5
MAIS-17-63	63	73	7.0	7.5



Specification Table

Order No.	Nominal Dimension of Sealing			L+0.2
	d	D	H	
MAIS-17-65	65	75	7.0	7.5
MAIS-17-67	67	77	7.0	7.5
MAIS-17-70	70	80	7.0	7.5
MAIS-17-71	71	81	7.0	7.5
MAIS-17-75	75	85	7.0	7.5
MAIS-17-80	80	90	7.0	7.5
MAIS-17-85	85	95	7.0	7.5
MAIS-17-90	90	100	7.0	7.5
MAIS-17-95	95	105	7.0	7.5
MAIS-17-100	100	110	7.0	7.5
MAIS-17-102	102	112	7.0	7.5
MAIS-17-105	105	115	7.0	7.5
MAIS-17-110	110	120	7.0	7.5
MAIS-17-112	112	122	7.0	7.5
MAIS-17-115	115	125	7.0	7.5
MAIS-17-120	120	130	7.0	7.5
MAIS-17-125	125	135	7.0	7.5
MAIS-17-130	130	140	7.0	7.5
MAIS-17-132	132	142	7.0	7.5
MAIS-17-135	135	145	7.0	7.5
MAIS-17-140	140	150	7.0	7.5
MAIS-17-145	145	155	7.0	7.5
MAIS-17-150	150	160	7.0	7.5
MAIS-17-150/1	150	165	10.5	11
MAIS-17-155	155	170	10.5	11
MAIS-17-160	160	175	10.5	11
MAIS-17-165	165	180	10.5	11
MAIS-17-170	170	185	10.5	11
MAIS-17-175	175	190	10.5	11
MAIS-17-180	180	195	10.5	11
MAIS-17-185	185	200	10.5	11

Order No.	Nominal Dimension of Sealing			L+0.2
	d	D	H	
MAIS-17-190	190	205	10.5	11
MAIS-17-195	195	210	10.5	11
MAIS-17-200	200	215	10.5	11
MAIS-17-205	205	220	10.5	11
MAIS-17-209	209	224	10.5	11
MAIS-17-210	210	225	10.5	11
MAIS-17-215	215	230	10.5	11
MAIS-17-220	220	235	10.5	11
MAIS-17-225	225	240	10.5	11
MAIS-17-230	230	245	10.5	11
MAIS-17-235	235	250	10.5	11
MAIS-17-240	240	255	10.5	11
MAIS-17-245	245	260	10.5	11
MAIS-17-250	250	265	10.5	11
MAIS-17-255	255	270	10.5	11
MAIS-17-260	260	275	10.5	11
MAIS-17-265	265	280	10.5	11
MAIS-17-270	270	285	10.5	11
MAIS-17-275	275	290	10.5	11
MAIS-17-280	280	295	10.5	11
MAIS-17-285	285	300	10.5	11
MAIS-17-290	290	305	10.5	11
MAIS-17-295	295	310	10.5	11
MAIS-17-300	300	315	10.5	11
MAIS-17-315	315	330	10.5	11
MAIS-17-320	320	335	10.5	11
MAIS-17-335	335	350	10.5	11
MAIS-17-340	340	355	10.5	11
MAIS-17-355	355	370	10.5	11
MAIS-17-360	360	375	10.5	11
MAIS-17-375	375	390	10.5	11

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

This is a standard combined sealing ring which can be used for various operations.

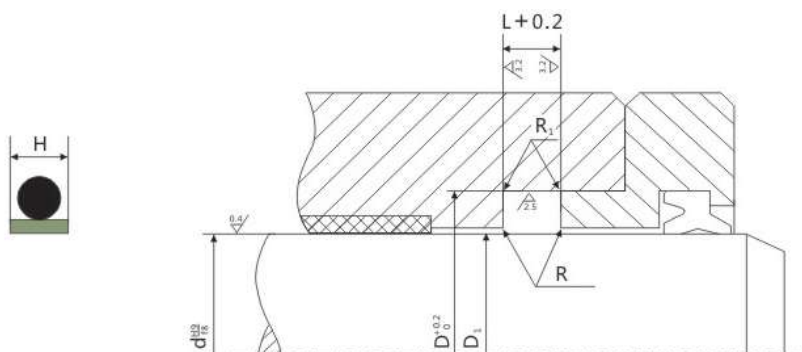
Please refer to the standards of SPNO series of NOK Company when designing and selecting.

★Features

The sliding material is F-PTFE and the sealing ring features low friction resistance, so it can eliminate the crawling and ensure high abrasion resistance.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1.5m/s	0~35MPa	-30°C +200°C	Commonly used petroleum base hydraulic oil, water, Ethylene glycol hydraulic oil, oil-water emulsifying hydraulic oil	12-1000mm



Specification Table

Order No.	Nominal Dimension of Sealing			L+0.2
	d	D	H	
MAIS-18-12	12	18	3.0	3.2
MAIS-18-14	14	20	3.0	3.2
MAIS-18-16	16	22	3.0	3.2
MAIS-18-18	18	24	3.0	3.2
MAIS-18-20	20	26	3.0	3.2
MAIS-18-22	22	31	3.8	4.0
MAIS-18-25	25	34	3.8	4.0
MAIS-18-28	28	37	3.8	4.0
MAIS-18-30	30	39	3.8	4.0
MAIS-18-32	32	41	3.8	4.0
MAIS-18-36	36	45	3.8	4.0
MAIS-18-40	40	49	3.8	4.0
MAIS-18-45	45	54	3.8	4.0
MAIS-18-50	50	65	6.3	6.5
MAIS-18-56	56	71	6.3	6.5
MAIS-18-60	60	75	6.3	6.5
MAIS-18-63	63	78	6.3	6.5
MAIS-18-70	70	85	6.3	6.5
MAIS-18-75	75	90	6.3	6.5
MAIS-18-80	80	95	6.3	6.5
MAIS-18-85	85	100	6.3	6.5
MAIS-18-90	90	105	6.3	6.5
MAIS-18-95	95	110	6.3	6.5
MAIS-18-100	100	115	6.3	6.5
MAIS-18-105	105	120	6.3	6.5
MAIS-18-110	110	125	6.3	6.5
MAIS-18-115	115	130	6.3	6.5
MAIS-18-120	120	135	6.3	6.5
MAIS-18-125	125	140	6.3	6.5

Order No.	Nominal Dimension of Sealing			L+0.2
	d	D	H	
MAIS-18-130	130	145	6.3	6.5
MAIS-18-135	135	150	6.3	6.5
MAIS-18-140	140	155	6.3	6.5
MAIS-18-145	145	160	6.3	6.5
MAIS-18-150	150	170	9.8	10.0
MAIS-18-160	160	180	9.8	10.0
MAIS-18-170	170	190	9.8	10.0
MAIS-18-180	180	200	9.8	10.0
MAIS-18-190	190	210	9.8	10.0
MAIS-18-200	200	220	9.8	10.0
MAIS-18-210	210	230	9.8	10.0
MAIS-18-220	220	240	9.8	10.0
MAIS-18-224	224	244	9.8	10.0
MAIS-18-230	230	250	9.8	10.0
MAIS-18-240	240	260	9.8	10.0
MAIS-18-250	250	270	9.8	10.0
MAIS-18-260	260	280	9.8	10.0
MAIS-18-270	270	290	9.8	10.0
MAIS-18-280	280	300	9.8	10.0
MAIS-18-290	290	310	9.8	10.0
MAIS-18-300	300	320	9.8	10.0
MAIS-18-310	310	330	9.8	10.0
MAIS-18-320	320	340	9.8	10.0
MAIS-18-330	330	350	9.8	10.0
MAIS-18-340	340	360	9.8	10.0
MAIS-18-350	350	370	9.8	10.0
MAIS-18-360	360	380	9.8	10.0
MAIS-18-370	370	390	9.8	10.0
MAIS-18-380	380	400	9.8	10.0

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

This sealing ring is used for conditions of extensive pressure and high sliding speed.

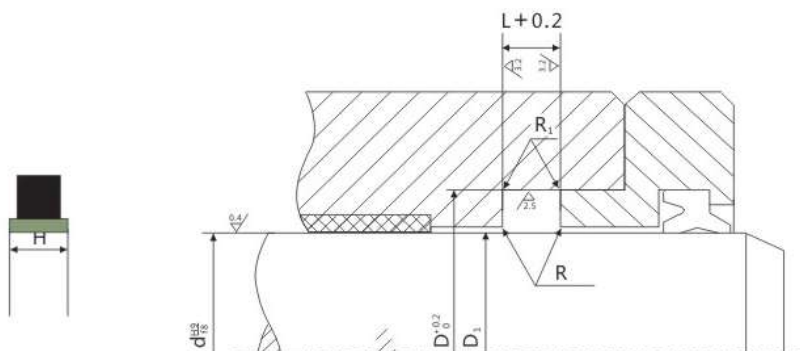
Please refer to the standards of SPN series of NOK Company when designing and selecting.

★Features

The sliding material is F-PTFE and the sealing ring features low friction resistance, so it can eliminate the crawling and ensure high abrasion resistance.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1.5m/s	0~35MPa	-30°C +200°C	Commonly used petroleum base hydraulic oil, water, Ethylene glycol hydraulic oil, oil-water emulsifying hydraulic oil	18-500mm



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★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR

★Application Range

It is a double combined sealing which is consisted of one PTFE profiled section sliding ring and one rectangular ring acting as the preload element. It especially suitable for larger piston lever diameter and piston lever sealing system of heavy-duty hydraulic cylinder under severe working conditions, for example, it can be used for injection molding machines, metallurgical machinery, marine hydraulic equipment, hydraulic machines, construction machinery, cranes and hydraulic control systems.

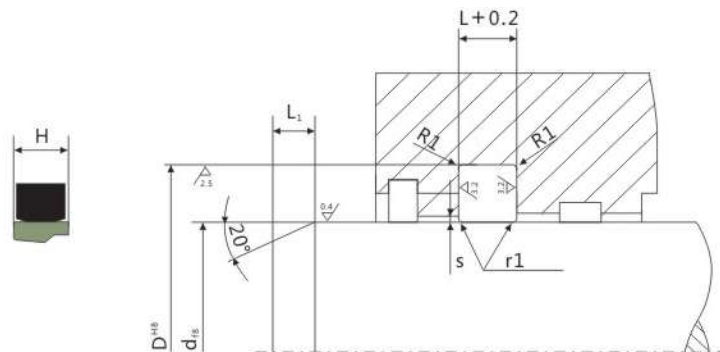
Please refer to standards of OMS-S products of Merkel Company when designing and selecting.

★Features

- ▣ High pressure-tolerant characteristics
- ▣ Strong ability of anti-extrusion clearance
- ▣ Adoption of anti-twist design
- ▣ High abrasion resistance performance
- ▣ Low friction with no "hydraulic crawling" will be caused

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	0~60MPa	-30℃ +200℃	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	50-2000mm



Installation Dimension

Shaft Diameter d f8	Outer Diameter D H8	Groove Width L+0.2	Installation Chamfer L ₁	Fillet r1	Radial Clearance S max		
					10MPa	20MPa	40MPa
50-69.9	d+15.0	7.5	5.0	0.4	0.5	0.4	0.3
70-200	d+20.0	10.0	6.0	0.4	0.7	0.5	0.4
210-300	d+25.0	12.5	8.5	0.4	0.8	0.6	0.5
310-540	d+30.0	15.0	10.0	0.8	0.9	0.7	0.6
545-690	d+35.0	17.5	13.0	1.2	1.0	0.8	0.7
700-1500	d+40.0	20.0	15.0	1.2	1.0	0.8	0.7



Specification Table

Order No.	Shaft Diameter	Outer Diameter	Groove
	df8	DH8	L+0.2
MAIS-20-50	50	65	7.5
MAIS-20-60	60	75	7.5

Order No.	Cylinder Diameter	Bottom Diameter	Width
	df8	DH8	L+0.2
MAIS-20-70	70	85	7.5
MAIS-20-75	75	95	10.0



Specification Table

Order No.	Shaft Diameter	Outer Diameter	Groove
	df8	DH8	L+0.2
MAIS-20-80	80	100	10.0
MAIS-20-100	100	120	10.0
MAIS-20-110	110	130	10.0
MAIS-20-115	115	135	10.0
MAIS-20-120	120	140	10.0
MAIS-20-130	130	150	10.0
MAIS-20-140	140	160	10.0
MAIS-20-145	145	165	10.0
MAIS-20-150	150	170	10.0
MAIS-20-160	160	180	10.0
MAIS-20-170	170	190	10.0
MAIS-20-175	175	195	10.0
MAIS-20-180	180	200	10.0
MAIS-20-200	200	220	10.0
MAIS-20-230	230	255	12.5
MAIS-20-240	240	265	12.5
MAIS-20-250	250	275	12.5
MAIS-20-260	260	285	12.5
MAIS-20-265	265	290	12.5
MAIS-20-270	270	295	12.5
MAIS-20-280	280	305	12.5
MAIS-20-290	290	315	12.5
MAIS-20-300	300	325	12.5
MAIS-20-310	310	340	15.0
MAIS-20-315	315	345	15.0
MAIS-20-320	320	350	15.0
MAIS-20-325	325	355	15.0
MAIS-20-330	330	360	15.0
MAIS-20-340	340	370	15.0
MAIS-20-350	350	380	15.0
MAIS-20-360	360	390	15.0
MAIS-20-370	370	400	15.0
MAIS-20-380	380	410	15.0
MAIS-20-390	390	420	15.0
MAIS-20-400	400	430	15.0
MAIS-20-410	410	440	15.0
MAIS-20-420	420	450	15.0
MAIS-20-430	430	460	15.0

Order No.	Cylinder Diameter	Bottom Diameter	Width
	df8	DH8	L+0.2
MAIS-20-435	435	465	15.0
MAIS-20-440	440	470	15.0
MAIS-20-445	445	475	15.0
MAIS-20-450	450	480	15.0
MAIS-20-460	460	490	15.0
MAIS-20-470	470	500	15.0
MAIS-20-480	480	510	15.0
MAIS-20-490	490	520	15.0
MAIS-20-500	500	530	15.0
MAIS-20-510	510	540	15.0
MAIS-20-520	520	550	15.0
MAIS-20-530	530	560	15.0
MAIS-20-540	540	575	15.0
MAIS-20-545	545	580	17.5
MAIS-20-550	550	585	17.5
MAIS-20-560	560	595	17.5
MAIS-20-570	570	605	17.5
MAIS-20-580	580	615	17.5
MAIS-20-590	590	625	17.5
MAIS-20-600	600	635	17.5
MAIS-20-620	620	655	17.5
MAIS-20-630	630	665	17.5
MAIS-20-640	640	675	17.5
MAIS-20-645	645	680	17.5
MAIS-20-650	650	685	17.5
MAIS-20-660	660	695	17.5
MAIS-20-670	670	705	17.5
MAIS-20-680	680	715	17.5
MAIS-20-690	690	725	17.5
MAIS-20-700	700	740	20.0
MAIS-20-720	720	760	20.0
MAIS-20-730	730	770	20.0
MAIS-20-740	740	780	20.0
MAIS-20-750	750	790	20.0
MAIS-20-760	760	800	20.0
MAIS-20-770	770	810	20.0
MAIS-20-790	790	830	20.0
MAIS-20-800	800	840	20.0

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

This is a kind of standard combined seals used in large scale applications.

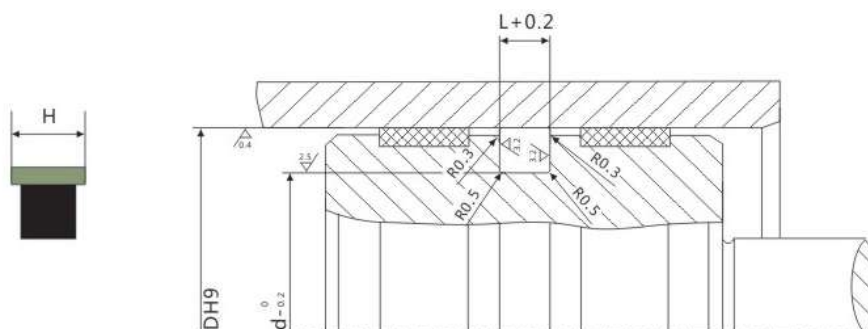
Please refer to standards of SPN series of NOK Company when designing and selecting.

★Features

The used sliding material is filled with PTFE, and such seals have very low friction and thus can eliminate crawling to guarantee high abrasion resistance. Since single seal has a bidirectional sealing capability, the installation space can be eliminated.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1.5m/s	0~35MPa	-30°C +200°C	Commonly used petroleum base hydraulic oil, water, Ethylene glycol hydraulic oil, oil and water emulsifying hydraulic oil	30-1650mm



Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-21-30	30	20.5	4.5
MAIS-21-31.5	31.5	22	4.5
MAIS-21-32	32	22.5	4.5
MAIS-21-35	35	25.5	4.5
MAIS-21-35.5	35.5	26	4.5
MAIS-21-40	40	30	4.5
MAIS-21-45	45	35	4.5
MAIS-21-50	50	40	4.5
MAIS-21-55	55	45	4.5
MAIS-21-56	56	46	4.5
MAIS-21-60	60	50	4.5
MAIS-21-63	63	48	7.5
MAIS-21-65	65	50	7.5
MAIS-21-69	69	54	7.5
MAIS-21-70	70	55	7.5
MAIS-21-71	71	56	7.5
MAIS-21-75	75	60	7.5
MAIS-21-80	80	65	7.5
MAIS-21-85	85	70	7.5
MAIS-21-90	90	75	7.5
MAIS-21-95	95	80	7.5
MAIS-21-100	100	85	7.5
MAIS-21-108	108	92	7.5
MAIS-21-110	110	94	7.5
MAIS-21-112	112	96	7.5
MAIS-21-120	120	104	7.5
MAIS-21-125	125	109	7.5
MAIS-21-130	130	114	7.5

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-21-140	140	124	7.5
MAIS-21-145	145	129	7.5
MAIS-21-150	150	134	7.5
MAIS-21-155	155	139	7.5
MAIS-21-160	160	144	7.5
MAIS-21-170	170	148	11
MAIS-21-180	180	158	11
MAIS-21-190	190	168	11
MAIS-21-200	200	178	11
MAIS-21-204	204	182	11
MAIS-21-210	210	188	11
MAIS-21-220	220	198	11
MAIS-21-224	224	202	11
MAIS-21-225	225	203	11
MAIS-21-230	230	208	11
MAIS-21-240	240	218	11
MAIS-21-250	250	228	11
MAIS-21-260	260	236	12
MAIS-21-270	270	246	12
MAIS-21-280	280	256	12
MAIS-21-290	290	266	12
MAIS-21-300	300	276	12
MAIS-21-310	310	286	12
MAIS-21-320	320	296	12
MAIS-21-330	330	308	10
MAIS-21-360	360	336	12
MAIS-21-485	485	455	15
MAIS-21-500	500	470	15

Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-21-550	550	515	17.5
MAIS-21-600	600	570	15
MAIS-21-650	650	620	15
MAIS-21-720	720	690	15
MAIS-21-800	800	785	13
MAIS-21-900	900	870	15
MAIS-21-930	930	890	20
MAIS-21-935	935	920	13
MAIS-21-950	950	925	18
MAIS-21-1000	1000	960	20

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-21-1060	1060	1020	20
MAIS-21-1120	1120	1080	20
MAIS-21-1150	1150	1110	20
MAIS-21-1180	1180	1130	20
MAIS-21-1210	1210	1170	20
MAIS-21-1250	1250	1210	20
MAIS-21-1260	1260	1220	20
MAIS-21-1400	1400	1350	20
MAIS-21-1500	1500	1460	20
MAIS-21-1165	1650	1600	25

★Standard Material

Sealing ring: F-PTFE

Expansion ring: NBR

★Application Range

OK-type piston seals are mainly used for heavy-duty hydraulic equipment, which are especially applicable for double-acting piston. The applicable working pressure of such seals is up to 50MPa and can be higher under some circumstances.

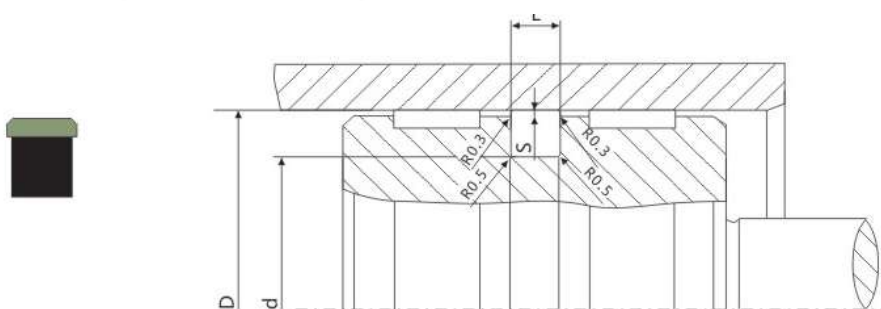
Please refer to standards of OK series of Parker Company when designing and selecting.

★Features

- ▣ Small shape
- ▣ Impact resistance load
- ▣ High abrasion resistance
- ▣ Apply to the grooves conforming to the international standards of ISO 7425-1
- ▣ The friction of both start and motion is very low even after long time pressing
- ▣ Since the sealing ring of the hydraulic cylinder is in open-type structure, it is easy to be installed on the integral piston without using any auxiliary tools
- ▣ Owing to its special material performance, the sealing ring of the hydraulic cylinder possesses strong anti-extrusion capability under high pressure and big clearance.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1m/s	0~50MPa	-30°C +110°C	Hydraulic oil, water and emulsified liquids	25-1000mm



Specification Table

Order No.	DH9	dh9	L+0.2	D ₁
MAIS-22-25	25	16.0	4.2	24.3
MAIS-22-32	32	21.0	4.2	31.3
MAIS-22-40	40	29.0	4.2	39.3
MAIS-22-40/1	40	26.3	5.8	39.3
MAIS-22-50	50	34.5	6.3	49.0
MAIS-22-50/1	50	39.0	4.2	49.3
MAIS-22-60	60	41.7	7.0	59.2
MAIS-22-60/1	60	49.0	4.2	59.3
MAIS-22-63	63	44.7	7.0	62.2
MAIS-22-63/1	63	47.5	6.3	62.0
MAIS-22-70	70	51.7	7.0	69.2
MAIS-22-70/1	70	59.0	4.2	69.3
MAIS-22-75	75	54.0	8.0	74.2

Order No.	DH9	dh9	L+0.2	D ₁
MAIS-22-80	80	59.0	8.0	79.0
MAIS-22-80/1	80	64.5	6.3	79.0
MAIS-22-85	85	64.0	8.0	84.0
MAIS-22-90	90	69.0	8.0	89.0
MAIS-22-90/1	90	74.5	6.3	89.0
MAIS-22-95	95	74.0	8.0	94.0
MAIS-22-100	100	79.0	8.0	99.0
MAIS-22-100/1	100	84.5	6.3	99.0
MAIS-22-105	105	84.0	8.0	103.8
MAIS-22-110	110	89.0	8.0	108.8
MAIS-22-110/1	110	94.5	6.3	109.0
MAIS-22-115	115	94.0	8.0	113.8
MAIS-22-120	120	99.0	8.0	118.8

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★Standard Material

Guide sleeve: PA or F-PTFE

Check ring: PA or F-PTFE

Sealing ring: F-PTFE

Elastic ring: NBR or FKM

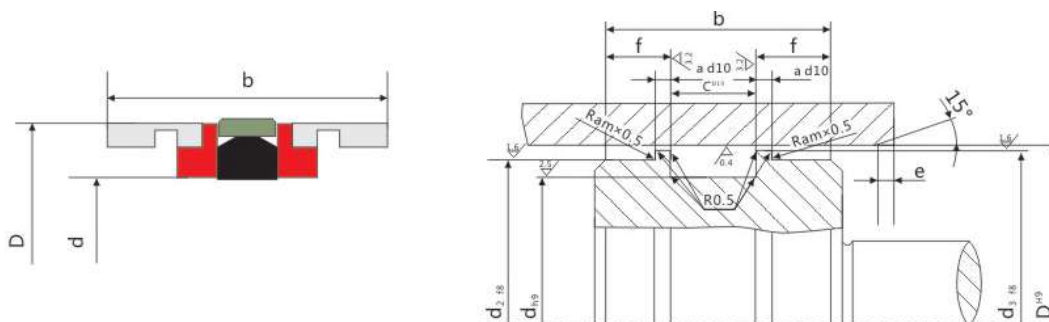
★Application Range

JDKK combined sealing ring is consisted of sealing ring, elastic ring, two check rings and two guide sleeves. The guide sleeve plays the role of positioning and guiding; the elastic ring provides pre-tightening force and compensates the wear of the sealing ring; the sealing ring and the inner hole of the cylinder can form a copulate dual face to further create sealing effect. JDKK applies to the sealing of the cylinder piston and has bidirectional sealing effect.

Please refer to the standards of GD1000K series of Hunger Company when designing and selecting.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1m/s	0~45MPa	-30°C +200°C	Hydraulic oil, water and emulsion	40-2000mm





Specification Table

Order No.	D	d	b	d2	d3	a	c	f	e
MAIS-23-40	40	26	32	32	36	3	15.5	8.25	7
MAIS-23-45	45	31	32	37	41	3	15.5	8.25	7
MAIS-23-50	50	34	39	42	46	3	20.5	9.25	7
MAIS-23-56	56	40	39	48	52	3	20.5	9.25	7
MAIS-23-63	63	47	39	55	59	3	20.5	9.25	7
MAIS-23-65	65	49	39	57	61	3	20.5	9.25	7
MAIS-23-70	70	54	39	62	66	3	20.5	9.25	7
MAIS-23-75	75	59	39	67	71	3	20.5	9.25	7
MAIS-23-80	80	62	43	72	76	3	22.5	10.25	7
MAIS-23-85	85	67	43	77	81	3	22.5	10.25	7
MAIS-23-90	90	72	43	82	86	3	22.5	10.25	7
MAIS-23-95	95	77	43	87	91	3	22.5	10.25	7
MAIS-23-100	100	82	43	92	96	3	22.5	10.25	10
MAIS-23-110	110	92	43	102	106	3	22.5	10.25	10
MAIS-23-115	115	97	43	107	111	3	22.5	10.25	10
MAIS-23-120	120	102	43	112	116	3	22.5	10.25	10
MAIS-23-125	125	103	53	115	121	4	26.5	13.25	10
MAIS-23-130	130	108	53	120	126	4	26.5	13.25	10
MAIS-23-140	140	118	53	130	136	4	26.5	13.25	10
MAIS-23-150	150	128	53	140	146	4	26.5	13.25	10
MAIS-23-160	160	138	53	150	156	4	26.5	13.25	10
MAIS-23-170	170	148	57	160	166	6	26.5	15.25	10
MAIS-23-180	180	158	57	170	176	6	26.5	15.25	10
MAIS-23-190	190	165	64	180	186	4.5	31.5	16.25	10
MAIS-23-200	200	175	64	190	196	4.5	31.5	16.25	10
MAIS-23-210	210	185	71	200	206	8	31.5	19.75	12
MAIS-23-220	220	195	71	210	216	8	31.5	19.75	12
MAIS-23-225	225	200	71	215	221	8	31.5	19.75	12
MAIS-23-230	230	205	85	220	226	15	31.5	26.75	12
MAIS-23-240	240	205	85	230	236	15	31.5	26.75	12
MAIS-23-250	250	225	85	240	246	15	31.5	26.75	12

Specification Table

Order No.	D	d	b	d2	d3	a	c	f	e
MAIS-23-275	275	250	85	265	271	15	31.5	26.75	12
MAIS-23-280	280	255	85	270	276	15	31.5	26.75	12
MAIS-23-290	290	265	85	280	286	15	31.5	26.75	12
MAIS-23-300	300	275	85	290	296	15	31.5	26.75	12
MAIS-23-310	310	280	80	298	304	8.5	36.5	21.75	15
MAIS-23-320	320	290	80	308	314	8.5	36.5	21.75	15
MAIS-23-350	350	320	80	338	344	8.5	36.5	21.75	15
MAIS-23-360	360	330	80	348	354	8.5	36.5	21.75	15
MAIS-23-380	380	350	80	368	374	8.5	36.5	21.75	15
MAIS-23-400	400	370	80	388	394	8.5	36.5	21.75	15
MAIS-23-420	420	390	80	408	414	8.5	36.5	21.75	15
MAIS-23-450	450	420	80	438	444	8.5	36.5	21.75	15
MAIS-23-480	480	450	80	468	474	8.5	36.5	21.75	15
MAIS-23-500	500	470	80	488	494	8.5	36.5	21.75	15
MAIS-23-540	540	510	80	528	534	8.5	36.5	21.75	15
MAIS-23-560	560	530	80	548	554	8.5	36.5	21.75	15
MAIS-23-580	580	550	80	568	574	8.5	36.5	21.75	15
MAIS-23-600	600	570	80	588	594	8.5	36.5	21.75	15
MAIS-23-630	630	600	80	618	624	8.5	36.5	21.75	15
MAIS-23-640	640	610	80	628	634	8.5	36.5	21.75	15
MAIS-23-650	650	620	80	638	644	8.5	36.5	21.75	15
MAIS-23-680	680	650	80	668	674	8.5	36.5	21.75	15
MAIS-23-700	700	670	80	688	694	8.5	36.5	21.75	15
MAIS-23-750	750	720	80	738	744	8.5	36.5	21.75	15
MAIS-23-800	800	770	80	788	794	8.5	36.5	21.75	15
MAIS-23-1200	1200	1170	80	1188	1194	8.5	36.5	21.75	15
MAIS-23-1400	1400	1370	80	1388	1394	8.5	36.5	21.75	15

★Standard Material

Sealing ring: F-PTFE

O-ring: NBR or FKM

Star-ring: NBR or FKM

★Application Range

Such sealing reserves both the low friction, high-pressure resistant and high-speed features of F-PTFE and possesses sealing characteristics of rubber. It is applicable to some occasions of high-speed, high-pressure and pressure maintaining. It is recommended to use the JAQ sealing for piston accumulators, positioning cylinder and support cylinder and other double-acting pistons. JAQ sealing can also be used for machine tools, pressing machines, rolling mills, shoe machines, accumulators, stabilizer, heavy-duty suspension cylinders, etc. The sealing rings shall be installed in the ISO 7425 standard grooves.

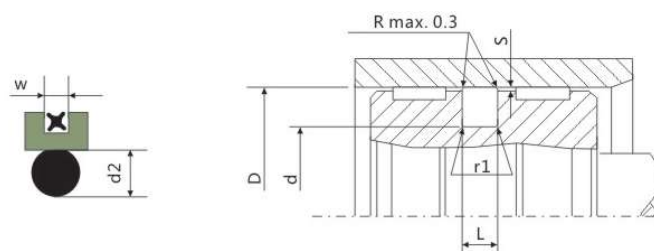
Please refer to standards of AQ series of Trelleborg Company when designing and selecting.

★Features

- ▣ Possess high sealing efficiency when used in the occasions when the two Medium need to be separated (for example, fluids/ fluids or fluids/ gas)
- ▣ Integration of low friction and high-elasticity and possession of dual safety
- ▣ Good dynamic and static sealing performance
- ▣ Allows for larger extrusion clearance, depending on the application occasions. it can reduce processing costs
- ▣ Possess the function of pressure maintaining and small leakage in the oil cylinder
- ▣ Simple groove design, small installation space, the size of the groove conforms to ISO 7425/1 standard; and can be interchanged with Glyd rings, step seals, etc.
- ▣ Owing to many kinds of materials can be adopted, it features strong adaptability to working conditions
- ▣ Good sliding performance with no crawling phenomenon

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
2m/s	0~40MPa	-30℃ +200℃	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	16-1500mm



Installation Dimension

Cylinder Diameter DH9		Bottom Groove Diameter	Groove Width	Radius	Radial Clearance S max			Section of O-ring	Section of Star Ring
Standard	Heavy duty	dh9	L+0.2	r1	10MPa	20MPa	30MPa	d2	W
15-39.9	40-79.9	D-11.0	4.2	1.0	0.25	0.15	0.10	3.53	1.80
40-79.9	80-132.9	D-15.5	6.3	1.3	0.3	0.20	0.15	5.33	1.80
80-132.9	133-252.9	D-21.0	8.1	1.8	0.3	0.20	0.15	7.00	2.65
133-252.9	-	D-24.5	8.1	1.8	0.3	0.20	0.15	7.00	2.65
253-462.9	-	D-28.0	9.5	2.5	0.45	0.30	0.25	8.40	3.55
463-700	-	D-35.0	11.5	3.0	0.55	0.40	0.35	10.00	5.30

Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-24-16	16	5.0	4.2
MAIS-24-18	18	7.0	4.2
MAIS-24-20	20	9.0	4.2
MAIS-24-22	22	11.0	4.2
MAIS-24-25	25	14.0	4.2
MAIS-24-28	28	17.0	4.2
MAIS-24-30	30	19.0	4.2
MAIS-24-32	32	21.0	4.2
MAIS-24-35	35	24.0	4.2
MAIS-24-40	40	29.0	4.2
MAIS-24-42	42	31.0	4.2
MAIS-24-45	45	34.0	4.2
MAIS-24-48	48	37.0	4.2
MAIS-24-50	50	39.0	4.2
MAIS-24-50/1	50	34.5	6.3
MAIS-24-52	52	41.0	4.2
MAIS-24-55	55	44.0	4.2
MAIS-24-60	60	49.0	4.2
MAIS-24-63	63	52.0	4.2
MAIS-24-63	63	47.5	6.3
MAIS-24-65	65	54.0	4.2
MAIS-24-70	70	59.0	4.2

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-24-70/1	70	54.5	6.3
MAIS-24-75	75	64.0	4.2
MAIS-24-80	80	64.5	6.3
MAIS-24-80/1	80	59.0	8.1
MAIS-24-85	85	69.5	6.3
MAIS-24-85/1	85	64.0	8.1
MAIS-24-90	90	74.5	6.3
MAIS-24-95	95	79.5	6.3
MAIS-24-100	100	84.5	6.3
MAIS-24-100/1	100	79.0	8.1
MAIS-24-105	140	119.0	8.1
MAIS-24-110	150	129.0	8.1
MAIS-24-115	160	139.0	8.1
MAIS-24-120	170	149.0	8.1
MAIS-24-125	180	159.0	8.1
MAIS-24-125/1	190	169.0	8.1
MAIS-24-130	200	179.0	8.1
MAIS-24-135	210	189.0	8.1
MAIS-24-140	220	199.0	8.1
MAIS-24-150	230	209.0	8.1
MAIS-24-160	240	219.0	8.1
MAIS-24-170	250	229.0	8.1

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★Standard Material

Sealing ring: F-PTFE

O-ring: NBR or FKM

Star-ring: NBR or FKM

★Overview

JAQ5 piston sealing ring is star-ring elastomer installed on the dynamic sealing surface with limited contact point, to realize the separation and sealing between two Medium. It combines the low friction performance of the sealing materials and good sealing performance of the rubber elastomer; such optimization design significantly reduces the friction and minimizes the leakage.

★Application Range

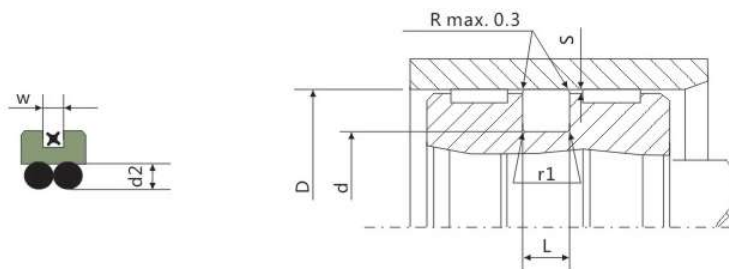
JAQ5 piston sealing rings reserve both the low friction, high-pressure resistant and high-speed features of PTFE and possess the sealing characteristics of rubber. They are applicable to some occasions of high-speed, high-pressure and pressure maintaining, and can be used as the sealings of the bidirectional motion piston accumulators and location control cylinders and support cylinders. They can be used for machine tools, pressing machines, rolling mills, shoe machines, piston accumulators, heavy-duty suspension cylinders, etc. It is especially recommended to use them in heavy-duty and large diameter application occasions. Please refer to the standards of AQ5 series of Trelleborg Company when designing and selecting.

★Features

- ▣ Possess high sealing efficiency when used in occasions that the two Medium need to be separated (for example, fluids/ fluids or fluids/ gas)
- ▣ Integration of low friction and high elasticity and possession of dual safety
- ▣ Low gas permeability
- ▣ Applicable to high pressures occasions with good sliding performance
- ▣ Good sliding performance with no crawling phenomenon
- ▣ Simple groove structure and easy for installation

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
3m/s	0~60MPa	-30℃ +200℃	All common hydraulic oil (including biological oil and gas)	40-1500mm



Installation Dimension

Cylinder Diameter DH9		Bottom Groove Diameter	Groove Width	Radius	Radial Clearance S max			Section of O-ring	Section of Star Ring
Standard	Heavy-duty	dh9	L+0.2	r1	10MPa	20MPa	30MPa	d2	W
40-79.9	25-140	D-10.0	6.3	0.6	0.3	0.2	0.15	2.65	1.78
80-132.9	50-250	D-13.0	8.3	1.0	0.4	0.3	0.15	3.55	2.62
133-462.9	100-480	D-18.0	12.3	1.3	0.4	0.3	0.20	5.33	3.53
463-700	425-700	D-31.0	16.3	1.8	0.5	0.4	0.30	7.00	5.33

Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-25-40	40	30	6.3
MAIS-25-42	42	32	6.3
MAIS-25-45	45	35	6.3
MAIS-25-48	48	38	6.3
MAIS-25-50	50	40	6.3
MAIS-25-52	52	42	6.3
MAIS-25-55	55	45	6.3
MAIS-25-60	60	50	6.3
MAIS-25-63	63	53	6.3
MAIS-25-65	65	55	6.3
MAIS-25-70	70	60	6.3
MAIS-25-75	75	65	6.3
MAIS-25-80	80	67	8.3
MAIS-25-85	85	72	8.3
MAIS-25-90	90	77	8.3
MAIS-25-95	95	82	8.3
MAIS-25-100	100	87	8.3
MAIS-25-105	105	92	8.3
MAIS-25-110	110	97	8.3
MAIS-25-115	115	102	8.3
MAIS-25-120	120	107	8.3
MAIS-25-125	125	112	8.3
MAIS-25-130	130	117	8.3
MAIS-25-135	135	117	12.3

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-25-140	140	122	12.3
MAIS-25-150	150	132	12.3
MAIS-25-160	160	142	12.3
MAIS-25-170	170	152	12.3
MAIS-25-180	180	162	12.3
MAIS-25-190	190	172	12.3
MAIS-25-200	200	182	12.3
MAIS-25-210	210	192	12.3
MAIS-25-220	220	202	12.3
MAIS-25-230	230	212	12.3
MAIS-25-240	240	222	12.3
MAIS-25-250	250	232	12.3
MAIS-25-280	280	262	12.3
MAIS-25-300	300	282	12.3
MAIS-25-320	320	302	12.3
MAIS-25-350	350	332	12.3
MAIS-25-400	400	382	12.3
MAIS-25-420	420	402	12.3
MAIS-25-450	450	432	12.3
MAIS-25-480	480	449	16.3
MAIS-25-500	500	469	16.3
MAIS-25-600	600	569	16.3
MAIS-25-650	650	619	16.3
MAIS-25-700	700	669	16.3

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

Composed of a special shaped ring with sealing and dust-proof cutting edges and two O-rings, the JPT1 dust-proof ring is used for improving the integral sealing; it has the characteristics of low friction with no stick-slip phenomena and possesses excellent capability of adjustment and positioning. JPT1 can apply to agricultural machinery, hydraulic machines, injection molding machines, hydraulic control systems, forklifts, cranes, rolling and loading, unloading machines, etc.

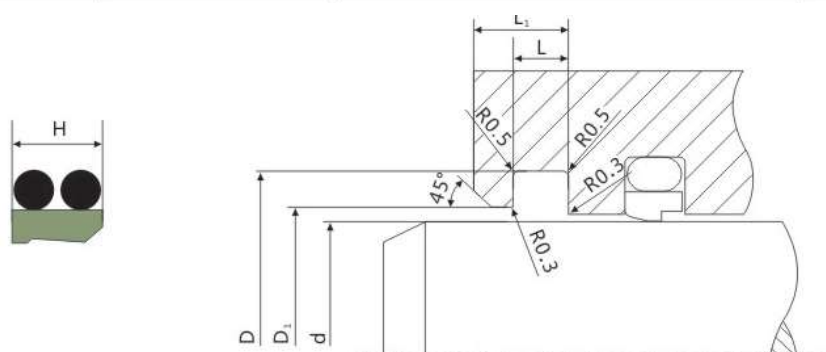
Please refer to the standards of WEMHF series of Trelleborg Company and PT1 series of Merker Company when designing and selecting.

★Features

- ▣ Double lip dust-proof ring can be used to improve the integral sealing
- ▣ Features excellent capability of adjustment and positioning during working
- ▣ Low friction and viscous friction
- ▣ Features high reliability and can accept full load working pressure in short time

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	-	-30°C +200°C	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others	20-2000mm



Installation Dimension

Shaft Diameter	Groove Diameter	Groove Width	Platform Diameter	Guiding Length	Fillet
d f8	D H9	L+0.2	D₁ ±0.1	L₁	r
20-39.9	d+7.6	4.2	d+1.0	8.2	0.4
40-69.9	d+8.8	6.3	d+1.5	10.3	1.2
70-139.9	d+12.2	8.1	d+2.0	12.1	2.0
140-399.9	d+16.0	11.5	d+2.0	15.5	2.0
400-649.9	d+24.0	15.5	d+2.5	19.5	2.0
650-999.9	d+27.3	18.0	d+2.5	23.0	2.0



Specification Table

Order No.	d f8	D H9	H	L+0.2
MAIS-26-20	20	27.6	4.0	4.2
MAIS-26-25	25	32.6	4.0	4.2
MAIS-26-28	28	35.6	4.0	4.2
MAIS-26-30	30	37.6	4.0	4.2
MAIS-26-32	32	39.6	4.0	4.2
MAIS-26-35	35	42.6	4.0	4.2
MAIS-26-36	36	43.6	4.0	4.2
MAIS-26-40	40	48.8	6.0	6.3
MAIS-26-42	42	50.8	6.0	6.3
MAIS-26-45	45	53.8	6.0	6.3
MAIS-26-50	50	58.8	6.0	6.3
MAIS-26-55	55	63.8	6.0	6.3
MAIS-26-56	56	64.8	6.0	6.3
MAIS-26-60	60	68.8	6.0	6.3
MAIS-26-63	63	71.8	6.0	6.3
MAIS-26-65	65	73.8	6.0	6.3
MAIS-26-70	70	82.2	7.7	8.1
MAIS-26-75	75	87.2	7.7	8.1
MAIS-26-80	80	92.2	7.7	8.1
MAIS-26-85	85	97.2	7.7	8.1
MAIS-26-90	90	102.2	7.7	8.1
MAIS-26-100	100	112.2	7.7	8.1
MAIS-26-110	110	122.2	7.7	8.1
MAIS-26-115	115	127.2	7.7	8.1
MAIS-26-120	120	132.2	7.7	8.1
MAIS-26-125	125	137.2	7.7	8.1
MAIS-26-130	130	142.2	7.7	8.1
MAIS-26-140	140	156	11.0	11.5
MAIS-26-150	150	166	11.0	11.5
MAIS-26-160	160	176	11.0	11.5
MAIS-26-170	170	186	11.0	11.5
MAIS-26-180	180	196	11.0	11.5
MAIS-26-200	200	216	11.0	11.5
MAIS-26-220	220	236	11.0	11.5
MAIS-26-230	230	246	11.0	11.5
MAIS-26-240	240	256	11.0	11.5

Order No.	d f8	D H9	H	L+0.2
MAIS-26-245	245	261	11.0	11.5
MAIS-26-250	250	266	11.0	11.5
MAIS-26-260	260	276	11.0	11.5
MAIS-26-280	280	296	11.0	11.5
MAIS-26-290	290	306	11.0	11.5
MAIS-26-300	300	316	11.0	11.5
MAIS-26-320	320	336	11.0	11.5
MAIS-26-340	340	356	11.0	11.5
MAIS-26-355	355	371	11.0	11.5
MAIS-26-360	360	376	11.0	11.5
MAIS-26-370	370	386	11.0	11.5
MAIS-26-375	375	391	11.0	11.5
MAIS-26-380	380	396	11.0	11.5
MAIS-26-390	390	406	11.0	11.5
MAIS-26-400	400	424	14.8	15.5
MAIS-26-410	410	434	14.8	15.5
MAIS-26-420	420	444	14.8	15.5
MAIS-26-430	430	454	14.8	15.5
MAIS-26-440	440	464	14.8	15.5
MAIS-26-450	450	474	14.8	15.5
MAIS-26-460	460	484	14.8	15.5
MAIS-26-470	470	494	14.8	15.5
MAIS-26-480	480	504	14.8	15.5
MAIS-26-500	500	524	14.8	15.5
MAIS-26-510	510	534	14.8	15.5
MAIS-26-520	520	544	14.8	15.5
MAIS-26-530	530	554	14.8	15.5
MAIS-26-540	540	564	14.8	15.5
MAIS-26-560	560	584	14.8	15.5
MAIS-26-590	590	614	14.8	15.5
MAIS-26-600	600	624	14.8	15.5
MAIS-26-620	620	644	14.8	15.5
MAIS-26-690	690	717.3	17.2	18
MAIS-26-760	760	787.3	17.2	18
MAIS-26-800	800	827.3	17.2	18
MAIS-26-900	900	927.3	17.2	18

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR or FKM

★Application Range

JPT2 dust-proof ring consists of one special-shaped ring with sealing edge and dust-proof edge and two O-rings as the preloaded elements; it has excellent dust scraping effect, low friction, without stick-slip phenomenon, and can be applied for hydraulic machine, injection molding machine, roll machine, metallurgical machinery and other equipment.

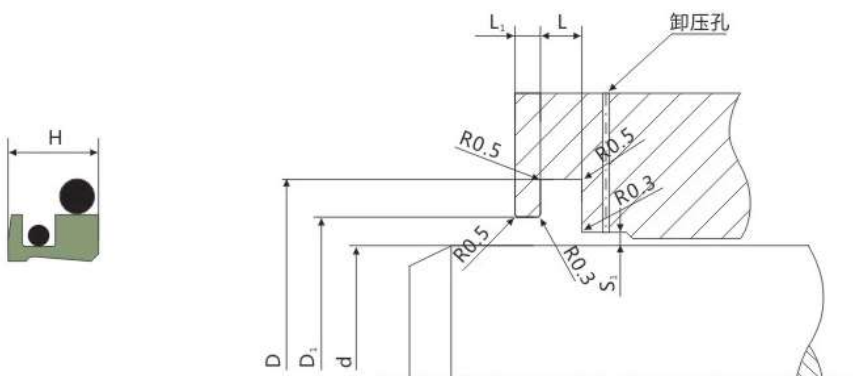
Please refer to the standards of WEMHG series of Trelleborg Company and PT2 series of Merker Company when designing.

★Features

- ▣ Low friction and viscous friction
- ▣ Especially applicable for piston lever with large diameter
- ▣ Wonderful adjusting and positioning capabilities during working process.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
5m/s	-	-30°C +200°C	Hydraulic oil, water or others	100-2000mm



Installation Dimension

Shaft Diameter d f8		Groove Diameter	Groove Width	Platform Diameter	Fillet	Guiding Length
Standard	Applicable	D H9	L+0.2	D ₁ ±0.1	r	L ₁
100-229.9	100-450.0	d+22.2	6.3	d+10.7	1.2	4.2
230-299.9	220-450.0	d+24.2	6.3	d+10.7	1.2	4.2
300-629.9	250-650.0	d+33.0	8.1	d+15.1	1.2	6.3
630-999.9	500.0	d+36.5	9.5	d+15.1	2.0	6.3



Specification Table

Order No.	d f8	D H9	H	L+0.2	L ₁
MAIS-27-100	100	122.2	13.5	6.3	4.2
MAIS-27-110	110	132.2	13.5	6.3	4.2
MAIS-27-120	120	142.2	13.5	6.3	4.2
MAIS-27-130	130	152.2	13.5	6.3	4.2
MAIS-27-139.7	139.7	161.9	13.5	6.3	4.2
MAIS-27-140	140	162.2	13.5	6.3	4.2

Order No.	d f8	D H9	H	L+0.2	L ₁
MAIS-27-150	150	172.2	13.5	6.3	4.2
MAIS-27-160	160	182.2	13.5	6.3	4.2
MAIS-27-170	170	192.2	13.5	6.3	4.2
MAIS-27-180	180	202.2	13.5	6.3	4.2
MAIS-27-200	200	222.2	13.5	6.3	4.2
MAIS-27-210	210	232.2	13.5	6.3	4.2

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★Standard Material

Sealing ring: F-PTFE

Spring: stainless steel

★Application Range

Sealing ring: F-PTFE Spring seal for shaft is a kind of sealing used for reciprocating motion of internal sealing. This kind of seal can be applicable for poor working conditions and also be adapted to the requirements of certain special mediums. JRVA sealing is the recommended sealing to use for the requirement of no crawling, chemical resistance and resistance of most mediums, such as valve, pump, separator, brake and batching apparatus.

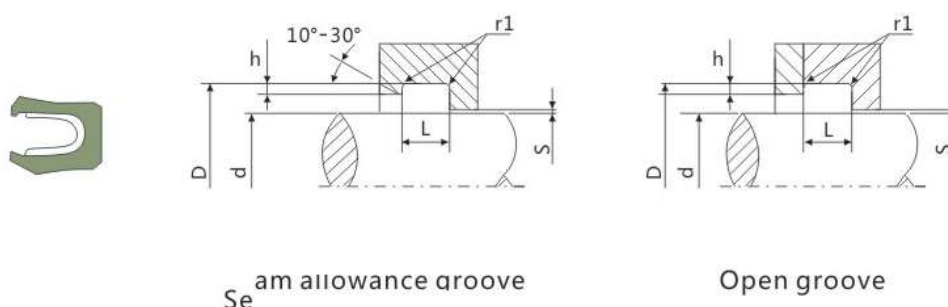
Please refer to the standards of RVA series of Trelleborg Company and JS series of Parker Company when designing and selecting.

★Features

- ▣ Can be used for reciprocating and rotating movement
- ▣ Small friction coefficient, wear-resistance and stable dimensions
- ▣ Superior corrosion resistance and good dimension stability
- ▣ Not contaminate food, medicine and liquid medicament
- ▣ Unlimited storage period
- ▣ Can be adapted to the vast majority of fluid and chemicals
- ▣ No crawling for precise control
- ▣ Be able to bear sharp temperature changes
- ▣ Can be disinfected

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
15m/s	0~45MPa	-55°C +260°C	All liquids, chemicals and gas	5-1500mm



Installation Dimension

Piston Lever Diameter	Groove Diameter	Groove Width	Radius	Height of Seam Allowance	Maximum Radial Clearance S			
d h9	D H9	L+0.2	r1	h	2 MPa	10 MPa	20 MPa	40 MPa
3.0-9.9	d+2.9	2.4	0.4	0.4	0.20	0.10	0.08	0.05
10.0-19.9	d+4.5	3.6	0.4	0.6	0.25	0.15	0.10	0.07
20.0-39.9	d+6.2	4.8	0.6	0.7	0.35	0.20	0.15	0.08
40.0-119.9	d+9.4	7.1	0.8	0.8	0.50	0.25	0.20	0.10
120.0-630.0	d+12.2	9.5	0.8	0.8	0.60	0.30	0.25	0.12

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★Standard Material

Sealing ring: F-PTFE

Spring: stainless steel

★Application Range

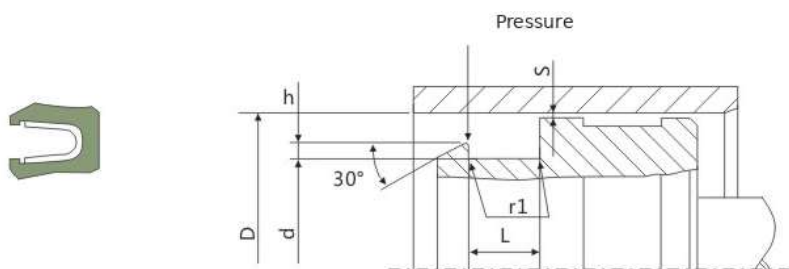
Spring seal for holes is a kind of sealing used for reciprocating motion of internal sealing. This kind of sealing can be applicable for poor working conditions and can also be adapted to the requirements of certain special mediums. JPVA sealing is the recommended sealing to use for the requirement of no crawling, chemical resistance and resistance of most mediums, such as valve, pump, separator, brake and batching apparatus. Please refer to the standards of PVA series of Trelleborg Company and JK series of Parker Company when designing and selecting.

★Features

- ▣ Can be used for reciprocating and rotating movement
- ▣ Small friction coefficient, wear-resistance and stable dimensions
- ▣ Superior corrosion resistance and good dimension stability
- ▣ Not contaminate food, medicine and liquid medicament
- ▣ Unlimited storage period
- ▣ Can be adapted to the vast majority of fluid and chemicals
- ▣ No crawling for precise control
- ▣ Able to bear sharp temperature changes
- ▣ Can be disinfected

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
15m/s	0~45MPa	-55℃ +260℃	All liquids, chemicals and gas	5-1500mm



Installation Dimension

Cylinder Diameter	Groove Diameter	Groove Width	Radius	Height of Seam Allowance	Maximum Radial Clearance S			
					2 MPa	10 MPa	20 MPa	40 MPa
D H9	d h9	L+0.2	r1	h				
6.0-19.9	D-2.9	2.4	0.4	0.4	0.20	0.10	0.08	0.05
14.0-24.9	D-4.5	3.6	0.4	0.6	0.25	0.15	0.10	0.07
25.0-45.9	D-6.2	4.8	0.6	0.7	0.35	0.20	0.15	0.08
46.0-124.9	D-9.4	7.1	0.8	0.8	0.50	0.25	0.20	0.10
125.0-999.9	D-12.2	9.5	0.8	0.9	0.60	0.30	0.25	0.12



Specification Table

Order No.	Cylinder Diameter	Groove Diameter	Groove Width
	dh9	DH9	L+0.2
MAIS-29-6	6	3.1	2.4
MAIS-29-8	8	5.1	2.4
MAIS-29-10	10	7.1	2.4
MAIS-29-12	12	9.1	2.4
MAIS-29-14	14	9.5	3.6
MAIS-29-15	15	10.5	3.6
MAIS-29-16	16	11.5	3.6
MAIS-29-18	18	13.5	3.6
MAIS-29-20	20	15.5	3.6
MAIS-29-22	22	17.5	3.6
MAIS-29-25	25	18.8	4.8
MAIS-29-28	28	21.8	4.8
MAIS-29-30	30	23.8	4.8
MAIS-29-32	32	25.8	4.8
MAIS-29-35	35	28.8	4.8
MAIS-29-40	40	33.8	4.8
MAIS-29-42	42	35.8	4.8
MAIS-29-45	45	38.8	4.8
MAIS-29-48	48	38.6	7.1
MAIS-29-50	50	40.6	7.1
MAIS-29-52	52	42.6	7.1
MAIS-29-55	55	45.6	7.1
MAIS-29-56	56	46.6	7.1
MAIS-29-60	60	50.6	7.1
MAIS-29-63	63	53.6	7.1
MAIS-29-65	65	55.6	7.1
MAIS-29-70	70	60.6	7.1
MAIS-29-75	75	65.6	7.1
MAIS-29-80	80	70.6	7.1
MAIS-29-85	85	75.6	7.1

Order No.	Cylinder Diameter	Groove Diameter	Groove Width
	dh9	DH9	L+0.2
MAIS-29-90	90	80.6	7.1
MAIS-29-95	95	85.6	7.1
MAIS-29-100	100	90.6	7.1
MAIS-29-110	110	100.6	7.1
MAIS-29-115	115	105.6	7.1
MAIS-29-120	120	110.6	7.1
MAIS-29-125	125	112.8	9.5
MAIS-29-130	130	117.8	9.5
MAIS-29-135	135	122.8	9.5
MAIS-29-140	140	127.8	9.5
MAIS-29-150	150	137.8	9.5
MAIS-29-160	160	147.8	9.5
MAIS-29-170	170	157.8	9.5
MAIS-29-180	180	167.8	9.5
MAIS-29-190	190	177.8	9.5
MAIS-29-200	200	187.8	9.5
MAIS-29-210	210	197.8	9.5
MAIS-29-220	220	207.8	9.5
MAIS-29-230	230	217.8	9.5
MAIS-29-240	240	227.8	9.5
MAIS-29-250	250	237.8	9.5
MAIS-29-280	280	267.8	9.5
MAIS-29-300	300	287.8	9.5
MAIS-29-320	320	307.8	9.5
MAIS-29-350	350	337.8	9.5
MAIS-29-400	400	387.8	9.5
MAIS-29-420	420	407.8	9.5
MAIS-29-450	450	437.8	9.5
MAIS-29-480	480	467.8	9.5
MAIS-29-500	500	487.8	9.5

★Standard Material

Sealing ring: F-PTFE

Spring: stainless steel

★Application Range

Rotary spring sealing ring is the single-effect sealing ring used at rotating shaft, and widely applied in various hydraulic systems. Besides, it is also widely used in chemical, medical and food industries, for its good compatibility of sealing and spring to relative materials.

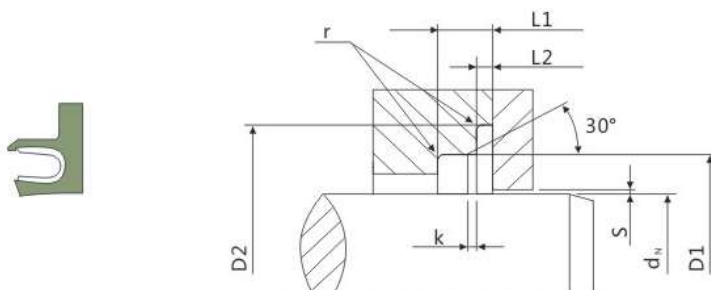
Please refer to the standards of TVM series of Trelleborg Company when designing and selecting.

★Features

- ▣ Used for rotating and reciprocating places of static seal
- ▣ No crawling operation, and can be used for precise control
- ▣ Able to bear sharp temperature changes
- ▣ Can be disinfected
- ▣ Good scraping effect
- ▣ Good abrasion resistance performance and dimension stability
- ▣ Not contaminate mediums while contacting with food, pharmacy and medical fluids
- ▣ Unlimited storage period

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
2m/s	0~15MPa	-55℃ +260℃	All liquids, chemicals and gas	5-1500mm



Installation Dimension

Piston Lever Diameter	Groove Diameter		Groove Width	Radius	Leading-in Chamfer	Maximum Radial Clearance S		
d_N f8	D_1 H9	D_2 H9	$L_1+0.2$	r	k	2 MPa	10 MPa	20 MPa
5.0-19.9	$d_N+5.0$	$d_N+9.0$	3.6	0.8	0.3	0.25	0.15	0.10
20.0-39.9	$d_N+7.0$	$d_N+12.5$	4.8	1.1	0.4	0.35	0.20	0.15
40.0-399.9	$d_N+10.5$	$d_N+17.5$	7.1	1.4	0.5	0.50	0.25	0.20
400.0-999.9	$d_N+14.0$	$d_N+22.0$	9.5	1.6	0.6	0.60	0.30	0.25

Order No.	Piston Lever Diameter	Groove Diameter		Groove Width
	d _N f8	D ₁ H9	D ₂ H9	L ₁ +0.2
MAIS-30-5	5	10.0	14	3.6
MAIS-30-6	6	11.0	15	3.6
MAIS-30-8	8	13.0	17	3.6
MAIS-30-10	10	15.0	19	3.6
MAIS-30-12	12	17.0	21	3.6
MAIS-30-14	14	19.0	23	3.6
MAIS-30-15	15	20.0	24	3.6
MAIS-30-16	16	21.0	25	3.6
MAIS-30-18	18	23.0	27	3.6
MAIS-30-20	20	27.0	32.5	4.8
MAIS-30-22	22	29.0	34.5	4.8
MAIS-30-25	25	32.0	37.5	4.8
MAIS-30-28	28	35.0	40.5	4.8
MAIS-30-30	30	37.0	42.5	4.8
MAIS-30-32	32	39.0	44.5	4.8
MAIS-30-35	35	42.0	47.5	4.8
MAIS-30-36	36	43.0	48.5	4.8
MAIS-30-40	40	50.5	57.5	7.1
MAIS-30-42	42	52.5	59.5	7.1
MAIS-30-45	45	55.5	62.5	7.1
MAIS-30-48	48	58.5	65.5	7.1
MAIS-30-50	50	60.5	67.5	7.1
MAIS-30-52	52	62.5	69.5	7.1
MAIS-30-55	55	65.5	72.5	7.1
MAIS-30-56	56	66.5	73.5	7.1
MAIS-30-60	60	70.5	77.5	7.1
MAIS-30-63	63	73.5	80.5	7.1
MAIS-30-65	65	75.5	82.5	7.1
MAIS-30-70	70	80.5	87.5	7.1
MAIS-30-75	75	85.5	92.5	7.1
MAIS-30-80	80	90.5	97.5	7.1
MAIS-30-85	85	95.5	102.5	7.1
MAIS-30-90	90	100.5	107.5	7.1

Order No.	Piston Lever Diameter	Groove Diameter		Groove Width
	d _N f8	D ₁ H9	D ₂ H9	L ₁ +0.2
MAIS-30-95	95	105.5	112.5	7.1
MAIS-30-100	100	110.5	117.5	7.1
MAIS-30-105	105	115.5	122.5	7.1
MAIS-30-110	110	120.5	127.5	7.1
MAIS-30-115	115	125.5	132.5	7.1
MAIS-30-120	120	130.5	137.5	7.1
MAIS-30-125	125	135.5	142.5	7.1
MAIS-30-130	130	140.5	147.5	7.1
MAIS-30-135	135	145.5	152.5	7.1
MAIS-30-140	140	150.5	157.5	7.1
MAIS-30-150	150	160.5	167.5	7.1
MAIS-30-160	160	170.5	177.5	7.1
MAIS-30-170	170	180.5	187.5	7.1
MAIS-30-180	180	190.5	197.5	7.1
MAIS-30-190	190	200.5	207.5	7.1
MAIS-30-200	200	210.5	217.5	7.1
MAIS-30-210	210	220.5	227.5	7.1
MAIS-30-220	220	230.5	237.5	7.1
MAIS-30-230	230	240.5	247.5	7.1
MAIS-30-240	240	250.5	257.5	7.1
MAIS-30-250	250	260.5	267.5	7.1
MAIS-30-280	280	290.5	297.5	7.1
MAIS-30-300	300	310.5	317.5	7.1
MAIS-30-320	320	330.5	337.5	7.1
MAIS-30-350	350	360.5	367.5	7.1
MAIS-30-360	360	370.5	377.5	7.1
MAIS-30-400	400	410.5	417.5	7.1
MAIS-30-420	420	434.0	442.0	9.5
MAIS-30-450	450	464.0	472.0	9.5
MAIS-30-480	480	494.0	502.0	9.5
MAIS-30-500	500	514.0	522.0	9.5
MAIS-30-600	600	614.0	622.0	9.5
MAIS-30-700	700	714.0	722.0	9.5

★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR

Check ring: polyamide (PA) or polyformaldehyde (POM)

★Application Range

Used for hydraulic reciprocating motion systems; heavy-duty bidirectional piston seals under high-pressure condition. It is especially applicable for long stroke and extensive fluids and high temperature occasions, and also applicable to larger piston clearance. It has good performance of leakage control, anti-extrusion and resistance to wear and can be mainly used for oil cylinder pistons sealing of heavy-duty or construction machinery, such as excavators and heavy-duty hydraulic cylinders.

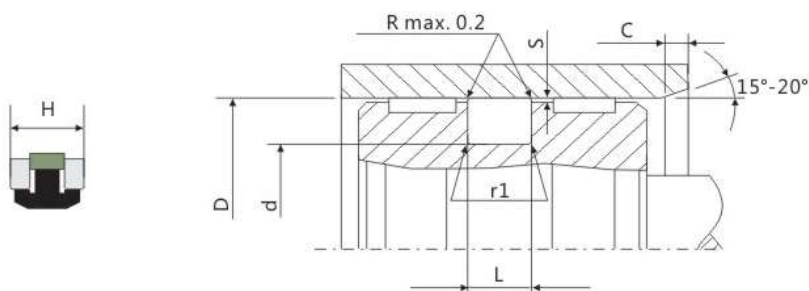
Please refer to standards of PHD series of Trelleborg Company, SPGW series of NOK Company, Y3 series of Parkrt Company and KHD series of AS Company when designing and selecting.

★Features

- ▣ Good dynamic and static sealing performance
- ▣ Simple groove structure
- ▣ Allow larger extrusion gap
- ▣ Long service life
- ▣ Little static and dynamic friction coefficient and low wear
- ▣ No crawling while starting up and can work stably
- ▣ Owing to larger extrusion clearance, it can be safely used in the Medium with sewage

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1.5m/s	0~50MPa	-30°C +100°C	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, environmentally-safe hydraulic oil (biological oil), water and others, depending on the materials of sealing rings	50-500mm





Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-31-50	50	36	9.0
MAIS-31-55	55	41	9.0
MAIS-31-60	60	46	9.0
MAIS-31-63	63	48	11.0
MAIS-31-65	65	50	11.0
MAIS-31-70	70	55	11.0

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-31-75	75	60	11.0
MAIS-31-80	80	65	11.0
MAIS-31-85	85	70	11.0
MAIS-31-90	90	75	11.0
MAIS-31-95	95	80	11.0
MAIS-31-100	100	85	12.5

Specification Table

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-31-105	105	90	12.5
MAIS-31-110	110	95	12.5
MAIS-31-115	115	100	12.5
MAIS-31-120	120	105	12.5
MAIS-31-125	125	102	16.0
MAIS-31-130	130	107	16.0
MAIS-31-135	135	112	16.0
MAIS-31-140	140	117	16.0
MAIS-31-145	145	122	16.0
MAIS-31-150	150	127	16.0
MAIS-31-155	155	132	16.0
MAIS-31-160	160	137	16.0
MAIS-31-165	165	142	16.0
MAIS-31-170	170	147	16.0
MAIS-31-180	180	157	16.0

Order No.	Cylinder Diameter	Bottom Diameter	Width
	D	d	L+0.2
MAIS-31-185	185	162	16.0
MAIS-31-190	190	167	16.0
MAIS-31-200	200	177	16.0
MAIS-31-210	210	187	16.0
MAIS-31-220	220	197	16.0
MAIS-31-225	225	202	16.0
MAIS-31-230	230	207	16.0
MAIS-31-240	240	217	16.0
MAIS-31-250	250	222	17.5
MAIS-31-260	260	232	17.5
MAIS-31-270	270	242	17.5
MAIS-31-280	280	252	17.5
MAIS-31-300	300	272	17.5
MAIS-31-320	320	292	17.5
MAIS-31-350	350	322	17.5

★Standard Material

Guide sleeve: PA or F-PTFE

Sealing ring: F-PTFE

Elastic ring: NBR or FKM

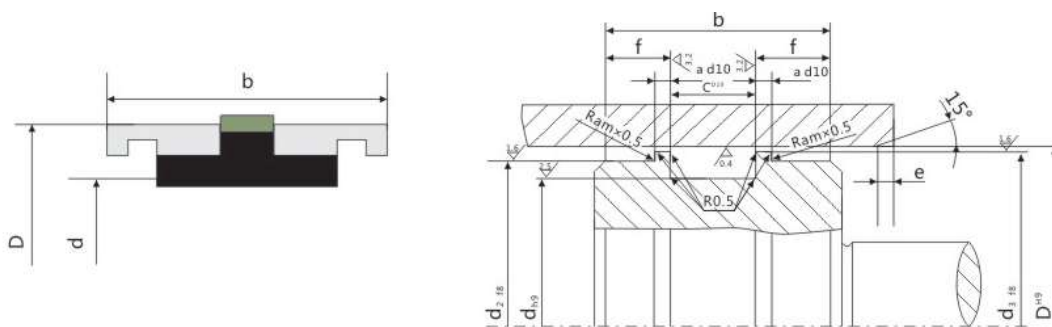
★Application Range

JKDF combined sealing ring is consisted of sealing ring, elastic ring and two guide sleeves. The guide sleeve plays the role of positioning and guiding; the elastic ring provides pre-tightening force and compensates the wear of the sealing ring; the sealing ring and the inner hole of the cylinder can form a copulate dual face to further create sealing effect. JKDF applies to the sealing of the cylinder piston and has bidirectional sealing effect.

Please refer to the standards of GKD series of Hunger Company when designing and selecting.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1m/s	0~45MPa	-30°C +200°C	Hydraulic oil, water and emulsion	40-1000mm



Specification Table

Order No.	D	d	b	d2	d3	a	c	f	e
MAIS-32-40	40	26	30	32	36	3.5	15.5	7.25	7
MAIS-32-45	45	31	30	37	41	3	15.5	7.25	7
MAIS-32-50	50	34	32	42	46	3	20.5	5.8	7
MAIS-32-55	55	39	32	47	51	3	20.5	5.8	7
MAIS-32-56	56	40	32	48	52	3	20.5	5.8	7
MAIS-32-60	60	44	32	52	56	3	20.5	5.8	7
MAIS-32-63	63	47	32	55	59	3	20.5	5.8	7
MAIS-32-65	65	49	32	57	61	3	20.5	5.8	7
MAIS-32-70	70	54	32	62	66	3	20.5	5.8	7
MAIS-32-75	75	59	32	67	71	3	20.5	5.8	7
MAIS-32-80	80	62	36	72	76	3	22.5	6.8	7
MAIS-32-85	85	67	36	77	81	3	22.5	6.8	7
MAIS-32-90	90	72	36	82	86	3	22.5	6.8	7
MAIS-32-95	95	77	36	87	91	3	22.5	6.8	7
MAIS-32-100	100	82	36	92	96	3	22.5	6.8	7
MAIS-32-105	105	87	36	97	101	3	22.5	6.8	10
MAIS-32-110	110	92	36	102	106	3	22.5	6.8	10
MAIS-32-115	115	97	36	107	111	3	22.5	6.8	10
MAIS-32-120	120	102	36	112	116	3	22.5	6.8	10
MAIS-32-125	125	103	43	115	121	4	26.5	8.3	10
MAIS-32-130	130	108	43	120	126	4	26.5	8.3	10
MAIS-32-135	135	113	43	125	131	4	26.5	8.3	10
MAIS-32-140	140	118	43	130	136	4	26.5	8.3	10
MAIS-32-145	145	123	43	135	141	4	26.5	8.3	10
MAIS-32-150	150	128	43	140	146	4	26.5	8.3	10
MAIS-32-155	155	133	43	145	151	4	26.5	8.3	10
MAIS-32-160	160	138	43	150	156	4	26.5	8.3	10
MAIS-32-170	170	148	48	160	166	6	26.5	10.8	10
MAIS-32-180	180	158	48	170	176	6	26.5	10.8	10

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★Standard material

Sealing ring: F-PTFE

Elastic ring: NBR

L ring: POM or PA

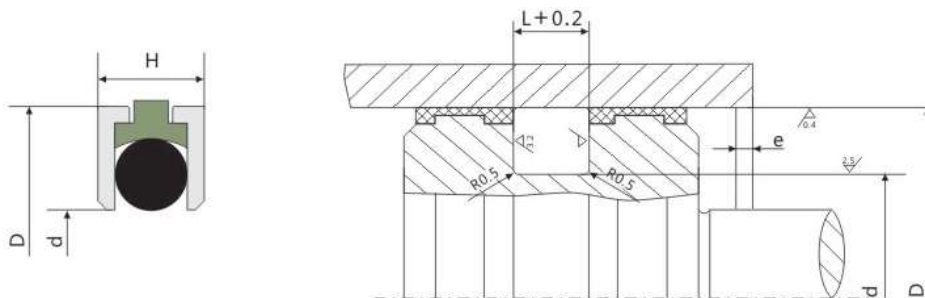
★Application Range

JGDA is a combined sealing ring which is consisted of one sealing ring, two L-type POM or PA support rings and one O-ring with force application. The support ring plays the role of supporting and guiding to ensure tight sealing environment. The sliding ring relies on the force application of the O-ring to squeeze the piston and offers sealing function. JGDA can be used in mineral oil, water-based lubricant, modified water-based lubricant and other liquids.

Please refer to the standards of GGDA series of Hunger Company when designing and selecting.

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1m/s	0~45MPa	-30°C +100°C	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, water and others	40-1000mm



Installation Dimension

DH8	dh9	L+0.2	H
<96	D-16.8	8	7.5
96-190	D-20	10	9.5
191-380	D-28	13	12.5
381-1000	D-36	20	19.5

Specification Table

Order No.	DH8	dh9	H	L	e
MAIS-33-40	40	23.2	7.5	8	7
MAIS-33-45	45	28.2	7.5	8	7
MAIS-33-50	50	33.2	7.5	8	7
MAIS-33-56	56	39.2	7.5	8	7
MAIS-33-63	63	46.2	7.5	8	7
MAIS-33-65	65	48.2	7.5	8	7
MAIS-33-70	70	53.2	7.5	8	7
MAIS-33-75	75	58.2	7.5	8	7
MAIS-33-80	80	63.2	7.5	8	7
MAIS-33-85	85	68.2	7.5	8	7
MAIS-33-90	90	73.2	7.5	8	7
MAIS-33-95	95	78.2	7.5	8	7
MAIS-33-100	100	80	9.5	10	10
MAIS-33-105	105	85	9.5	10	10
MAIS-33-110	110	90	9.5	10	10
MAIS-33-115	115	95	9.5	10	10
MAIS-33-120	120	100	9.5	10	10
MAIS-33-125	125	105	9.5	10	10
MAIS-33-130	130	110	9.5	10	10
MAIS-33-135	135	115	9.5	10	10
MAIS-33-140	140	120	9.5	10	10

Order No.	DH8	dh9	H	L	e
MAIS-33-145	145	125	9.5	10	10
MAIS-33-150	150	130	9.5	10	10
MAIS-33-150	155	135	9.5	10	10
MAIS-33-160	160	140	9.5	10	10
MAIS-33-170	170	150	9.5	10	10
MAIS-33-180	180	160	9.5	10	10
MAIS-33-190	190	170	9.5	10	10
MAIS-33-200	200	172	12.5	13	12
MAIS-33-210	210	182	12.5	13	12
MAIS-33-220	220	192	12.5	13	12
MAIS-33-225	225	197	12.5	13	12
MAIS-33-235	235	207	12.5	13	12
MAIS-33-240	240	212	12.5	13	12
MAIS-33-250	250	222	12.5	13	12
MAIS-33-265	265	237	12.5	13	12
MAIS-33-275	275	247	12.5	13	12
MAIS-33-280	280	252	12.5	13	12
MAIS-33-290	290	262	12.5	13	12
MAIS-33-300	300	272	12.5	13	12
MAIS-33-310	310	282	12.5	13	15
MAIS-33-320	320	292	12.5	13	15

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★Standard Material

Sealing ring: F-PTFE

Elastomer: NBR

L ring: POM or PA

★Application Range

JGDI is a combined sealing ring which consists of one sealing ring, two L-type POM or PA support rings and one O-ring with force application. The support ring plays in the role of supporting and guiding to ensure a tight sealing environment. The sliding ring relies on the force application of the O-ring to squeeze the piston lever and offers sealing function. JGDI can be used in mineral oil, water-based lubricant, modified water based lubricant and other liquids.

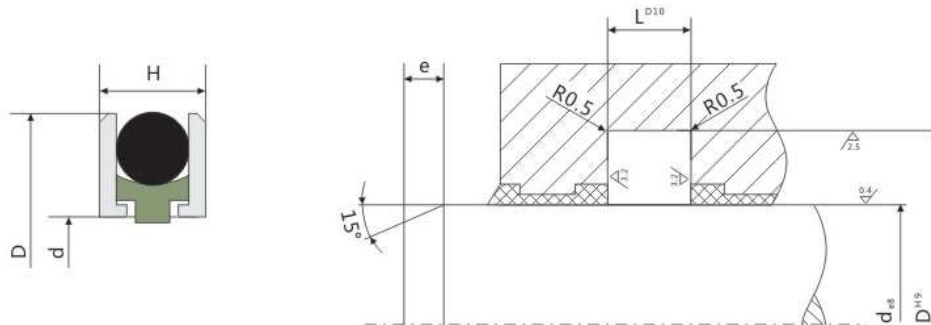
Please refer to the standards of GGDI series of Hunger Company when designing and selecting.

★Features

- ▣ Easy for installation
- ▣ Anti-extrusion
- ▣ High abrasion resistance
- ▣ Low friction with no stick-slip phenomena

★Working conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
1m/s	0~45MPa	-30℃ +100℃	Petroleum base hydraulic oil, fire-resistant hydraulic fluid, water and others	20-1000mm



Installation Dimension

d e8	D H9	L D10	H
22-39	d+7.2	4.0	3.5
40-79	d+10.0	5.0	4.5
80-100	d+13.8	7.5	7.0
>100-250	d+20.0	10.0	9.5
>250-600	d+30.0	15.0	14.5
>600	d+40.0	20.0	19.5



Specification Table

Order No.	d e8	D H9	H	L D10	e
MAIS-34-22	22	29.2	3.5	4	6
MAIS-34-25	25	32.2	3.5	4	6
MAIS-34-28	28	35.2	3.5	4	6
MAIS-34-30	30	37.2	3.5	4	6
MAIS-34-32	32	39.2	3.5	4	6
MAIS-34-35	35	42.2	3.5	4	6
MAIS-34-36	36	43.2	3.5	4	6
MAIS-34-40	40	50	4.5	5	6
MAIS-34-42	42	52	4.5	5	6

Order No.	d e8	D H9	H	L D10	e
MAIS-34-45	45	55	4.5	5	6
MAIS-34-50	50	60	4.5	5	6
MAIS-34-55	55	65	4.5	5	6
MAIS-34-56	56	66	4.5	5	6
MAIS-34-60	60	70	4.5	5	7
MAIS-34-63	63	73	4.5	5	7
MAIS-34-65	65	75	4.5	5	7
MAIS-34-70	70	80	4.5	5	7
MAIS-34-72	72	82	4.5	5	7

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★Standard Material

Sealing ring: F-PTFE

Check ring: POM or PA

O-ring: NBR

★Application Range

JRDA combined rotary sealing consists of one sealing ring, one O-ring of elastic force application and two check rings; the profile of sealing face is specially designed to adapt high pressure and low speed; the back of sealing ring is designed to be concave arc shape to increase the contact surface and avoid the sealing ring rotating along with rod or shaft; it can be applied for engineering machinery, construction machinery and automobile equipment.

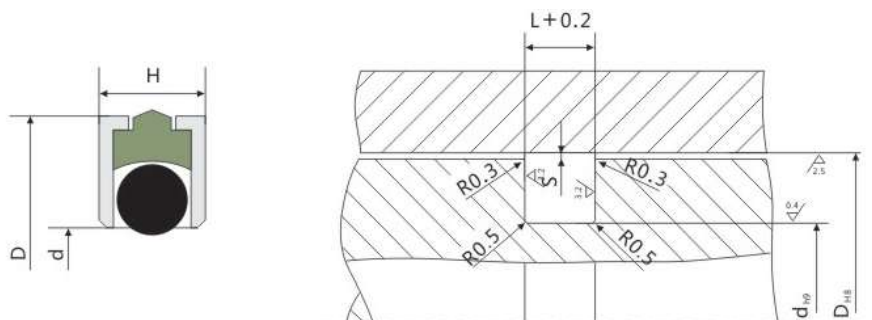
Please refer to the standards of RDA series of Hunger Company when designing.

★Features

- ▣ No crawling while starting up and no stiction phenomenon
- ▣ Small friction force
- ▣ Simple groove with small dimension
- ▣ Well abrasion resistance and dimension stability

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
0.5m/s	0~36MPa	-36℃ +100℃	Petroleum base hydraulic oil, fire-resistant fluid, biological oil, water, gas, etc., depending on materials of O-ring	50-1000mm



Installation Dimension

Cylinder Diameter	Bottom Diameter	Sealing Width	Groove Width	Guiding Clearance S	
D H8	d h9	H	L+0.2	0-10MPa	15-36MPa
50-124	D-16	7.5	8	0.45-0.35	0.35-0.30
125-199	D-20	9.5	10	0.55-0.45	0.45-0.35
200-600	D-26	12.5	13	0.60-0.55	0.55-0.45

Specification Table

Order No.	D H8	d h9	H	L	e
MAIS-35-50	50	34	7.5	8	7
MAIS-35-56	56	40	7.5	8	7
MAIS-35-63	63	47	7.5	8	7
MAIS-35-70	70	54	7.5	8	7
MAIS-35-80	80	64	7.5	8	7
MAIS-35-90	90	74	7.5	8	7
MAIS-35-95	95	79	7.5	8	7
MAIS-35-100	100	84	7.5	8	10
MAIS-35-110	110	94	7.5	8	10
MAIS-35-115	115	99	7.5	8	10
MAIS-35-120	120	104	7.5	8	10
MAIS-35-125	125	105	9.5	10	10
MAIS-35-130	130	110	9.5	10	10
MAIS-35-140	140	120	9.5	10	10
MAIS-35-150	150	130	9.5	10	10
MAIS-35-160	160	140	9.5	10	10
MAIS-35-180	180	160	9.5	10	10
MAIS-35-190	190	170	9.5	10	10

Order No.	D H8	d h9	H	L	e
MAIS-35-200	200	174	12.5	10	12
MAIS-35-220	220	194	12.5	10	12
MAIS-35-225	225	199	12.5	10	12
MAIS-35-250	250	224	12.5	10	12
MAIS-35-280	280	254	12.5	10	12
MAIS-35-290	290	264	12.5	10	12
MAIS-35-300	300	274	12.5	10	12
MAIS-35-320	320	294	12.5	10	15
MAIS-35-350	350	324	12.5	13	15
MAIS-35-380	380	354	12.5	13	15
MAIS-35-400	400	374	12.5	13	15
MAIS-35-420	420	394	12.5	13	15
MAIS-35-450	450	424	12.5	13	15
MAIS-35-480	480	454	12.5	13	15
MAIS-35-500	500	474	12.5	13	15
MAIS-35-560	560	534	12.5	13	15
MAIS-35-580	580	554	12.5	13	15
MAIS-35-600	600	574	12.5	13	15

★Standard material

Sealing ring: F-PTFE

Check ring: POM or PA

O-ring: NBR

★Application Range

JRDA combined rotary sealing consists of one sealing ring, one O-ring of elastic force application and two check rings; the profile of sealing face is specially designed to adapt high pressure and low speed; the back of sealing ring is designed to be concave arc shape to increase the contact surface and avoid the sealing ring rotating along with rod or shaft; it can be applied for engineering machinery, construction machinery and automobile equipment.

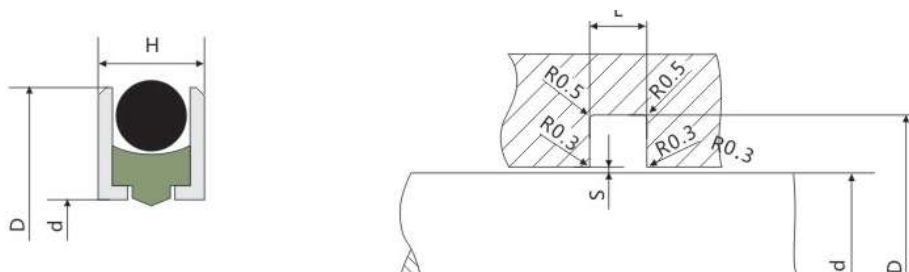
Please refer to the standards of RDI series of Hunger Company when designing.

★Features

- ▣ No crawling while starting up and no stiction phenomenon
- ▣ Small friction force
- ▣ Simple groove with small dimension
- ▣ Well abrasion resistance and dimension stability

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
0.5m/s	0~36MPa	-36℃ +100℃	Petroleum base hydraulic oil, fire-resistant fluid, biological oil, water, gas, etc., depending on materials of O-ring	50-1000mm



Installation Dimension

Rod Diameter	Groove Diameter	Sealing Width	Groove Width	Guiding Clearance δ_s	
d h8	D H9	H	L	0-10MPa	15-36MPa
50-79	d+10.0	4.5	5.0	0.40-0.30	0.30-0.25
80-109	d+13.8	7.0	7.5	0.45-0.35	0.35-0.30
110-299	d+20.0	9.5	10.0	0.55-0.45	0.45-0.35
300-600	d+24.0	12.5	13.0	0.60-0.55	0.55-0.45



Specification Table

Order No.	d h8	D H9	H	L	e
MAIS-36-50	50	60	4.5	5	6
MAIS-36-56	56	66	4.5	5	6
MAIS-36-63	63	73	4.5	5	7
MAIS-36-65	65	75	4.5	5	7
MAIS-36-70	70	80	4.5	5	7
MAIS-36-75	75	85	4.5	5	7

Order No.	d h8	D H9	H	L	e
MAIS-36-80	80	93.8	7.0	7.5	7
MAIS-36-85	85	98.8	7.0	7.5	7
MAIS-36-90	90	103.8	7.0	7.5	7
MAIS-36-95	95	108.8	7.0	7.5	7
MAIS-36-100	100	113.8	7.0	7.5	7
MAIS-36-110	110	130	9.5	10	10

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★Materials

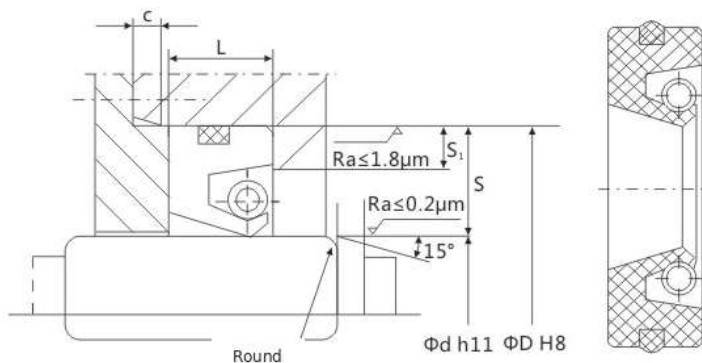
Sealing ring: PTFE/ carbon/ graphite composite D32

O-ring: FKM80

Spring: stainless steel

Working Conditions

Working Temperature	Working Pressure	Peripheral Speed
-20℃~+205℃	≤4MPa	≤15m/s



Specification Table

Order No.	No.	Φ d	Φ D	L
MAIS-37-5A		5	15	6
MAIS-37-5B		5	16	7
MAIS-37-6		6	16	7
MAIS-37-7		7	16	7
MAIS-37-8A		8	18	5
MAIS-37-8B		8	22.15	7
MAIS-37-9.7		9.7	22	7
MAIS-37-10A		10	19	7
MAIS-37-10B		10	20	8
MAIS-37-10C		10	22	7
MAIS-37-10D		10	24	7

Order No.	No.	Φ d	Φ D	L
MAIS-37-10E		10	25	7
MAIS-37-10F		10	28	7
MAIS-37-12A		12	22	7
MAIS-37-12B		12	24	7
MAIS-37-12C		12	25	6
MAIS-37-12D		12	25	7
MAIS-37-12E		12	26	7
MAIS-37-12F		12	28	7
MAIS-37-12G		12	28	8
MAIS-37-12H		12	30	7
MAIS-37-13		13	25	6



Specification Table

Order No.	No.	Φ d	Φ D	L
MAIS-37-14A	14	24	8	
MAIS-37-14B	14	30	7	
MAIS-37-15A	15	24	7	
MAIS-37-15B	15	24	9	
MAIS-37-15C	15	26	7	
MAIS-37-15D	15	30	7	
MAIS-37-15E	15	30	8	
MAIS-37-15F	15	32	7	
MAIS-37-15G	15	35	7	
MAIS-37-15H	15	35	10	
MAIS-37-16A	16	26	7	
MAIS-37-16B	16	30	7	
MAIS-37-16C	16	30	10	
MAIS-37-16D	16	35	7	
MAIS-37-17A	17	28	6	
MAIS-37-17B	17	28	8	
MAIS-37-17C	17	30	7	
MAIS-37-17D	17	35	7	
MAIS-37-17E	17	35	8	
MAIS-37-18A	18	28	7	
MAIS-37-18B	18	30	7	
MAIS-37-18C	18	32	7	
MAIS-37-18D	18	35	7	
MAIS-37-18E	18	32	7	
MAIS-37-20A	20	30	7	
MAIS-37-20B	20	30	9	
MAIS-37-20C	20	32	6	
MAIS-37-20D	20	32	7	
MAIS-37-20E	20	35	7	
MAIS-37-20F	20	35	8	
MAIS-37-20G	20	40	7	
MAIS-37-20H	20	40	10	
MAIS-37-20I	20	47	7	
MAIS-37-20J	20	47	10	
MAIS-37-21	21	32	5	
MAIS-37-22A	22	35	7	
MAIS-37-22B	22	40	7	
MAIS-37-22C	22	40	8	
MAIS-37-22D	22	47	7	
MAIS-37-23	23	35	6	
MAIS-37-24A	24	35	8	

Order No.	No.	Φ d	Φ D	L
MAIS-37-24B	24	42	7	
MAIS-37-24C	24	45	8	
MAIS-37-25A	25	35	7	
MAIS-37-25B	25	35	8	
MAIS-37-25C	25	35	9	
MAIS-37-25D	25	38	7	
MAIS-37-25E	25	40	7	
MAIS-37-25F	25	42	7	
MAIS-37-25G	25	42	8	
MAIS-37-25H	25	47	9	
MAIS-37-25I	25	47	10	
MAIS-37-25J	25	52	7	
MAIS-37-25K	25	52	10	
MAIS-37-27	27	47	7	
MAIS-37-28A	28	40	6	
MAIS-37-28B	28	40	7	
MAIS-37-28C	28	42	7	
MAIS-37-28D	28	44	10	
MAIS-37-28E	28	47	7	
MAIS-37-28F	28	47	10	
MAIS-37-28G	28	52	7	
MAIS-37-30A	30	40	7	
MAIS-37-30B	30	42	6	
MAIS-37-30C	30	42	7	
MAIS-37-30D	30	45	7	
MAIS-37-30E	30	47	7	
MAIS-37-30F	30	47	8	
MAIS-37-30G	30	47	10	
MAIS-37-30H	30	50	7	
MAIS-37-30I	30	52	7	
MAIS-37-32A	32	45	8	
MAIS-37-32B	32	47	7	
MAIS-37-32C	32	47	8	
MAIS-37-32D	32	47	10	
MAIS-37-32E	32	52	8	
MAIS-37-32F	32	54	8	
MAIS-37-33	33	45	7	
MAIS-37-34	34	44	7	
MAIS-37-35A	35	47	7	
MAIS-37-35B	35	47	8	
MAIS-37-35C	35	50	7	



Specification Table

Order No.	No.	Φ d	Φ D	L
MAIS-37-35D		35	50	8
MAIS-37-35E		35	50	10
MAIS-37-35F		35	52	6
MAIS-37-35G		35	52	7
MAIS-37-35H		35	52	8
MAIS-37-35I		35	55	8
MAIS-37-35J		35	62	8
MAIS-37-35K		35	72	8
MAIS-37-37		37	50	10
MAIS-37-38A		38	55	8
MAIS-37-38B		38	58	8
MAIS-37-38C		38	62	8
MAIS-37-40A		40	52	8
MAIS-37-40B		40	55	7
MAIS-37-40C		40	55	8
MAIS-37-40D		40	55	10
MAIS-37-40E		40	60	8
MAIS-37-40F		40	60	10
MAIS-37-40G		40	62	8
MAIS-37-40H		40	62	9
MAIS-37-40I		40	62	10
MAIS-37-40J		40	67	7
MAIS-37-42A		42	55	7
MAIS-37-42B		42	55	8
MAIS-37-42C		42	58	7
MAIS-37-42D		42	60	8
MAIS-37-42E		42	60	10
MAIS-37-42F		42	62	8
MAIS-37-43		43	60	10
MAIS-37-45A		45	58	7
MAIS-37-45B		45	60	8
MAIS-37-45C		45	62	7
MAIS-37-45D		45	62	8
MAIS-37-45E		45	62	10
MAIS-37-45F		45	65	8
MAIS-37-45G		45	65	10
MAIS-37-45H		45	72	8
MAIS-37-45I		45	72	10
MAIS-37-47		47	65	10
MAIS-37-48A		48	62	8
MAIS-37-48B		48	62	10

Order No.	No.	Φ d	Φ D	L
MAIS-37-48C		48	65	8
MAIS-37-48D		48	65	10
MAIS-37-48E		48	68	10
MAIS-37-48F		48	72	10
MAIS-37-48G		48	72	12
MAIS-37-50A		50	62	8
MAIS-37-50B		50	65	8
MAIS-37-50C		50	65	10
MAIS-37-50D		50	68	8
MAIS-37-50E		50	70	8
MAIS-37-50F		50	70	10
MAIS-37-50G		50	72	8
MAIS-37-50H		50	72	10
MAIS-37-50I		50	75	10
MAIS-37-50J		50	78	12
MAIS-37-50K		50	80	7
MAIS-37-52A		52	68	8
MAIS-37-52B		52	72	8
MAIS-37-55A		55	70	8
MAIS-37-55B		55	70	10
MAIS-37-55C		55	72	8
MAIS-37-55D		55	72	10
MAIS-37-55E		55	80	8
MAIS-37-55F		55	80	10
MAIS-37-55G		55	90	7
MAIS-37-55H		55	90	10
MAIS-37-58A		58	78	12
MAIS-37-58B		58	80	8
MAIS-37-60A		60	72	8
MAIS-37-60B		60	75	7
MAIS-37-60C		60	75	8
MAIS-37-60D		60	80	5
MAIS-37-60E		60	80	7
MAIS-37-60F		60	80	8
MAIS-37-60G		60	80	10
MAIS-37-60H		60	82	12
MAIS-37-60I		60	85	8
MAIS-37-60J		60	85	10
MAIS-37-60L		60	106	7
MAIS-37-62A		62	80	8
MAIS-37-62B		62	80	10



Specification Table

Order No.	No.	Φ d	Φ D	L
MAIS-37-63		63	90	10
MAIS-37-65A		65	80	10
MAIS-37-65B		65	85	8
MAIS-37-65C		65	85	10
MAIS-37-65D		65	90	10
MAIS-37-65E		65	100	10
MAIS-37-70A		70	85	8
MAIS-37-70B		70	90	7
MAIS-37-70C		70	90	8
MAIS-37-70D		70	90	9
MAIS-37-70E		70	90	10
MAIS-37-70F		70	95	10
MAIS-37-70G		70	100	10
MAIS-37-72		72	100	10
MAIS-37-75A		75	95	10
MAIS-37-75B		75	95	13
MAIS-37-75C		75	100	10
MAIS-37-80A		80	100	10
MAIS-37-80B		80	110	10
MAIS-37-82		82	105	14
MAIS-37-84		84	110	12
MAIS-37-85A		85	100	12
MAIS-37-85B		85	110	10
MAIS-37-85C		85	110	12
MAIS-37-85D		85	120	12
MAIS-37-86		86	105	10
MAIS-37-90A		90	110	6
MAIS-37-90B		90	110	10
MAIS-37-90C		90	110	12
MAIS-37-90D		90	110	13
MAIS-37-90E		90	115	13
MAIS-37-90F		90	120	12
MAIS-37-95A		95	120	12
MAIS-37-95B		95	125	12
MAIS-37-100A		100	120	12
MAIS-37-100B		100	120	13
MAIS-37-100C		100	125	12
MAIS-37-100D		100	130	12

Order No.	No.	Φ d	Φ D	L
MAIS-37-100E		100	130	13
MAIS-37-105A		105	130	8
MAIS-37-105B		115	130	12
MAIS-37-110A		110	128	9
MAIS-37-110B		110	130	8
MAIS-37-110C		110	130	12
MAIS-37-100C		110	140	12
MAIS-37-110E		110	140	13
MAIS-37-115A		115	140	12
MAIS-37-115B		115	150	12
MAIS-37-120A		120	140	12
MAIS-37-120B		120	140	13
MAIS-37-120C		120	150	12
MAIS-37-125A		125	150	12
MAIS-37-125B		125	150	15
MAIS-37-125C		125	160	12
MAIS-37-130A		130	150	15
MAIS-37-130B		130	160	12
MAIS-37-130C		130	160	15
MAIS-37-130D		130	170	15
MAIS-37-135		135	170	15
MAIS-37-140A		140	165	10
MAIS-37-140B		140	170	15
MAIS-37-150A		150	180	12
MAIS-37-150B		150	180	14
MAIS-37-150C		150	180	15
MAIS-37-155		155	190	15
MAIS-37-156		156	190	15
MAIS-37-160		160	190	15
MAIS-37-170		170	200	15
MAIS-37-175		175	205	15
MAIS-37-180		180	210	15
MAIS-37-200		200	230	15
MAIS-37-220A		220	250	10
MAIS-37-220B		220	250	15
MAIS-37-250A		250	280	16
MAIS-37-250B		250	280	18
MAIS-37-260		260	300	20

★Materials

PTFE bronze composite

★Product Application

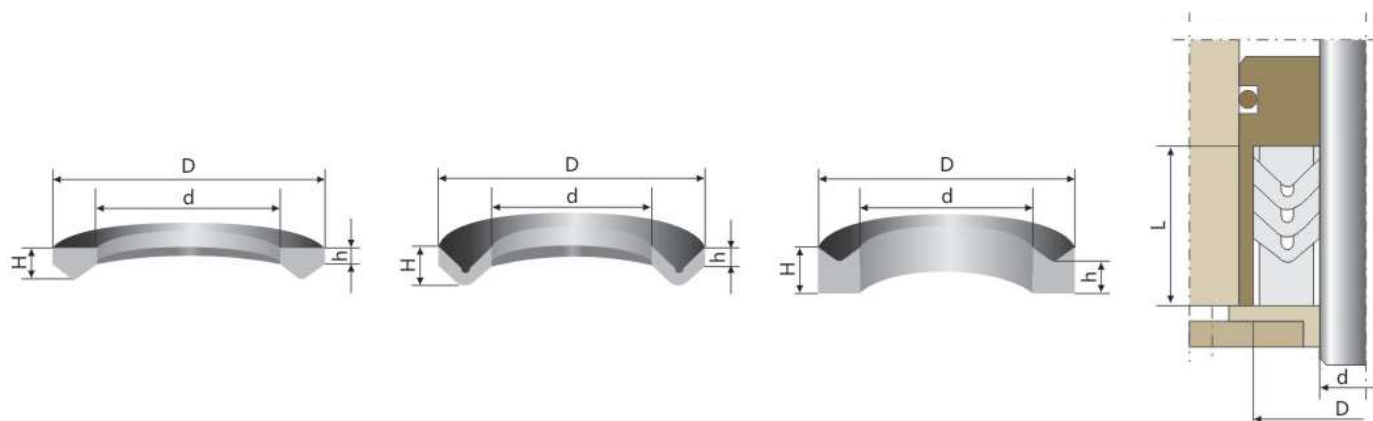
Used for sealing the piston and piston lever of the reciprocating hydraulic oil cylinder with ultrahigh pressure

★Application Range

Metallurgy, mine, hydraulic oil cylinder of general equipment and reaction kettle

★Working Conditions

Working Temperature	Working Pressure	Working Medium	Standard Source	Order Mark	Brief Notes
-40°C~+200°C	≤60MPa	Hydraulic oil	Enterprise standard	MAIS-38-80	V80×105





Specification Table

Order No.	Bearing Ring				Sealing Ring				Pressure Ring			
	d	D	H	h	d	D	H	h	d	D	H	h
MAIS-38-45	46	64	8	4	45	65	10	5.3	46	64	12.5	8.4
MAIS-38-50	51	69	8	4	50	70	10	5.3	51	69	12.5	8.4
MAIS-38-50A	51	74	8	4	50	75	10	5.3	51	74	12.5	8.4
MAIS-38-55	56	79	8	4	55	80	10	5.3	56	79	12.5	8.4
MAIS-38-60	64	79	8	4	60	80	10	5.3	64	79	12.5	8.4
MAIS-38-60A	64	84	8	4	60	85	10	5.3	64	84	12.5	8.4
MAIS-38-65	66	89	8	4	65	90	10	5.3	66	89	12.5	8.4
MAIS-38-70	71	94	8	4	70	95	10	5.3	71	94	12.5	8.4
MAIS-38-75	76	99	8	4	75	100	10	5.3	76	99	12.5	8.4
MAIS-38-80	81	104	8	4	80	105	10	5.3	81	104	12.5	8.4
MAIS-38-85	86	109	8	4	85	110	10	5.3	86	109	12.5	8.4
MAIS-38-90	91	114	8	4	90	115	10	5.3	91	114	12.5	8.4
MAIS-38-95	96	119	8	4	95	120	10	5.3	96	119	12.5	8.4
MAIS-38-100	101	119	8	4	100	120	10	5.3	101	119	12.5	8.4
MAIS-38-100A	101	124	8	4	100	125	10	5.3	101	124	12.5	8.4
MAIS-38-110	112	133	8	4	110	135	10	5.3	112	133	12.5	8.4
MAIS-38-110A	112	138	10	5.5	110	140	12	6.4	112	138	15	10.5
MAIS-38-120	122	148	10	5.5	120	150	12	6.4	122	148	15	10.5
MAIS-38-125	127	148	10	5.5	125	150	12	6.4	127	148	15	10.5
MAIS-38-130	132	158	10	5.5	130	160	12	6.4	132	158	15	10.5
MAIS-38-140	142	168	10	5.5	140	170	12	6.4	142	168	15	10.5
MAIS-38-150	152	178	10	5.5	150	180	12	6.4	152	178	15	10.5
MAIS-38-160	162	188	10	5.5	160	190	12	6.4	162	188	15	10.5
MAIS-38-170	172	198	10	5.5	70	200	12	6.4	172	198	15	10.5
MAIS-38-180	182	208	10	5.5	180	210	12	6.4	182	208	15	10.5
MAIS-38-200	202	228	10	5.5	200	230	12	6.4	202	228	15	10.5
MAIS-38-220	222	248	10	5.5	220	250	12	6.4	222	248	15	10.5
MAIS-38-230	232	258	10	5.5	230	260	12	6.4	232	258	15	10.5
MAIS-38-260	262	288	10	5.5	260	290	12	6.4	262	288	15	10.5
MAIS-38-270	272	298	10	5.5	270	300	12	6.4	272	298	15	10.5
MAIS-38-300	302	328	10	5.5	300	330	12	6.4	302	328	15	10.5
MAIS-38-320	322	358	12	5.6	320	360	16	8.5	322	358	20	13.6
MAIS-38-360	362	398	12	5.6	360	400	16	8.5	362	398	20	13.6
MAIS-38-400	402	438	12	5.6	400	440	16	8.5	402	438	20	13.6

★Material

The wear-resisting ring
is made of PF.

★Product Features

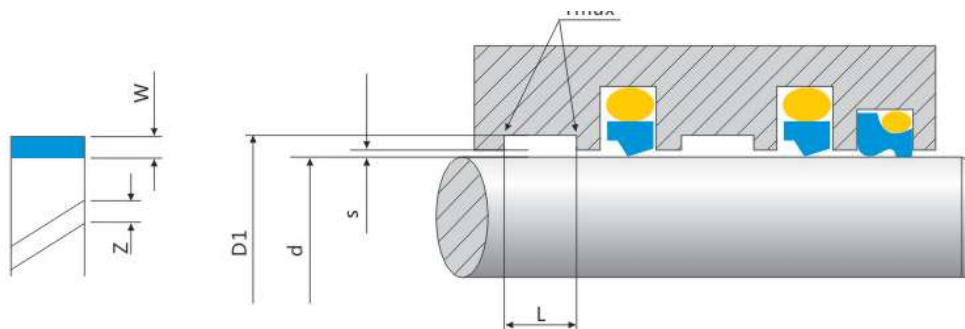
Piston lever is used with non-metal guide element.

★Product Performance

Used for the metal guide element of piston lever, and is also applicable for ISO 10766 standard chambers; with high load bearing capability, it can have elasticity before reaching brittleness temperature (not plasticity), the corner-rounding processing of guide ring can avoid generation of the edge clearance "extrusion" at the half round corner of cavity groove.

Working Conditions

Temperature	Operation Limitation	Bearing Capacity
-60°C~+120°C	Linear speed $\leq 1\text{m/s}$	$\leq 50\text{N/mm}^2$ below 120°C



Specification Table

Order No.	Rod Diameter	Bottom Diameter	Width	Thickness
	d f8/h9	D1 H8	L+0.2	W
MAIS-39-8	8.0	11.1	2.5	1.55
MAIS-39-10	10.0	13.1	2.5	1.55
MAIS-39-10A	10.0	13.1	4.0	1.55
MAIS-39-12	12.0	15.1	4.0	1.55
MAIS-39-14	14.0	17.1	4.0	1.55
MAIS-39-15	15.0	18.1	4.0	1.55
MAIS-39-16	16.0	19.1	4.0	1.55
MAIS-39-16A	16.0	21.0	5.6	2.50
MAIS-39-18	18.0	21.1	4.0	1.55
MAIS-39-18A	18.0	23.0	5.6	2.50
MAIS-39-20	20.0	23.1	4.0	1.55
MAIS-39-20A	20.0	25.0	5.6	2.50
MAIS-39-20B	20.0	25.0	9.7	2.50
MAIS-39-22	22.0	25.1	4.0	1.55
MAIS-39-22A	22.0	27.0	5.6	2.50
MAIS-39-22B	22.0	27.0	9.7	2.50
MAIS-39-25	25.0	28.1	4.0	1.55
MAIS-39-25A	25.0	30.0	5.6	2.50
MAIS-39-25B	25.0	30.0	9.5	2.50
MAIS-39-27	27.0	32.0	5.6	2.50
MAIS-39-27A	27.0	32.0	9.7	2.50
MAIS-39-28	28.0	31.1	4.0	1.55
MAIS-39-28A	28.0	33.0	5.6	2.5
MAIS-39-28B	28.0	33.0	9.7	2.5
MAIS-39-30	30.0	35.0	5.6	2.5
MAIS-39-30A	30.0	35.0	9.7	2.5
MAIS-39-32	32.0	37.0	5.6	2.5
MAIS-39-32A	32.0	37.0	9.7	2.5
MAIS-39-35	35.0	40.0	5.6	2.5
MAIS-39-35A	35.0	40.0	9.7	2.5
MAIS-39-36	36.0	41.0	5.6	2.5
MAIS-39-36A	36.0	41.0	9.7	2.5
MAIS-39-40	40.0	45.0	5.6	2.5
MAIS-39-40A	40.0	45.0	9.7	2.5
MAIS-39-40B	40.0	45.0	15.0	2.5
MAIS-39-42	42.0	47.0	5.6	2.5
MAIS-39-43	43.0	48.0	5.6	2.5
MAIS-39-45	45.0	50.0	5.6	2.5

Order No.	Rod Diameter	Bottom Diameter	Width	Thickness
	d f8/h9	D1 H8	L+0.2	W
MAIS-39-45A	45.0	50.0	9.7	2.5
MAIS-39-48	48.0	53.0	5.6	2.5
MAIS-39-48A	48.0	53.0	9.7	2.5
MAIS-39-50	50.0	55.0	5.6	2.5
MAIS-39-50A	50.0	55.0	9.7	2.5
MAIS-39-52	52.0	57.0	5.6	2.5
MAIS-39-52A	52.0	57.0	9.7	2.5
MAIS-39-55	55.0	60.0	5.6	2.5
MAIS-39-55A	55.0	60.0	9.7	2.5
MAIS-39-56	56.0	61.0	5.6	2.5
MAIS-39-56A	56.0	61.0	9.7	2.5
MAIS-39-58	58.0	63.0	5.6	2.5
MAIS-39-58A	58.0	63.0	9.7	2.5
MAIS-39-60	60.0	65.0	5.6	2.5
MAIS-39-60A	60.0	65.0	9.7	2.5
MAIS-39-63	63.0	68.0	5.6	2.5
MAIS-39-63A	63.0	68.0	9.7	2.5
MAIS-39-63B	63.0	68.0	15.0	2.5
MAIS-39-65	65.0	70.0	5.6	2.5
MAIS-39-65A	65.0	70.0	9.7	2.5
MAIS-39-70	70.0	75.0	5.6	2.5
MAIS-39-70A	70.0	75.0	9.7	2.5
MAIS-39-70B	70.0	75.0	15.0	2.5
MAIS-39-75	75.0	80.0	5.6	2.5
MAIS-39-75A	75.0	80.0	9.7	2.5
MAIS-39-75B	75.0	80.0	15.0	2.5
MAIS-39-80	80.0	85.0	5.6	2.5
MAIS-39-80A	80.0	85.0	9.7	2.5
MAIS-39-80B	80.0	85.0	15.0	2.5
MAIS-39-85	85.0	90.0	5.6	2.5
MAIS-39-85A	85.0	90.0	9.7	2.5
MAIS-39-90	90.0	95.0	15.0	2.5
MAIS-39-90A	90.0	95.0	5.6	2.5
MAIS-39-90B	90.0	95.0	9.7	2.5
MAIS-39-95	95.0	100.0	5.6	2.5
MAIS-39-95A	95.0	100.0	9.7	2.5
MAIS-39-95B	95.0	100.0	15.0	2.5
MAIS-39-100	100.0	105.0	5.6	2.5

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★Standard Material

PA, POM and F-PTFE

★Application Range

Guide sleeve used for piston lever, to support and guide the piston lever, as well as dust-proof.

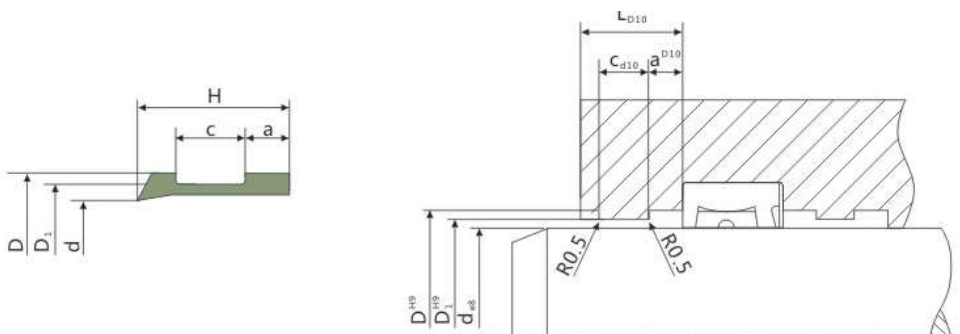
Please refer to the standards of FAI series of Hunger Company when designing.

★Features

- ▣ Well vibration reducing property (radial vibration)
- ▣ Being firm and easy for installation
- ▣ Matching with metal/ plastic material to avoid the phenomenon of "blocking" and "seizing"

★Working Conditions

Speed	Pressure Range	Temperature Range	Media	Available Diameter Range
3m/s	-	-55°C +225°C	Hydraulic oil, emulsion and water	28-200mm



Specification Table

Order No.	d	D	D ₁	H	L	c	a
MAIS-41-28	28	34	31	19	17	6	6.5
MAIS-41-30	30	36	33	19	17	6	6.5
MAIS-41-36	36	42	39	19	17	6	6.5
MAIS-41-40	40	46	43	19	17	6	6.5
MAIS-41-42	42	48	45	19	17	6	6.5
MAIS-41-45	45	51	48	19	17	6	6.5
MAIS-41-50	50	56	53	19	17	6	6.5
MAIS-41-55	55	61	58	19	17	6	6.5
MAIS-41-56	56	62	59	19	17	6	6.5
MAIS-41-60	60	70	65	24	21	7	8.5
MAIS-41-63	63	73	68	24	21	7	8.5
MAIS-41-65	65	75	70	24	21	7	8.5
MAIS-41-70	70	80	75	24	21	7	8.5
MAIS-41-72	72	82	77	24	21	7	8.5
MAIS-41-75	75	85	80	24	21	7	8.5
MAIS-41-80	80	90	85	24	21	7	8.5
MAIS-41-85	85	95	90	24	21	7	8.5
MAIS-41-90	90	100	95	24	21	7	8.5
MAIS-41-95	95	105	100	24	21	7	8.5
MAIS-41-100	100	110	105	24	21	7	8.5
MAIS-41-105	105	115	110	24	21	7	8.5
MAIS-41-110	110	120	115	24	21	7	8.5
MAIS-41-115	115	125	120	24	21	7	8.5
MAIS-41-120	120	130	125	24	21	7	8.5
MAIS-41-125	125	135	130	24	21	7	8.5
MAIS-41-130	130	140	135	24	21	7	8.5
MAIS-41-140	140	150	145	24	21	7	8.5

Specification Table

Order No.	d	D	D ₁	H	L	c	a
MAIS-41-150	150	162	156	35	31	15	10
MAIS-41-160	160	172	166	35	31	15	10
MAIS-41-165	165	177	171	35	31	15	10
MAIS-41-170	170	182	176	35	31	15	10
MAIS-41-180	180	192	186	35	31	15	10
MAIS-41-190	190	202	196	35	31	15	10
MAIS-41-200	200	212	206	35	31	15	10
MAIS-41-220	220	232	226	35	31	15	10
MAIS-41-225	225	237	231	35	31	15	10
MAIS-41-240	240	252	246	35	31	15	10
MAIS-41-250	250	262	256	35	31	15	10
MAIS-41-260	260	272	266	35	31	15	10
MAIS-41-280	280	292	286	35	31	15	10
MAIS-41-290	290	302	296	35	31	15	10
MAIS-41-300	300	312	306	35	31	15	10
MAIS-41-320	320	332	326	35	31	15	10
MAIS-41-350	350	362	356	35	31	15	10
MAIS-41-360	360	372	366	35	31	15	10
MAIS-41-380	380	392	386	35	31	15	10
MAIS-41-400	400	412	406	35	31	15	10
MAIS-41-415	415	427	421	35	31	15	10
MAIS-41-420	420	432	426	35	31	15	10
MAIS-41-425	425	437	431	35	31	15	10
MAIS-41-450	450	462	456	35	31	15	10
MAIS-41-480	480	492	486	35	31	15	10
MAIS-41-500	500	512	506	35	31	15	10
MAIS-41-560	560	572	566	35	31	15	10
MAIS-41-600	600	612	606	35	31	15	10
MAIS-41-630	630	642	636	35	31	15	10

★Material

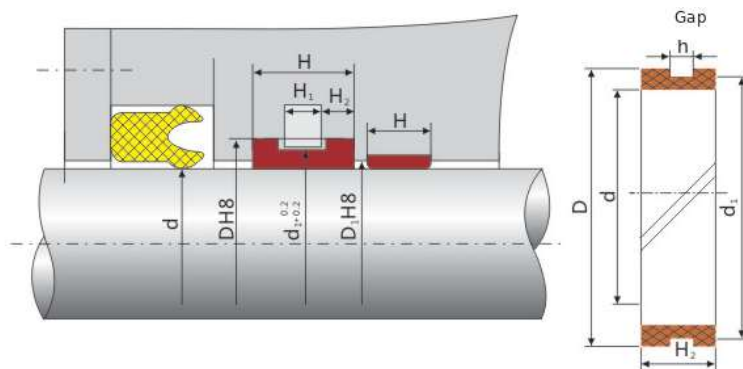
PTFE bronze composite

★Product Application

The guiding of carious oil cylinder and gas cylinder

★Working Conditions

Working Temperature	Working Pressure	Working Medium	Product Rigidity	Order Mark	Brief Notes
-180°C~+250°C	≤62MPa	Hydraulic oil, emulsion, compressed air and water	HS95±5A	MAIS-42-50	Mxd50

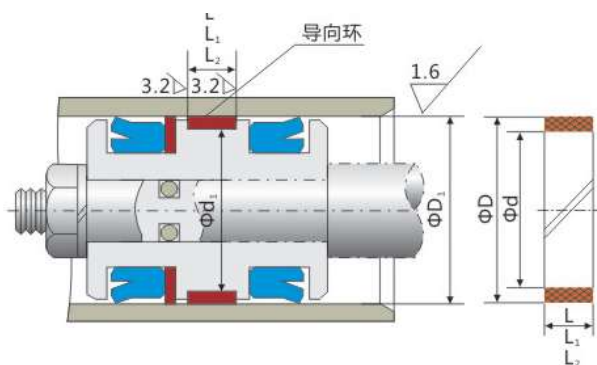


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★Product Application

★Working Conditions

Working Temperature	Working Pressure	Working Medium	Product Rigidity	Order Mark	Brief Notes
-180℃~+250℃	≤62MPa	Hydraulic oil, emulsion, compressed air and water	HS95±5A	MAIS-43-80×15	JXD80×15



Specification Table

Order No.	D	d	L	L ₁	L ₂	Installation Dimension							Tolerance	
						D ₁		d ₁		Nominal Dimension				
						Nominal Dimension	Tolerance	Nominal Dimension	Tolerance	L	L ₁	L ₂		
MAIS-43-12	12	7	6			12	+0.10 0	7	0 -0.10	6			+0.10 +0.05	
MAIS-43-16	16	11	6			16		11		6				
MAIS-43-20	20	15	6			20		15		6				
MAIS-43-25	25	20	10			25	+0.15 0	20	0 -0.15	10				+0.20 +0.10
MAIS-43-36	36	31	10			36		31		10				
MAIS-43-40	40	35	10	12	15	40		35		10	12	15		
MAIS-43-50	50	45	10	12	15	50		45		10	12	15		
MAIS-43-56	56	51	10	12	15	56		51		10	12	15		
MAIS-43-63	63	58	10	12	15	63		58		10	12	15		
MAIS-43-70	70	65	15	15	20	70		65		15	15	20		
MAIS-43-80	80	75	15	15	20	80		75		15	15	20		
MAIS-43-90	90	85	15	15	20	90		85		15	15	20		
MAIS-43-100	100	95	15	15	20	100	+0.20 0	95	0 -0.15	15	15	20	+0.20 +0.10	
MAIS-43-110	110	105	15	15	20	110		105		15	15	20		
MAIS-43-125	125	120	15	15	20	125		120		15	15	20		
MAIS-43-140	140	134	20	15	20	140		134		20	15	20		
MAIS-43-160	160	154	20	15	20	160		154		20	15	20		
MAIS-43-180	180	174	20	25	20	180		174		20	25	20		
MAIS-43-200	200	194	20	25	20	200		194		20	25	20		
MAIS-43-220	220	214	20	25	30	220		214		20	25	30		
MAIS-43-250	250	244	20	25	30	250		+0.25 0		244	0 -0.25	20		25
MAIS-43-280	280	274	20	35	30	280	274		20	35		30		
MAIS-43-320	320	312	25	35	30	320	312		25	35		30		
MAIS-43-360	360	352	25	35	30	360	352		25	35		30		
MAIS-43-400	400	392	25	35	30	400	392		25	35		30		

★Material

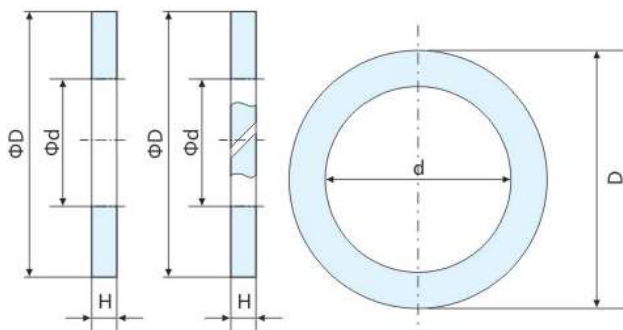
PTFE composite and PA 1010

★Product Application

Cooperate with the YX-type sealing ring when the working pressure of oil cylinder is more than 10MPa, or protecting the sealing ring when the oil cylinder is under pressure eccentrically.

★Working Conditions

Working Temperature	Working Pressure	Working Medium	Product Rigidity	Standard Source	Order Mark	Brief Notes
-40°C~+100°C	≤36MPa	Hydraulic oil, emulsion, and water	HS95±5A	Enterprise standard	MAIS-44-100	Check ring D100 (F ₄ , polyamide)



Specification Table

Order No.	Nominal Outer Diameter	Check Ring					
		D		d		H	
		Basic dimension	Tolerance	Basic dimension	Tolerance	Basic dimension	Tolerance
MAIS-44-16	16	16	-0.1	10	+0.04	1.5	±0.1
MAIS-44-18	18	18	-0.1	12	+0.04	1.5	±0.1
MAIS-44-20	20	20	-0.1	14	+0.04	1.5	±0.1
MAIS-44-22	22	22	-0.1	16	+0.04	1.5	±0.1
MAIS-44-25	25	25	-0.1	19	+0.05	1.5	±0.1
MAIS-44-28	28	28	-0.1	22	+0.05	1.5	±0.1
MAIS-44-30	30	30	-0.1	22	+0.05	1.5	±0.1
MAIS-44-32	32	32	-0.1	24	+0.05	1.5	±0.1
MAIS-44-35	35	35	-0.1	27	+0.05	1.5	±0.1
MAIS-44-40	40	40	-0.1	32	+0.05	1.5	±0.1
MAIS-44-43	43	43	-0.1	35	+0.05	1.5	±0.1
MAIS-44-45	45	45	-0.1	37	+0.05	1.5	±0.1
MAIS-44-50	50	50	-0.1	42	+0.05	1.5	±0.1
MAIS-44-55	55	55	-0.12	47	+0.05	1.5	±0.1
MAIS-44-56	56	56	-0.12	48	+0.05	2	±0.15
MAIS-44-60	60	60	-0.12	48	+0.07	2	±0.15
MAIS-44-63	63	63	-0.12	51	+0.07	2	±0.15
MAIS-44-65	65	65	-0.12	53	+0.07	2	±0.15
MAIS-44-70	70	70	-0.12	58	+0.07	2	±0.15
MAIS-44-75	75	75	-0.12	63	+0.07	2	±0.15
MAIS-44-80	80	80	-0.12	68	+0.07	2	±0.15
MAIS-44-85	85	85	-0.14	73	+0.07	2	±0.15
MAIS-44-90	90	90	-0.14	78	+0.07	2	±0.15
MAIS-44-95	95	95	-0.14	83	+0.07	2	±0.15
MAIS-44-100	100	100	-0.14	88	+0.07	2	±0.15
MAIS-44-105	105	105	-0.14	93	+0.07	2	±0.15
MAIS-44-115	115	115	-0.14	103	+0.07	2	±0.15
MAIS-44-120	120	120	-0.14	108	+0.07	2	±0.15
MAIS-44-125	125	125	-0.16	113	+0.08	2	±0.15
MAIS-44-130	130	130	-0.16	118	+0.08	2	±0.15
MAIS-44-140	140	140	-0.16	128	+0.08	2	±0.15
MAIS-44-150	150	150	-0.16	138	+0.08	2	±0.15
MAIS-44-160	160	160	-0.16	148	+0.08	2	±0.15
MAIS-44-170	170	170	-0.2	154	+0.09	3	±0.2
MAIS-44-180	180	180	-0.2	164	+0.09	3	±0.2
MAIS-44-185	185	185	-0.2	169	+0.09	3	±0.2
MAIS-44-190	190	190	-0.2	175	+0.09	3	±0.2

Specification Table

Order No.	Nominal Outer Diameter	Check Ring					
		D		d		H	
		Basic dimension	Tolerance	Basic dimension	Tolerance	Basic dimension	Tolerance
MAIS-44-200	200	200	-0.2	184	+0.09	3	±0.2
MAIS-44-210	210	210	-0.2	194	+0.09	3	±0.2
MAIS-44-220	220	220	-0.2	204	+0.09	3	±0.2
MAIS-44-230	230	230	-0.2	214	+0.09	3	±0.2
MAIS-44-240	240	240	-0.2	224	+0.09	3	±0.2
MAIS-44-250	250	250	-0.2	234	+0.09	3	±0.2
MAIS-44-265	265	265	-0.23	249	+0.1	3	±0.2
MAIS-44-275	275	275	-0.23	259	+0.1	3	±0.2
MAIS-44-280	280	280	-0.23	264	+0.1	3	±0.2
MAIS-44-300	300	300	-0.23	284	+0.1	3	±0.2
MAIS-44-310	310	310	-0.23	294	+0.1	3	±0.2
MAIS-44-320	320	320	-0.23	296	+0.1	3	±0.2
MAIS-44-340	340	340	-0.23	316	+0.1	3	±0.2
MAIS-44-360	360	360	-0.23	336	+0.1	3	±0.2
MAIS-44-380	380	380	-0.25	356	+0.12	3	±0.2
MAIS-44-400	400	400	-0.25	376	+0.12	3	±0.2
MAIS-44-420	420	420	-0.25	396	+0.12	3	±0.2
MAIS-44-440	440	440	-0.25	416	+0.12	3	±0.2
MAIS-44-450	450	450	-0.25	426	+0.12	3	±0.2
MAIS-44-480	480	480	-0.25	456	+0.12	3	±0.2
MAIS-44-500	500	500	-0.25	476	+0.12	3	±0.2
MAIS-44-530	530	530	-0.26	506	+0.14	3	±0.2
MAIS-44-560	560	560	-0.26	536	+0.14	3	±0.2
MAIS-44-600	600	600	-0.26	576	+0.14	3	±0.2
MAIS-44-630	630	630	-0.26	606	+0.14	3	±0.2
MAIS-44-650	650	650	-0.26	626	+0.14	3	±0.2
MAIS-44-105×8	105	105	-0.15	89	+0.1	2.5	±0.15
MAIS-44-110×8	110	110	-0.15	94	+0.1	2.5	±0.15
MAIS-44-115×8	115	115	-0.15	99	+0.1	2.5	±0.15
MAIS-44-120×8	120	120	-0.15	104	+0.1	2.5	±0.15
MAIS-44-125×8	125	125	-0.15	109	+0.1	2.5	±0.15
MAIS-44-130×8	130	130	-0.15	114	+0.1	2.5	±0.15
MAIS-44-140×8	140	140	-0.15	124	+0.1	2.5	±0.15
MAIS-44-145×8	145	145	-0.15	129	+0.1	2.5	±0.15
MAIS-44-150×8	150	150	-0.15	134	+0.1	2.5	±0.15
MAIS-44-155×8	155	155	-0.15	139	+0.1	2.5	±0.15
MAIS-44-160×8	160	160	-0.15	144	+0.1	2.5	±0.15

★Material

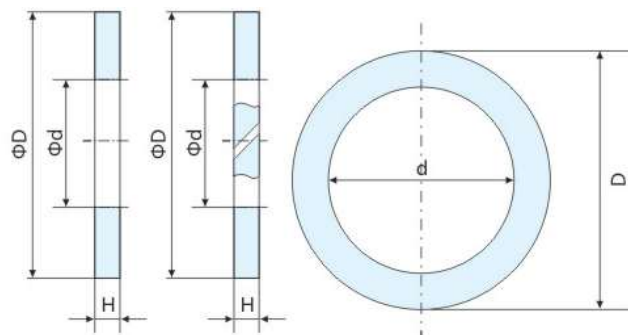
PTFE composite and PA 1010

★Product Application

Cooperate with the YX-type sealing ring when the working pressure of oil cylinder is more than 10MPa, or protecting the sealing ring when the oil cylinder is under pressure eccentrically.

★Working Conditions

Working Temperature	Working Pressure	Working Medium	Product Rigidity	Standard Source	Order Mark	Brief Notes
-40°C~+100°C	≤36MPa	Hydraulic oil, emulsion, and water	HS95±5A	Enterprise standard	MAIS-45-50	Check ring d50 (F ₄ , PA)





Specification Table

Order No.	Nominal Outer Diameter	Check Ring					
		D		d		H	
		Basic dimension	Tolerance	Basic dimension	Tolerance	Basic dimension	Tolerance
MAIS-45-8	8	8	+0.05	14	-0.2	1.5	±0.2
MAIS-45-10	10	10	+0.05	16	-0.2	1.5	±0.2
MAIS-45-12	12	12	+0.05	18	-0.2	1.5	±0.2
MAIS-45-14	14	14	+0.05	20	-0.2	1.5	±0.2
MAIS-45-16	16	16	+0.05	22	-0.2	1.5	±0.2
MAIS-45-18	18	18	+0.05	24	-0.05	1.5	±0.1
MAIS-45-20	20	20	+0.05	26	-0.05	1.5	±0.1
MAIS-45-22	22	22	+0.05	28	-0.05	1.5	±0.1
MAIS-45-22	22	22	+0.05	30	-0.05	1.5	±0.1
MAIS-45-25	25	25	+0.05	31	-0.05	1.5	±0.1
MAIS-45-28	28	28	+0.05	34	-0.05	1.5	±0.1
MAIS-45-30	30	30	+0.05	38	-0.05	1.5	±0.1
MAIS-45-32	32	32	+0.08	40	-0.05	1.5	±0.1
MAIS-45-35	35	35	+0.08	43	-0.05	1.5	±0.1
MAIS-45-36	36	36	+0.08	44	-0.05	2	±0.1
MAIS-45-40	40	40	+0.08	48	-0.05	2	±0.1
MAIS-45-45	45	45	+0.08	53	-0.05	2	±0.1
MAIS-45-50	50	50	+0.08	58	-0.12	2	±0.1
MAIS-45-55	55	55	+0.08	63	-0.12	2	±0.1
MAIS-45-56	56	56	+0.08	64	-0.12	2	±0.15
MAIS-45-60	60	60	+0.08	72	-0.12	2	±0.15
MAIS-45-63	63	63	+0.08	75	-0.12	2	±0.15
MAIS-45-65	65	65	+0.08	77	-0.12	2	±0.15
MAIS-45-70	70	70	+0.08	82	-0.12	2	±0.15
MAIS-45-72	72	72	+0.08	84	-0.12	2	±0.15
MAIS-45-75	75	75	+0.08	87	-0.12	2	±0.15
MAIS-45-80	80	80	+0.08	92	-0.12	2	±0.15
MAIS-45-86	86	86	+0.08	98	-0.12	2	±0.15
MAIS-45-88	88	88	+0.08	100	-0.12	2	±0.15
MAIS-45-90	90	90	+0.08	102	-0.12	2	±0.15
MAIS-45-95	95	95	+0.08	107	-0.12	2	±0.15
MAIS-45-100	100	100	+0.08	112	-0.12	2	±0.15
MAIS-45-105	105	105	+0.08	117	-0.12	2	±0.15
MAIS-45-110	110	110	+0.08	122	-0.12	2	±0.15
MAIS-45-120	120	120	+0.08	132	-0.12	2	±0.15
MAIS-45-125	125	125	+0.08	137	-0.2	2	±0.15
MAIS-45-130	130	130	+0.08	142	-0.2	2	±0.15

Specification Table

Order No.	Nominal Outer Diameter	Check Ring					
		D		d		H	
		Basic dimension	Tolerance	Basic dimension	Tolerance	Basic dimension	Tolerance
MAIS-45-140	140	140	+0.08	152	-0.2	2	±0.15
MAIS-45-145	145	145	+0.08	157	-0.2	2	±0.15
MAIS-45-150	150	150	+0.08	162	-0.2	2	±0.2
MAIS-45-160	160	160	+0.08	172	-0.2	2	±0.2
MAIS-45-170	170	170	+0.1	186	-0.2	2.5	±0.2
MAIS-45-180	180	180	+0.1	196	-0.2	2.5	±0.2
MAIS-45-190	190	190	+0.1	206	-0.2	2.5	±0.2
MAIS-45-200	200	200	+0.1	216	-0.2	2.5	±0.2
MAIS-45-210	210	210	+0.1	226	-0.2	2.5	±0.2
MAIS-45-220	220	220	+0.1	236	-0.2	2.5	±0.15
MAIS-45-235	235	235	+0.1	251	-0.2	2.5	±0.15
MAIS-45-240	240	240	+0.1	256	-0.2	2.5	±0.15
MAIS-45-250	250	250	+0.1	266	-0.2	2.5	±0.15
MAIS-45-260	260	260	+0.1	276	-0.2	2.5	±0.15
MAIS-45-280	280	280	+0.1	296	-0.2	2.5	±0.15
MAIS-45-300	300	300	+0.1	316	-0.2	2.5	±0.15
MAIS-45-320	320	320	+0.15	344	-0.25	3	±0.15
MAIS-45-340	340	340	+0.15	364	-0.25	3	±0.15
MAIS-45-360	360	360	+0.15	384	-0.25	3	±0.15
MAIS-45-380	380	380	+0.15	404	-0.25	3	±0.15
MAIS-45-400	400	400	+0.15	424	-0.25	3	±0.15
MAIS-45-420	420	420	+0.15	444	-0.25	3	±0.15
MAIS-45-450	450	450	+0.15	474	-0.25	3	±0.15
MAIS-45-500	500	500	+0.15	524	-0.25	3	±0.15
MAIS-45-560	560	560	+0.15	584	-0.25	3	±0.15
MAIS-45-600	600	600	+0.15	624	-0.25	3	±0.15
MAIS-45-630	630	630	+0.15	654	-0.25	3	±0.15
MAIS-45-650	650	650	+0.15	674	-0.25	3	±0.15
MAIS-45-105×8	105	105	+0.08	121	-0.2	2.5	±0.15
MAIS-45-110×8	110	110	+0.08	126	-0.2	2.5	±0.15
MAIS-45-120×8	120	120	+0.08	136	-0.2	2.5	±0.15
MAIS-45-125×8	125	125	+0.08	141	-0.2	2.5	±0.15
MAIS-45-130×8	130	130	+0.08	146	-0.2	2.5	±0.15
MAIS-45-140×8	140	140	+0.08	156	-0.2	2.5	±0.15
MAIS-45-145×8	145	145	+0.08	161	-0.2	2.5	±0.15
MAIS-45-150×8	150	150	+0.08	166	-0.2	2.5	±0.15
MAIS-45-155×8	155	155	+0.08	171	-0.2	2.5	±0.15

★Material

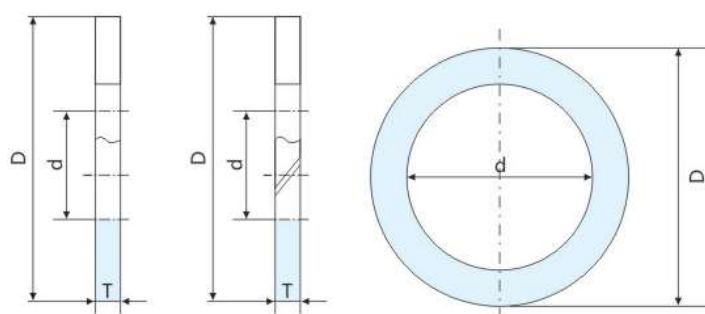
PTFE, composite and PA 1010

★Product Application

Protecting O-ring when working pressure is over 10MPa

★Working Conditions

Working Temperature	Working Pressure	Working Medium	Order Mark	Brief Notes
-40°C~+200°C	≤36MPa	Hydraulic oil, emulsion and water	MAIS-46-80×3.1	Check ring 80×3.1

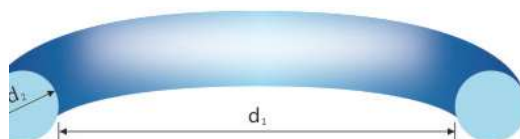




Specification Table

Order No.	O-ring		Check Ring				
	Nominal outer diameter	Section Diameter	D	Tolerance	d	Tolerance	Thickness
	D						T
MAIS-46-6×1.9	6	1.9	6	0 -0.14	3	+0.14 0	1.5± 0.12
MAIS-46-8×1.9	8	1.9	8		5		
MAIS-46-10×1.9	10	1.9	10		7		
MAIS-46-12×1.9	12	1.9	12		9		
MAIS-46-14×2.4	14	2.4	14		10		
MAIS-46-16×2.4	16	2.4	16		12		
MAIS-46-18×2.4	18	2.4	18		14		
MAIS-46-20×2.4	20	2.4	20		16		
MAIS-46-25×2.4	25	2.4	25	21			
MAIS-46-30×3.1	30	3.1	30	0 -0.20	25	+0.20 0	
MAIS-46-40×3.1	40	3.1	40		35		
MAIS-46-50×3.1	50	3.1	50		45		
MAIS-46-60×3.1	60	3.1	60	0	55	+0.25	
MAIS-46-70×3.1	70	3.1	70	-0.25	65	0	
MAIS-46-40×3.5	40	3.5	40	0 -0.20	34	+0.20 0	
MAIS-46-45×3.5	45	3.5	45		39		
MAIS-46-50×3.5	50	3.5	50		44		
MAIS-46-55×3.5	55	3.5	55		49		
MAIS-46-60×5.7	60	5.7	60	0 -0.25	50	+0.25 0	2± 0.12
MAIS-46-70×5.7	70	5.7	70		60		
MAIS-46-80×5.7	80	5.7	80		70		
MAIS-46-90×5.7	90	5.7	90		80		
MAIS-46-100×5.7	100	5.7	100		90		
MAIS-46-110×5.7	110	5.7	110		100		
MAIS-46-120×5.7	120	5.7	120		110		
MAIS-46-130×5.7	130	5.7	130		120		
MAIS-46-140×5.7	140	5.7	140		130		
MAIS-46-150×5.7	150	5.7	150		140		
MAIS-46-160×5.7	160	5.7	160		150		
MAIS-46-170×5.7	170	5.7	170		160		
MAIS-46-180×5.7	180	5.7	180		170		
MAIS-46-190×5.7	190	5.7	190		180		
MAIS-46-200×5.7	200	5.7	200		190		

Order No.	O-ring		Check Ring				
	Nominal outer diameter	Section Diameter	D	Tolerance	d	Tolerance	Thickness
	D						T
MAIS-46-80×3.1	80	3.1	80	0 -0.25	75	+0.25 0	1.5± 0.12
MAIS-46-90×3.1	90	3.1	90		85		
MAIS-46-100×3.1	100	3.1	100		95		
MAIS-46-110×3.1	110	3.1	110		105		
MAIS-46-120×3.1	120	3.1	120		115		
MAIS-46-130×3.1	130	3.1	130		125		
MAIS-46-140×3.1	140	3.1	140		135		
MAIS-46-150×3.1	150	3.1	150		145		
MAIS-46-160×3.1	160	3.1	160		155		
MAIS-46-28×3.5	28	3.5	28	0 -0.20	22	+0.20 0	
MAIS-46-30×3.5	30	3.5	30		24		
MAIS-46-32×3.5	32	3.5	32		26		
MAIS-46-35×3.5	35	3.5	35		29		
MAIS-46-38×3.5	38	3.5	38		32		
MAIS-46-220×5.7	220	5.7	220	0 -0.25	210	+0.25 0	2± 0.12
MAIS-46-250×5.7	250	5.7	250		240		
MAIS-46-280×5.7	280	5.7	280		270		
MAIS-46-300×5.7	300	5.7	300		290		
MAIS-46-170×8.6	170	8.6	170		155	+0.25 0	2.5± 0.15
MAIS-46-180×8.6	180	8.6	180		165		
MAIS-46-190×8.6	190	8.6	190		175		
MAIS-46-200×8.6	200	8.6	200		185		
MAIS-46-220×8.6	220	8.6	220		205		
MAIS-46-240×8.6	240	8.6	240		225		
MAIS-46-250×8.6	250	8.6	250		235		
MAIS-46-280×8.6	280	8.6	280		265		
MAIS-46-300×8.6	300	8.6	300		285		
MAIS-46-320×8.6	320	8.6	320		305		
MAIS-46-350×8.6	350	8.6	350		335		
MAIS-46-380×8.6	380	8.6	380		365		
MAIS-46-400×8.6	400	8.6	400		385		
MAIS-46-450×8.6	450	8.6	450		435		
MAIS-46-500×8.6	500	8.6	500		485		



★Materials

NBR, silicone and FKM

★Product Application

It is used for dynamic seal (seal of piston and piston lever) and static seal (axial seal) of hydropneumatic components

★Working Conditions

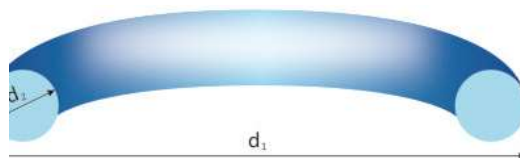
Working Temperature	Working Pressure	Working Medium	Standard Source	Order Mark	Brief Notes
-35 ~ +200℃	≤32MPa	Hydraulic oil, lubricating oil, air and water	GB3452.1-92	MAIS-47-80×2.65	O-ring 80×2.65

Specification Table

Inner Diameter d_1	Section Diameter d_2					Inner Diameter d_1	Section Diameter d_2					Inner Diameter d_1	Section Diameter d_2				
	1.8±0.08	2.65±0.09	3.5±0.1	5.3±0.13	7.0±0.15		1.8±0.08	2.65±0.09	3.5±0.1	5.3±0.13	7.0±0.15		1.8±0.08	2.65±0.09	3.5±0.1	5.3±0.13	7.0±0.15
1.80	*					5.30	*					11.2	*	*			
2.00	*					6.00	*					11.8	*	*			
2.24	*					6.30	*					12.5	*	*			
2.50	*					6.70	*					13.2	*	*			
2.80	*					6.90	*	*				14.0	*	*			
3.15	*					7.10	*	*				15.0	*	*			
3.55	*					7.50	*	*				16.0	*	*			
3.75	*					8.00	*	*				17.0	*	*			
4.00	*					8.50	*	*				18.0	*	*	*		
4.50	*					8.75	*	*				19.0	*	*	*		
4.87	*					9.00	*	*				20.0	*	*	*		
5.00	*					9.50	*	*				21.2	*	*	*		
5.15	*					10.0	*	*				22.4	*	*	*		
5.30	*					10.6	*	*				23.6	*	*	*		

Specification Table

Inner Diameter d_1	Section Diameter d_2					Inner Diameter d_1	Section Diameter d_2					Inner Diameter d_1	Section Diameter d_2				
	1.8±0.08	2.65±0.09	3.5±0.1	5.3±0.13	7.0±0.15		1.8±0.08	2.65±0.09	3.5±0.1	5.3±0.13	7.0±0.15		1.8±0.08	2.65±0.09	3.5±0.1	5.3±0.13	7.0±0.15
25.0	*	*	*			80.0		*	*	*		236				*	*
25.8	*	*	*			82.5			*	*		243					*
26.5	*	*	*			85.0		*	*	*		250				*	*
28.0	*	*	*			87.5			*	*		258					*
30.0	*	*	*			90.0		*	*	*		265				*	*
31.5	*	*	*			92.5			*	*		272					*
32.5	*	*	*			95.0		*	*	*		280				*	*
33.5	*	*	*			97.5			*	*		290					*
34.5	*	*	*			100		*	*	*		300				*	*
35.5	*	*	*			103			*	*		307					*
36.5	*	*	*			105		*	*	*		315				*	*
37.5	*	*	*			109			*	*	*	325					*
38.7	*	*	*			112		*	*	*	*	335				*	*
40.0	*	*	*	*		115			*	*	*	345					*
41.2	*	*	*	*		118		*	*	*	*	355				*	*
42.5	*	*	*	*		122			*	*	*	365					*
43.7	*	*	*	*		125		*	*	*	*	375				*	*
45.0	*	*	*	*		128			*	*	*	387					*
46.2	*	*	*	*		132		*	*	*	*	400				*	*
47.5	*	*	*	*		136			*	*	*	412					*
48.7	*	*	*	*		140		*	*	*	*	425					*
50.0	*	*	*	*		145			*	*	*	437					*
51.5		*	*	*		150		*	*	*	*	450					*
53.0		*	*	*		155			*	*	*	462					*
54.5		*	*	*		160		*	*	*	*	475					*
56.0		*	*	*		165			*	*	*	487					*
58.0		*	*	*		170		*	*	*	*	500					*
60.0		*	*	*		175			*	*	*	515					*
61.5		*	*	*		180		*	*	*	*	530					*
63.0		*	*	*		185			*	*	*	545					*
65.0	*	*	*	*		190			*	*	*	560					*
67.0		*	*	*		195			*	*	*	580					*
69.0		*	*	*		200			*	*		600					*
71.0		*	*	*		206				*	*	615					*
73.0		*	*	*		212				*	*	630					*
74.4		*				218					*	650					*
75.0		*	*	*		224			*	*	*	670					*
77.5			*	*		230				*	*						



★Materials

NBR, silicone and FKM

★Product Application

It is used for dynamic seal (seal of piston and piston lever) and static seal (axial seal) of hydropneumatic components

★Working Conditions

Working Temperature	Working Pressure	Working Medium	Standard Source	Order Mark	Brief Notes
-35 ~ +200°C	≤32MPa	Hydraulic oil, lubricating oil, air and water	GB1235-76	MAIS-48-80×2.65	O-ring 80×3.1

Specification Table

Inner Diameter d ₁	Section Diameter d ₂						Inner Diameter d ₁	Section Diameter d ₂						Inner Diameter d ₁	Section Diameter d ₂					
	1.9±0.08	2.4±0.09	3.1±0.1	3.5±0.1	5.7±0.13	8.6±0.16		1.9±0.08	2.4±0.09	3.1±0.1	3.5±0.1	5.7±0.13	8.6±0.16		1.9±0.08	2.4±0.09	3.1±0.1	3.5±0.1	5.7±0.13	8.6±0.16
5	*						19	*						33			*	*		
6	*						20	*	*					34				*		
7	*						21	*						35			*	*		
8	*						22	*	*					36						
9	*						23	*						37			*	*		
10	*	*					24	*	*					38			*	*		
11	*						25	*						40			*	*		
12	*						26	*	*					41				*		
13	*	*					27		*					42			*	*		
14	*	*					28	*	*	*				43				*		
15	*	*					29		*					44				*		
16	*	*					30	*	*	*				45			*	*	*	
17		*					31		*	*				46				*		
18		*	*				32	*	*	*				48			*	*		

Specification Table - O-ring (GB3452.1-82)

Inner Diameter d ₁	Section Diameter d ₂						Inner Diameter d ₁	Section Diameter d ₂						Inner Diameter d ₁	Section Diameter d ₂					
	1.9±0.08	2.4±0.09	3.1±0.1	3.5±0.1	5.7±0.13	8.6±0.16		1.9±0.08	2.4±0.09	3.1±0.1	3.5±0.1	5.7±0.13	8.6±0.16		1.9±0.08	2.4±0.09	3.1±0.1	3.5±0.1	5.7±0.13	8.6±0.16
50			*	*	*		145			*		*		275						*
51				*			150			*		*		280					*	*
52			*				155			*		*		285						*
54				*			160			*		*		290					*	*
55			*	*	*		165			*		*		295						*
56				*			170					*		300					*	*
60			*		*		175					*		305						*
62				*			180					*		310						*
63			*		*		185					*		315						*
65			*		*		190					*		320						*
70			*		*		195					*		330						*
73					*		200					*		335						*
75			*		*		205					*		350						*
80			*		*		210					*		360						*
85			*		*		215					*		370						*
90			*	*	*		220					*		375						*
95			*		*		225							380						*
100			*		*		230					*		390						*
105			*		*		235							395						*
110			*		*		240					*		400						*
115			*		*		245					*		415						*
120			*		*		250					*		420						*
125			*		*		255							450						*
130			*		*		260					*		480						*
135			*		*		265							500						*
140			*		*		270					*		520						*



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