Dear our valuable customers,

We had been established in Japan as the maker of general seals under the title of Meiwa., Co, for 73 years since 1932 and in Indonesia for 10 years since 1995.

We have faith on the competitive price, best goods, and early delivery. Please bring up as brand of MEIWA in the world by support of each user in the future.

私共の会社は 1932 年創業以来 73 年間、明和の商標の下に全般のシールの製造業者として日本で営業致しております。

私共 は 安い価格、良い品物、早い納期 を モットーに 販売して おります。

どうぞ将来に各ユーザーの支援の下に世界の市場に大きく羽ばたく 様に育って下さい。



## SPECIFICATION PRODUCT AND OTHER NAMES

		OTHER			Standart	Material			
	NAMES OF	NAMES				Service	Range		
NO	MEIWA'S PRODUCT	(SAME OF PRODUCT)	PICTURE	RAW MATERIAL /PART ITEM	Max. press {kgf / c		Max. speed (m / s )	Tempt ( <sup>0</sup> C)	Applicable liquid fluid
1	BUFFER RING	SL, SL BUFFER		1 Nylon	With nylon as back up ring	28 (280)	0.3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
				2 Nitrille Rubber					Ose water in oil emuisions
2	CUSSON RING	WRP, N4B (NYLON CREAM MILK), SRT, CURING		1 Fluon RA/ Nylon		35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
3	FIGA			1 Fluon RA 2 O-ring 1/2 (NBR)	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
4	HBT-R	-		1 Fluon RA	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions
				2 O ring (NBR)					Use water in oil emulsions
5	HTM	HBT NOK TYPE		1 Fluon RA 2 O ring (NBR)	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
6	KZM	SR, WRM TAPE RING, SLYD RING, CWR, KZT-SR, KZT		1 Fluon RA	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
7	NCF A1	-		1 Fluon RA (2 Pcs) 2 Rubber	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions
				3 White Nylon (2 pcs)	With nylon as back up ring				Use water in oil emulsions
			<u></u>	1 Rubber	Such up mig				Use mineral oil
8	NCF A0	-		2 White Nylon (2 pcs)	With nylon as back up ring	35 (350)	3	-30~100	Use water polyglical solutions Use water in oil emulsions
9	RSR - O	ROD SEAL RING WITH O-RING		1 Fluon RA O ring Nitrille Rubber)	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
10	RSR - R	ROD SEAL RING WITH RUBBER		Fluon RA     Nitrille Rubber	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
11	SPGA	-		1 Fluon RA 2 O ring (NBR)	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
12	SPGM	SPGO		1 Fluon RA 2 O ring (NBR)	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
13	SPN	SGR, STM-B, HBM S, SPNC		Fluon RA     Nitrille Rubber	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
14	SPNM	SPN 0		1 Fluon RA 2 O ring (NBR)	With fluon as back up ring	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
				1 Fluon RA					
15	SGM-B	SPGW, SPGT, SGM		2 Rubber	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
				3 Black Nylon	With nylon as back up ring				



Characteristic	Main Usage	Page
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	1
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	2
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	3
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	4
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	5
Most popular packings for hedraulik cylinder. Available for both piston and rods. Because they are suitable for instailaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduce	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	7
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinder for robots.	10
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinder for robots.	11
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	12
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	13
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	14
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	15
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	16
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	17
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinder for robots.	18



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16	SSM	STEP SEAL, E-RING, BUFFER SEAL, SSW, STEP WITH ORING		1 Fluon RA 2 O ring (NBR)	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
$\vdash\vdash$				2 o mig (NBI ()	With fluor or				
17	STM	SPG, SGR, SG		1 Fluon RA	With fluon as back up ring	28 (280)	0.3	-30~100	Use mineral oil Use water polyglical solutions
	S I W	3FG, 3GK, 3G		2 Nitrille Rubber		20 (200)	0.3	-30-700	Use water in oil emulsions
18	TB ZIN 1	SEAL RING, TEFLUON RING		1 Fluon RA	1	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
		D-SEAL, GLYD RING, SLIPPER SEAL,		1 Fluon RA					Use mineral oil
19	SLM	SPGY, STM + O RING, GL, QRS, D- RING, SPG8D,SPG6D		2 O ring (NBR)	-	25 (250)	3	-30~100	Use water polyglical solutions Use water in oil emulsions
	LIDTM	K TYPE, HBK BUFFER, BUFFER		1 Fluon RA		05 (050)		00.400	Use mineral oil
20	HBTM	RING, KYB TYPE, HBTY, SBTYN KYB TYPE, HBTS, HBK		2 Nitrille Rubber	-	35 (350)	3	-30~100	Use water polyglical solutions Use water in oil emulsions
				1 Fluon RA	_				Han min and all
21	HNM	HBTZ, HBTY NEW TYPE, HBTM NEW		2 Nitrille Rubber	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
				3 Green Nylon					ose water in oil entaisione
22	ODM	ODI	Y	1 Yellow Urethane	With fluon as back up ring	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
23	IDM	IDI	Y	1 Yellow Urethane	With fluon as back up ring	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
24	LPM	LPI, LPIY, WIPPER, WPS	Y	1 Yellow Urethane	-	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
25	DSM	DSI		1 Yellow Urethane	-	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
26	UPM	UPI, USI		1 Yellow Urethane	With fluon as back up ring	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
27	ROM	ROL, SQUARE RING, RIO, PU SEAL, POL, ROI		1 Yellow Urethane	-	28 (280)	0.3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
28	SPNRM	SPNRI		Blue Urethane     White Nylon (Rilsan)	-	28 (280)	0.3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
29	LBM	LBI	K	1 Yellow Urethane	-	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
30	НВІ	-		1 Ye <b>ll</b> ow Urethane	-	28 (280)	0.3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions



Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	21
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	23
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for instailaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	28
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	29
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	32
Combined seal rings made of TEFLON (PTFE) with 0-(square) ring made of synthetic rubber. Small friction resistance. No stick slip even at low pressure and low temperature.	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	34
Exclusively for piston or rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk.  Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	36
Exclusively for piston or rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C. So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	38
Exclusively forr rods. Compatible with UPM-Packings regarding the groove. Suitable for use at ~45 c to +100C. So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	41
Exclusively forr rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Small diameter cylinders.	43
Exclusively for piston or rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C. So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	44
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	49
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	50
Exclusively forr rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	51
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	53



2	_						I		<u> </u>		
1   Yellow Userhane   2   Steel fing   3   5(350)   3   -30-100   Use mineral cill Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   Use water polygical solutions   1   Yellow Userhane   2   Steel fing   - 35 (350)   3   -30-100   U	31	НВМ	НВҮ, НВМ-В	$\sim$	1 Yellow Urethane	-	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions	
32   DWM-B					2 White/Black Nylon					Use water in oil emulsions	
2   Steel ring   1   Yellow Urethane   -   35 (350)   3   -30-100   Use mineral oil Use water in oil emulsions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water in oil emulsions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water polyglical solutions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water polyglical solutions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water not in emulsions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water not in emulsions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water not in emulsions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water not in emulsions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water not in emulsions   1   Yellow Urethane   -   35 (350)   3   -30-100   Use water not invalid not	32	DWM-B			1 Yellow Urethane	<u>-</u>	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions	
33   DWM-A   DWI			DKM ITPE-B, DWK-B		2 Steel ring		. ,				
2   Steel ring	33	DWM-A	DWI	m√7	1 Yellow Urethane	<u>-</u>	35 (350)	3	-30~100		
34   DKBM				[اركا	2 Steel ring						
2   Steel ring	34	DKBM	DKBI DBMI	<u>ر</u>	1 Yellow Urethane	_	35 (350)	3	-30~100		
35   DKBM - B   DKBY		BROW	5.15., 55		2 Steel ring		00 (000)	Ů	00 100		
2   Steel ring     Use water n oil emulsions     Use water n oil emulsions     Use water n oil emulsions	35	DKBW B	DVPV		1 Yellow Urethane		35 (350)	2	20~100		
2 Steel ring  1 Yellow Urethane 2 Steel ring  2 Steel ring  1 Yellow Urethane 2 Steel ring  2 Steel ring  35 (350) 3 -30-100 Use mineral oil Use water polyglical solutions Use water rin oil emulsions  Use mineral oil Use water polyglical solutions Use water in oil emulsions  1 Yellow Urethane 2 Steel ring  3 S (350) 3 -30-100 Use mineral oil Use water polyglical solutions Use water in oil emulsions  Use water in oil emulsions  Use water in oil emulsions  2 Steel ring  3 S (350) 3 S -30-100  3		DKBW-B	BRBT		2 Steel ring	_	33 (330)	3	-30 100		
2   Steel ring   Use water in oil emulsions	36	DLM	DLI		1 Yellow Urethane		35 (350)	2	20~100		
37   PPM		DEIVI	521		2 Steel ring	_	33 (330)	3	-30 100		
2 Steel ring  1 Yellow Urethane 2 Steel ring  1 Yellow Urethane 2 Steel ring  1 Yellow Urethane 2 Steel ring  2 Steel ring  3 3 -30~100  3 -30~100  3 -30~100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 5 -100  4 6 -100  4 6 -100  4 7 -100  4 7 -100  4 8 -100  4 8 -100  4 9 -10	37	DDM	DDV		1 Yellow Urethane		35 (350)	2	20~100		
38 DKM DKI  2 Steel ring  - 35 (350)  3 -30-100  Use water polyglical solutions Use water in oil emulsions  Use water in oil emulsions  Use water polyglical solutions Use water in oil emulsions  1 Rubber  With fluon as back up ring  21 (210)  0.5 -45-100  Use mineral oil Use water polyglical solutions Use water in oil emulsions  With fluon as back up ring  21 (210)  0.5 -45-100  Use mineral oil Use water in oil emulsions  Use water in oil emulsions  With rylon as back up ring  21 (210)  0.5 -45-100  Use mineral oil Use water polyglical solutions Use water in oil emulsions  2 With rylon as back up ring 2 White/Black Nylon  2 White/Black Nylon  Use mineral oil Use water polyglical solutions Use water in oil emulsions  Use water in oil emulsions  Use water in oil emulsions		FFIVI	FFI	ЩИ	2 Steel ring	<u>-</u>	33 (330)	3	-30-100		
2 Steel ring  Use water in oil emulsions  1 Rubber  With fluon as back up ring  2 (210)  0.5  -45-100  Use mineral oil Use water polyglical solutions Use water in oil emulsions  1 Rubber  With fluon as back up ring  2 (210)  0.5  -45-100  Use mineral oil Use water polyglical solutions Use water in oil emulsions  1 Rubber  With fluon as back up ring  2 (210)  0.5  -45-100  Use mineral oil Use water polyglical solutions Use water in oil emulsions  1 Rubber  With fluon as back up ring  2 (210)  0.5  -45-100  Use mineral oil Use water polyglical solutions Use water in oil emulsions  1 Rubber  With nylon as back up ring  2 (210)  0.5  -45-100  Use mineral oil Use water polyglical solutions Use water in oil emulsions  Use water in oil emulsions  Use water in oil emulsions	20	DKM	וארו		1 Yellow Urethane		35 (350)	2	30~100		
39 IDH   -   1 Rubber   With fluon as back up ring   21 (210)   0.5   -45~100   Use water polyglical solutions		DRIVI	BRI		2 Steel ring	_	33 (330)	9	-30 100		
40 ODH - 1 Rubber With fluon as back up ring 21 (210) 0.5 -45~100 Use water polyglical solutions Use water in oil emulsions  1 Rubber With fluon as back up ring 21 (210) 0.5 -45~100 Use water in oil emulsions  1 Rubber With fluon as back up ring 21 (210) 0.5 -45~100 Use water polyglical solutions Use water in oil emulsions  1 Rubber With nylon as back up ring 21 (210) 0.5 -45~100 Use water in oil emulsions  2 White/Black Nylon 21 (210) 0.5 -45~100 Use water polyglical solutions Use water in oil emulsions	39	IDH		Y	1 Rubber		21 (210)	0.5	-45~100	Use water polyglical solutions	
41 UPH  - 1 Rubber With fluon as back up ring 21 (210) 0.5 -45~100 Use water polyglical solutions Use water in oil emulsions  1 Rubber With nylon as back up ring 21 (210) 0.5 -45~100 Use water in oil emulsions  2 White/Black Nylon 21 (210) 0.5 -45~100 Use water polyglical solutions Use water in oil emulsions	40	ODH		7	1 Rubber		21 (210)	0.5	-45~100	Use water polyglical solutions	
42 EKM UKH UKH 2 Mhite/Black Nylon 21 (210) 0.5 -45~100 Use water polyglical solutions Use water in oil emulsions	41	UPH		7	1 Rubber		21 (210)	0.5	-45~100	Use water polyglical solutions	
2 White/Black Nylon Use water in oil emulsions	40	FIZM		$\bigcirc$	1 Rubber		04 (040)	0.5	45 400		
	42	EKIVI	UKH		2 White/Black Nylon		21 (210)	0.5	<del>-4</del> 5~100		
	40	DKBH	DVD DDM	<u>-7</u>	1 Rubber		25 (250)	2	20, 400		
43 DKBH DKB, DBM - 35 (350) 3 -30~100 Use water polyglical solutions Use water in oil emulsions	43	DKBH	DKB, DBINI		2 Steel Ring	-	35 (350)	3	-30~100	Use water polyglical solutions Use water in oil emulsions	
1 Rubber With fluon as back up ring 21 (210) 0.5 -45~100 Use mineral oil Use water polyglical solutions	11	11111	IUV	<b>√</b> 7	1 Rubber		24 (240)	0.5	AE100		
21 (210) 0.5 -45~100 Use water polyglical solutions Use water in oil emulsions	44	IUII	IUT		2 White Nylon		21 (210) 0.5 -45~1		<del>-4</del> 5~100	Use water polyglical solutions Use water in oil emulsions	
45 LBH - 21 (210) 0.5 -45~100 Use mineral oil Use water polyglical solutions Use water in oil emulsions	45	LBH	-	K	1 Rubber	-	21 (210)	0.5	-45~100	Use water polyglical solutions	
46 OHM - With nylon as back up ring 21 (210) 0.5 -45~100 Use mineral oil Use water polyglical solutions	46	ОНМ		N	1 Rubber		21 (210)	0.5	<b>-</b> 45~100	Use mineral oil Use water polyglical solutions	
2 White Nylon 21 (210) 0.3 45 100 Use water in oil emulsions		OTTIVI			2 White Nylon		21 (210)	0.0	40 100		



Exclusively for piston or rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	54
Exclusively forr rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C. So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	56
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Exclusively for piston. Compatible with UPH-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the rubber hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	70
Exclusively for piston or rods. Compatible with UPH-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the rubber hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	72
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						1	1		1
47	CUP SEAL	-	$\bowtie$	1 Rubber	With nylon as back up ring	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions
				2 White Nylon					Use water in oil emulsions
48	OKY	OUY	$\langle \mathcal{N} \rangle$	1 Urethane		21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions
10	OKI			2 Black Nylon	With nylon as back up ring	21 (210)	0.0	40 100	Use water in oil emulsions
49	OUM	OUY	M 1	1 Rubber		21 (210)	0.5	<b>-</b> 45~100	Use mineral oil Use water polyglical solutions
	00111		Ь	2 Ring White Nylon	With nylon as back up ring	()			Use water in oil emulsions
50	WRM	WEARING, WR		1 Cotton Cloth 3. Resin	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions
Ш				2 Acetone 4. Methanol		, ,			Use water in oil emulsions
51	Р	-		1 Fluon G 340	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
52	G			1 Fluon G 340	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
53	BRT	-		1 Fluon G 340	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
54	SR	SUPPORT RING		1 Fluon G 340	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
55	TR - 2R	-		1 Fluon Glass	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
56	DR - TG	DUST RING		1 Fluon Glass	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
57	BNGN	BRT Nylon (Green)		1 Green Nylon	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
58	BNGY	BRT Nylon (Grey)		1 Grey Nylon	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
59	BBT	BRT BRONZE TEFLUON		1 Fluon RA (Bronze)	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
60	ISM	151	Y	1 Urethane	With teflon as back up ring	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
61	OSM	OSI	Y	1 Urethane	With teflon as back up ring	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
62	BTG	GLASS RING		1 Tefluon Glass	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
63	WR-GY	RING		1 Nylon	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions



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Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	85
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	100
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	103
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	105
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for instailaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	113
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for instailaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	114
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Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for instailaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	126
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for instailaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	128



				1 Yellow Urethane					Use mineral oil
64	YOM	YOI , SPTM-C		2 Fluon RA	-	28 (280)	0.3	-30~100	Use water polyglical solutions Use water in oil emulsions
65	BRN	BRY	M	1 Black Nylon	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
66	DSN	TFW		1 Black Nylon	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
67	KZM-Z	-		1 Fluon RA	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
68	TR-SC	-		1 Fluon RA	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
69	DSML	-	M	1 Yellow Urethane	-	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
70	SPNRT	-		1 Fluon RA 2 Yellow Urethane	-	28 (280)	0.3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
71	DKBM-S			Yellow Urethane     Steel ring	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
72	RB TG			1 White Fluon 2 Rubber	-	28 (280)	0.3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
73	ІНМ В		y	1 Rubber 2 White Nylon	-	21 (210)	0.5	-45~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
74	DBH			1 Rubber 2 Steel ring	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
75	UPM-X			1 Rubber 2 Urethane	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
76	UPM-O		T	1 Rubber 2 Urethane	<u>-</u>	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
77	SPNC			1 Rubber 2 Fluon RA	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
78	OUM-A		Y	1 Rubber 2 White Nylon	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions
79	OUM-B		Y	1 Rubber 2 White Nylon	-	35 (350)	3	-30~100	Use mineral oil Use water polyglical solutions Use water in oil emulsions



Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	129
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Special cylinders. Rotating join	130
Exclusively for piston or rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Cylinder for general industrial machines. Special cylinders. Rotating join	131
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	132
Most popular packings for hedraulik cylinder. Available for piston. Because they are suitable for installaing in the one piece groove, it makes it posible to reduce the number of parts ittems and to make a compact design, resulting in reduced costs,	Cylinder for general industrial machines. Cylinder for construction machines. Cylinder for special use	133
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Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	135
Exclusively forr rods. Compatible with UPM-Packings regarding the groove. Suitable for use at -45 c to +100C .So it is unnessesary to replace packings even if spesified for domestic or international cold districk. Desainged hard to cause stik slip. As the urethan hardness emphasize cold resistane, be carreful when using under high pressure or high frequency.	Standart cylinder. Cylinder for construction and industrial vehicles. Cylinders for robots.	136
Abundand size listed for general use. Used for rotating joints. exclusively for rods. High sealing perfomance and high durability	Cylinder for general industrial machines. Special cylinders. Rotating join	137
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