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Seal it with a smile

Profile Index

Seals for reciprocating application

Design	Ref.		Pressure (bar)	Tep. (°C)	Speed (m/s)	Material	Dimensions metr.	inch
	K 30	**Piston seal**	400	- 30 +100	15	PTFE-bronze-compound/NBR 70	■	■
	K 31	**Piston seal**	400	- 30 +100	15	PTFE-bronze-compound/NBR 70	■	■
	K 04	**Piston seal**	160	- 30 +100	2	PTFE-bronze-compound/NBR 70	■	■
	K 01	**Piston seal**	400	- 30 +100	0,5	NBR-impregnated fabric/polyester-elastomer/POM	■	■
	K 12	**Piston seal**	400	- 30 +100	0,5	NBR-impregnated fabric/POM	■	■
	K 02	**Piston seal**	400	- 30 +100	0,5	NBR-impregnated fabric	■	
	K 13	**Piston seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	K 14	**Piston seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	K 16	**Piston seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	K 06	**Piston seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric	■	■
	K 07	**Piston seal**	700	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	K 08	**Piston seal**	700	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	K 20	**Piston seal**	500	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	K 21	**Piston seal**	700	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	K 03	**Piston seal**	300	- 30 +100	0,5	NBR/polyester-elastomer/POM	■	■
	K 22	**Piston seal**	350	- 30 +100	0,5	NBR impregnated fabric/NBR/POM	■	
	K 10	**Piston seal**	150	- 30 +100	0,5	NBR/POM	■	■
	K 24	**Piston seal**	400	- 30 +100	0,5	AU/NBR/POM	■	
	K 25	**Piston seal**	700	- 30 +100	0,5	NBR-impregnated fabric/NBR/POM	■	
	K 05	**Piston seal**	500	- 30 +100	0,5	NBR/polyester-elastomer/POM	■	
	K 09	**Piston seal**	500	- 30 +100	0,5	NBR/polyester-elastomer/POM	■	■
	K 15	**Piston seal**	40	- 30 +100	0,5	NBR 80/metal	■	
	K 17	**Piston seal**	60	- 30 +100	0,5	NBR 90/metal	■	
	K 18	**Piston seal**	10	- 30 +100	1	NBR 70/metal	■	
	S 30	**Rod seal**	400	- 30 +100	15	PTFE-bronze-compound/NBR 70	■	■
	S 31	**Rod seal**	400	- 30 +100	15	PTFE-bronze-compound/NBR 70	■	■
	S 06	**Rod seal**	160	- 30 +100	2	PTFE-bronze-compound/NBR 70	■	■
	S 01	**Rod seal**	400	- 30 +100	0,5	NBR-impregnated fabric/NBR/polyesterelastomer/POM	■	■
	S 02	**Rod seal**	400	- 30 +100	0,5	NBR-impregnated fabric/NBR/polyesterelastomer/POM	■	■
	S 03	**Rod seal**	400	- 30 +100	0,5	NBR-impregnated fabric/NBR/polyesterelastomer/POM	■	■
	S 04	**Rod seal**	400	- 30 +100	0,5	NBR-impregnated fabric/NBR/polyesterelastomer/POM	■	■
	S 13	**Piston-/ Rod seal**	400	- 30 +100	0,5	NBR-impregnated fabric	■	■
	S 14	**Rod seal**	400	- 30 +100	0,5	NBR-impregnated fabric	■	■
	S 15	**Rod seal**	400	- 30 +100	0,5	NBR-impregnated fabric	■	■
	S 12	**Rod seal**	700	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	S 05	**Piston-/ Rod seal**	200	- 30 +100	0,5	NBR/NBR-impregn. fabric	■	■
	S 07	**Rod seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	
	MA 13	**Rod seal**	250	- 30 +100	0,5	NBR-impregnated fabric	■	

Design	Ref.		Pressure (bar)	Tep. (°C)	Speed (m/s)	Material	Dimensions metr.	inch
	MA 14	**Piston seal**	700	- 30 +100	0,5	NBR-impregnated fabric/NBR/POM	■	
	MA 15	**Piston-/ Rod seal**	180	- 30 +100	0,5	NBR/NBR-impregn. fabric	■	■
	MA 16	**Rod seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	MA 17	**Piston seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	MA 18	**Piston seal**	400	- 30 +100	0,5	NBR/NBR-impregn. fabric/POM	■	■
	MA 21	**Piston-/ Rod seal**	160	- 30 +100	0,5	NBR 90	■	■
	MA 22	**Piston-/ Rod seal**	100	- 30 +100	0,5	NBR 90	■	■
	MA 23	**Piston seal**	80	- 30 +100	0,5	NBR 75	■	■
	MA 24	**Rod seal**	160	- 30 +100	0,5	NBR 90	■	■
	MA 25	**Piston-/ Rod seal**	300	- 40 +100	0,5	AU 92	■	■
	MA 28	**Piston seal**	400	- 40 +100	0,5	AU 92	■	
	MA 30	**Rod seal**	400	- 40 +100	0,5	AU 92	■	■
	MA 39	**Rod seal**	400	- 40 +100	0,5	AU 92	■	■
	MA 41	**Rod seal**	400	- 40 +100	0,5	AU 92/POM	■	■
	MA 36	**Piston-/ Rod seal**	400	- 40 +100	0,5	AU 92	■	
	MA 35	**Rod seal**	400	- 40 +100	0,5	AU 92	■	■
	MA 37	**Rod seal**	400	- 40 +100	0,5	AU 92/POM	■	
	MA 42	**Piston-/ Rod seal**	400	- 30 +100	0,5	AU 92/NBR 70		■
	MA 43	**Rod seal**	350	- 150 +250	15	PTFE-compounds spring steel AISI 301	■	■
	MA 44	**Piston seal**	350	- 150 +250	15	PTFE-compounds spring steel AISI 301	■	■
	MA 31	**Piston seal**	40	- 30 +100	0,5	NBR 90	■	■
	MA 32	**Rod seal**	40	- 30 +100	0,5	NBR 90	■	■
	A 40	**Wiper**		- 40 +100	4	NBR 90	■	■
	A 41	**Wiper**		- 40 +100	4	NBR 90	■	
	A 50	**Wiper**		- 40 +100	4	NBR 90	■	■
	A 52	**Wiper**		- 40 +100	0,5	NBR 90		■
	AD 51	**Double Wiper**		- 40 +100	1	NBR 90	■	
	AD 53	**Double Wiper**		- 40 +100	1	NBR 90	■	■
	AM 43	**Wiper**		- 40 +100	1	NBR 90 / steel DIN 1624	■	
	AM 45	**Wiper**		- 40 +100	1	NBR 90 / steel DIN 1624	■	
	A 42	**Wiper**		- 40 +100	2	AU 92	■	
	A 47	**Wiper**		- 40 +100	2	AU 92	■	
	AD 48	**Double Wiper**		- 30 +100	1	AU 92	■	
	AD 70	**Double Wiper**		- 30 +100	2	AU 98/ NBR 70	■	
	AD 71	**Double Wiper**		- 30 +100	2	AU 98/ NBR 70	■	
	AM 44	**Wiper**		- 40 +100	2	AU 92/ steel DIN 1624	■	■
	AM 54	**Wiper**		- 40 +100	1	AU 92/ steel DIN 1624	■	■
	ADM 55	**Double Wiper**		- 40 +100	1	AU 92/ steel DIN 1624	■	
	A 80	**Wiper**		- 30 +100	15	PTFE/bronze NBR 70	■	
	AD 60	**Double Wiper**		- 30 +100	15	PTFE/bronze NBR 70	■	
	AD 61	**Double Wiper**		- 30 +100	15	PTFE/bronze NBR 70	■	
	FUR 02	**Piston guide ring**		- 60 +200	15	PTFE-compounds	■	■
	FUR 04	**Piston guide ring**		- 40 +130	0,5	POM-glas-compound	■	■
	FUR 06	**Piston guide ring**		- 50 +130	0,5	polyester-based fabric laminate	■	■
	FUR 01	**Rod guide ring**		- 60 +200	15	PTFE-compounds	■	■
	FUR 03	**Rod guide ring**		- 40 +130	0,5	POM-glas-compound	■	■
	FUR 05	**Rod guide ring**		- 50 +130	0,5	polyester-based fabric laminate	■	■
W G Z	**FUB 01**	**Guide strip Piston-/Rod**		- 60 +200	15	PTFE-compounds	■	■

Seals for rotating application

Design	Ref.		Material	Dimensions	metr.	inch
	WDR	**Rotary shaft seal** Standard types A, B, C With and without protective lip Specials: Completely covered metal case, Without spring With helix With grooves on the o.d. Double protective lip, Reinforced sealing lip, for higher pressure,	NBR FPM VMQ EPDM ACM Also: Other elastomers Spring in Stainless steel AISI 304 PTFE-plated sealing lip	Nat./intern. standards up to 600 mm o.d.	■	■
		for outside sealing				
	WCL	**Rotary shaft seal** Non-moulded type Also: With additional protective lip	Metal case + NBR + FPM + VMQ + Leather + PTFE Elastomer or felt	From 50 mm up to 1700 mm o.d. nearly any size From 50 mm up to 1300 mm o.d.	■	■
	VIA	**Rotary shaft seal** Completely covered metal case Also: With protective lip	FPM 80 Spring in stainless steel AISI 304	Nat./intern. standards up to 600 mm o.d.	■	■
	WEPO	**Rotary shaft seal** With spring enegized sealing lip and O-ring as static housing seal Lathed type Also: With protective lip	PTFE-carbon-compound Spring in stainless steel AISI 316 Ti FPM 80	Any size up to 1300 mm o.d.	■	■
	WCP 21	**Rotary shaft seal** Non-moulded type	Metal case from stainless steel AISI 316L + FPM Sealing lip consisting of PTFE-compound	From 30 mm up to 500 mm o.d. nearly any size	■	■
	WE **WE 5** **WE 6** **WE 7**	**Rotary shaft seal** Also: Split type Pure elastomer without fabric reinforcement	NBR NBR-impregnated fabric + steel spring Also: Other elastomere + stainless steel spring AISI 304	Up to 1800 mm o.d.	■	■
	VR	**V-Ring** VA VS VE VL	NBR 60 FPM 70 Also: Other elastomers	3 - 2000 mm shaft diameter 5 - 199 mm shaft diameter 450 - 2000 mm shaft diameter 140 - 400 mm shaft diameter	■	
	VRM 1 **VRM 2**	**Axial seal** Also: With extended metal housing, outside seal protection against dirt	NBR Metal housing anti-corrosion plated Also: Other elastomers Metal case from stainless steel AISI 304	Up to 250 mm o.d.	■	
	MA 47	**Radial U-ring** Preferably used with extreme temperatures and aggresive media	PTFE, PTFE-compounds V-spring in stainless steel AISI 304 V-spring in Elgiloy®	Up to 1300 mm o.d.	■	■
	WDI 32	**Radial seal inside sealing** Preferably for rotating and swiveling movements	PTFE-compounds NBR Also: Other PTFE-compounds and elastomers	Up to 1300 mm o.d.	■	■
	WDA 32	**Radial seal outside sealing** Preferably used with extreme temperatures and aggresive media	PTFE-compounds NBR Also: Other PTFE-compounds and elastomers	Up to 1300 mm o.d.	■	■
		GLAND PACKING Braid-Over-Braid				
		GLAND PACKING Interlocked				
		GLAND PACKING Plaited				

Material indication according to ISO 1629

	Elastomer	Trade-names®
NR	Natural rubber	Natsyn, Carilflex IR
IR	Isoprene rubber	
SBR	Styrene-butadiene rubber	Buna Hüls, Polysar S, Solprene
BR	Butadiene rubber	Buna CB, Polybutadien K
IIR	Isobutylene-isoprene rubber	Polysar Butyl, Esso-Butyal
EPDM	Ethylene-propylene-terpolymer	Keltan, Buna AP, Dutral
NBR	Acrylnitrile-butadine rubber	Perbunan, Polysar-Krynac
ECO	Epichlohydrin rubber	Herclor, Hydrin
CR	Chloroprene rubber	Baypren, Neoprene
CSM	chlorosulfonated polyethylene	Hypalon
AU, EU	Polyurethane	Urepan, Desmopan
HNBR	Hydrous acrylonitrile-butadiene rubber	Therban, Zetpol
Q } MVQ / PVMQ	Silikon rubber	Silopren
FVMQ	Fluorosilicone rubber	Silastic
FPM	Fluorinated rubber	Viton, Fluorel, Tecnoflon
ACM	Polyacrylate rubber	Hycar
FFKM	Perfluorinated rubber	Kalrez, Perlast
PTFE	Polytetrafluoroethylene	Teflon, Hostaflon
(POM)	Polyoxymethylene	Delrin, Hostaform
(PA)	Polyamide	Ultramid,
	Polyesterelastomer	Hytel, Ultradur
(1.4301, 1.4310)	Stainless steel	
(1.4571)	Stainless steel	
	Stainless steel	Elgiloy, trade-name registered by Elgiloy Corp.

Seals for rotating application

Design	Ref.		Material	Dimensions	metr.	inch
	WA	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1		■	■
	WAS	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1		■	■
	WB	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1		■	■
	WBS	**Rotary shaft seal**	NBR 70/ steel DIN EN 10139		■	■
	WC	**Rotary shaft seal**	NBR 70/ steel DIN EN 10139		■	■
	WCS	**Rotary shaft seal**	NBR 70/ steel DIN EN 10139		■	■
	WAO	**Rotary shaft seal**	NBR 70/ steel DIN EN 10139		■	■
	WBO	**Rotary shaft seal**	NBR 70/ steel DIN EN 10139		■	■
	WAK	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1		■	■
	WAG	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1		■	■
	WAY	**Rotary shaft seal**	FPM 80/ steel DIN EN 10270-1			
	WASY	**Rotary shaft seal**	FPM 80/ steel DIN EN 10270-1		■	■
	WAX	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1			
	WAD	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1		■	■
	WBD	**Rotary shaft seal**	NBR 70/ steel DIN EN 10270-1			
	WE5	**Rotary Shaft Seal**	NBR 80/FPM 80/ fabric/steel 1.4301		■	■
		Cassette Seals				
		Deep Grove Ball Bearing				
		Cylindrical Roller Bearing				
		Tapered Roller Bearing Assembly				
		Tapered Roller Bearing				
		Spherical Roller Bearing				
A B C		**HEAVY DUTY MECHANICAL FACE SEALS** **Seal groups with duo-cone metal rings outside and toric rings**				
A B C		**HEAVY DUTY MECHANICAL FACE SEALS** **Seal groups with metal rings "L" shaped and square rubber rings**				

Static Seals

Design	Ref.		metr.	inch
	OR	**O-ring**	■	■
	XR	**X-ring**	■	
	FLR	**Washer**	■	■
	MIR	**Valve seal**	■	
	STU	**Back-up-ring**	■	■
	MA 45	**U-ring outside sealing**	■	■
	MA 46	**U-ring inside sealing**	■	■
	FOR	**Custom-moulding**	■	■
	RS	**Cord**	■	■
	US	**Bonded seal**	■	■
	VER	**Cover seal**	■	■
	SR	**Circlip**	■	
	BOX	**Cord service box**	■	■
	BOX	**O-Ring-Sortiment**	■	■