Lathe-cut products

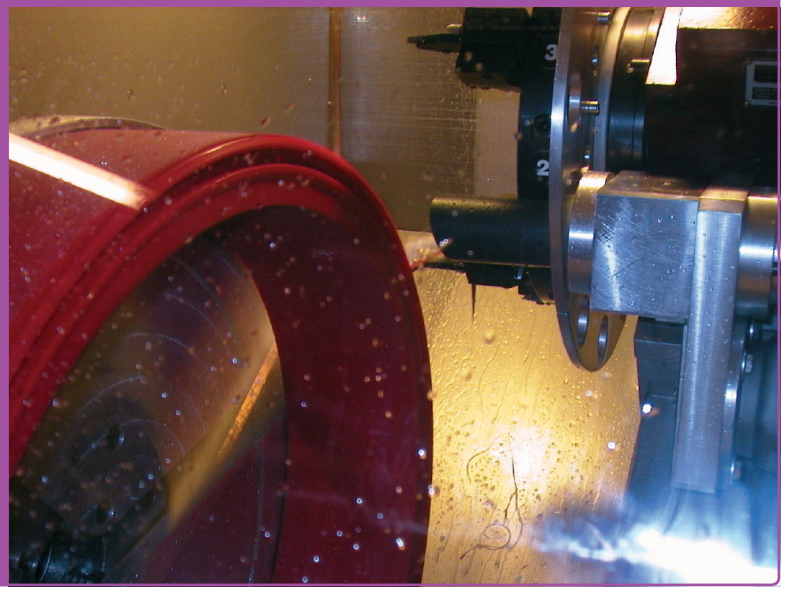
Our sleeve turning equipment allows us to develop seals and hydraulic components from 5 to 1000 mm in size while maintaining maximum quality.

Thanks to this particular technology we are able to offer our clients rapid and customized solutions for any special requests such as single parts, small quantities or series while at the same time reducing developing time, waiting, repairing or dead times.

Our sales program foresees a range of more than 150 standard profiles that can be modified to fit your needs.

In addition we also offer a wide range of special materials all made for the seal production and hydraulic components.

For further information and inquiries you are kindly requested to contact our technical office.



Profiles

Wipers

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-WR01	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR01A	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR02	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR02A	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR02B	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR02C	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR02D	PU PU-D57	-	-30 / +105	4
	T-WR03	PU/POM NBR/POM	-	-30 / +105 -25 / +100	4
	T-WR04	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR07	POM PA	-	-50 / +80 -50 / +80	1

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-WR08	POM PA	-	-50 / +80 -50 / +80	1
	T-WR11	PU NBR	15	-30 / +105 -25 / +100	4
	T-WR12	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR13	PTFE/NBR	15	-25 / +100	10
	T-WR13_EZ	PTFE/NBR	15	-25 / +100	10
	T-WR14	PTFE/NBR	-	-25 / +100	10
	T-WR15	PTFE/NBR	15	-25 / +100	10
	T-WR17	PU NBR	-	-30 / +105 -25 / +100	4
	T-WR18	PU NBR	-	-30 / +105 -25 / +100	4

* The temperature can change choosing different materials according to working conditions.

Profiles

Rod seals

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-RS01	PU NBR FPM	400 160 160	-30 / +105 -25 / +100 -20 / +210	0,5
	T-RS01A	PU NBR FPM	300 160 160	-30 / +105 -25 / +100 -20 / +210	1
	T-RS01B	PU NBR FPM	400 160 160	-30 / +105 -25 / +100 -20 / +210	0,5
	T-RS01C	PU NBR FPM	400 160 160	-30 / +105 -25 / +100 -20 / +210	0,5
	T-RS02	PU/POM NBR/POM FPM/PTFE	700 250 250	-30 / +100 -25 / +100 -20 / +210	0,5
	T-RS02A	PU/POM NBR/POM FPM/PTFE	700 250 250	-30 / +100 -25 / +100 -20 / +210	0,5
	T-RS02B	PU/PTFE	400	-30 / +105	0,5
	T-RS02C	PU/POM	700	-25 / +100	5
	T-RS03	PU/NBR	400	-25 / +100	0,5
	T-RS04	PU/NBR/POM	700	-25 / +100	0,5
	T-RS05	PU NBR	25	-30 / +105 -25 / +100	1
	T-RS08	PU NBR	400 160	-30 / +105 -25 / +100	0,3

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-RS09	PU-D57/NBR PTFE/NBR	600	-25 / +100	5 10
	T-RS09A	PU-D57/NBR PTFE/NBR	600	-25 / +100	5 10
	T-RS09B	PU-D57/NBR PTFE/NBR	600	-25 / +100	5 10
	T-RS91	PU-D57/NBR PTFE/NBR	600	-25 / +100	5 10
	T-RS91B	PU-D57/NBR PTFE/NBR	600	-25 / +100	5 10
	T-RS16	PU NBR	160	-30 / +105 -25 / +100	0,5
	T-RS17	PU NBR	400 160	-30 / +105 -25 / +100	0,5
	T-RS17A	PU/POM	700	-30 / +100	0,5
	T-RS17B	PU/NBR	400	-25 / +100	0,5
	T-RS17C	PU/NBR/POM	700	-25 / +100	0,5
	T-RS17D	PU NBR	400 160	-30 / +105 -25 / +100	0,5
	T-RS17E	PU/POM	700	-30 / +100	0,4

* The temperature can change choosing different materials according to working conditions.

Profiles

Rod seals

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-RS19	PTFE-virgin / V-spring PTFE-filled / V-spring	200 400	-200 / +260	15
	T-RS19A	PTFE/V-spring	150	-200 / +260	2
	T-RS20	NBR/POM	700	-25 / +100	0,5
	T-RS31-33	PU/POM	500	-30 / +100	0,5
	T-RS35	PU	400	-30 / +105	0,4

Piston seals

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-PS01	PU NBR FPM	400 160 160	-30 / +105 -25 / +100 -20 / +210	0,5
	T-PS01A	PU NBR FPM	300 160 160	-30 / +105 -25 / +100 -20 / +210	0,5
	T-PS01B	PU NBR FPM	400 160 160	-30 / +105 -25 / +100 -20 / +210	0,5
	T-PS01C	PU NBR FPM	400 160 160	-30 / +105 -25 / +100 -20 / +210	0,5
	T-PS02	PU/POM NBR/POM FPM/PTFE	700 250 250	-30 / +100 -25 / +100 -20 / +210	0,5
	T-PS02A	PU/POM NBR/POM FPM/PTFE	700 250 250	-30 / +100 -25 / +100 -20 / +210	0,5
	T-PS03	PU/NBR	400	-25 / +100	0,5
	T-PS04	PU/NBR/POM	700	-25 / +100	0,5
	T-PS05	PU NBR	25	-30 / +105 -25 / +100	1
	T-PS08	PU-57D/NBR PTFE/NBR	600	-25 / +100	5 15
	T-PS08A	PU/NBR PU-57D/NBR	250 400	-25 / +100	1 5
	T-PS08B	PU-57D/NBR PTFE/NBR	600	-25 / +100	5 10

* The temperature can change choosing different materials according to working conditions.

Profiles

Piston seals

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-PS08C	PTFE/NBR	400	-25 / +100	2
	T-PS08D	PTFE/NBR	400	-25 / +100	3
	T-PS08E	PU-57D/NBR PTFE/NBR	600	-25 / +100	5 10
	T-PS08F	PU/NBR PU-57D/NBR	250 400	-25 / +100	1 5
	T-PS81	PU-57D/NBR PTFE/NBR	600	-25 / +100	5 10
	T-PS81B	PU-57D/NBR PTFE/NBR	600	-25 / +100	5 10
	T-PS09	PU/NBR/POM	400	-25 / +100	0,5
	T-PS09A	PTFE/NBR/POM	400	-25 / +100	1
	T-PS16	PU NBR	160	-30 / +105 -25 / +100	0,5
	T-PS16A	PU NBR	160	-30 / +105 -25 / +100	0,5
	T-PS17	PU/POM NBR/POM	400 250	-25 / +100	0,5
	T-PS17A	PU/POM NBR/POM	400 250	-25 / +100	0,5

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-PS17B	PU/POM NBR/POM	400 250	-25 / +100	0,5
	T-PS19	PTFE-virgin / V-spring PTFE-filled / V-spring	200 400	-200 / +260	15
	T-PS19A	PTFE-virgin / V-spring PTFE-filled / V-spring	200 400	-200 / +260	2
	T-PS20	NBR/POM	700	-25 / +100	0,5
	T-PS23	PU/NBR/POM	400	-25 / +100	0,5
	T-PS35	PU	400	-30 / +105	0,4

* The temperature can change choosing different materials according to working conditions.

Profiles

Symmetric seals (for rod and piston)

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-PRS06	PU NBR	400 160	-30 / +105 -25 / +100	0,5
	T-PRS06A	PU NBR	300 160	-30 / +105 -25 / +100	0,5
	T-PRS06B	PU NBR	400 160	-30 / +105 -25 / +100	0,5
	T-PRS06C	PU NBR	400 160	-30 / +105 -25 / +100	0,3
	T-PRS06D	PU NBR	400 160	-30 / +105 -25 / +100	0,5
	T-PRS06E	PU NBR	400 160	-30 / +105 -25 / +100	0,5
	T-PRS07	PU/NBR	400	-25 / +100	0,5
	T-PRS10SP	PU FPM POM	-	-30 / +105 -20 / +210 -60 / +100	-
	T-PRS10-12	PU/POM NBR/POM	500 250	-30 / +100 -25 / +100	0,5
	T-PRS13-15	PU/POM NBR/POM	500 250	-30 / +100 -25 / +100	0,5
	T-PRS18	PU/NBR	400	-25 / +100	0,5

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-PRS19	PTFE-virgin / V-spring PTFE-filled / V-spring	200 400	-200 / +260	15
	T-PRS19B	PTFE-virgin/ Helicoil spring PTFE-filled/ Helicoil spring	200 400	-200 / +260	5
	T-PRS19C	PTFE-virgin/ Helicoil spring PTFE-filled/ Helicoil spring	200 400	-200 / +260	5
	T-PRS19D	PTFE-virgin/ Helicoil spring PTFE-filled/ Helicoil spring	200 400	-200 / +260	5
	T-PRS22	PU/POM NBR/POM FPM/PTFE	400 160 160	-30 / +100 -25 / +100 -20 / +210	0,5
	T-PRS25-27	PTFE-virgin PTFE-filled	100	-200 / +260	1,5
	T-PRS99	PU NBR FPM	400 160 160	-30 / +105 -25 / +100 -20 / +210	0,5

* The temperature can change choosing different materials according to working conditions.

Profiles

Back-up rings

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-BUR08	POM PTFE	-	-60 / +100 -200 / +260	-
	T-BUR09	POM PTFE	-	-60 / +100 -200 / +260	-
	T-BUR10	POM PTFE	-	-60 / +100 -200 / +260	-
	T-BUR11	POM PTFE	-	-60 / +100 -200 / +260	-
	T-BUR12	POM PTFE	-	-60 / +100 -200 / +260	-
	T-BUR13	POM PTFE	-	-60 / +100 -200 / +260	-

Guide rings

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-BWR01	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR01A	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR03	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR04	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR05	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR06	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR07	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR08	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR09	-	-	-	-

* The temperature can change choosing different materials according to working conditions.

Profiles

Rotary seals

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-OS01	PU/POM NBR/POM FPM/PTFE	0,5 0,5 0,5	-30 / +100 -25 / +100 -20 / +210	5 10 15
	T-OS02	PU/POM NBR/POM FPM/PTFE	0,5 0,5 0,5	-30 / +100 -25 / +100 -20 / +210	5 10 15
	T-OS03	PU NBR FPM	0,5 0,5 0,5	-30 / +100 -25 / +100 -20 / +210	5 10 15
	T-OS08	PU NBR	-	-30 / +105 -25 / +100	5 10
	T-OS08A	PU NBR	-	-30 / +105 -25 / +100	5 10
	T-R03	PU/POM NBR/POM	400 250	-30 / +100 -25 / +100	0,2 0,2
	T-R04	PU NBR	160 100	-30 / +105 -25 / +100	0,2 0,2
	T-R04A	PU NBR	160 100	-30 / +105 -25 / +100	0,2 0,2
	T-R05	PU NBR	160 100	-30 / +105 -25 / +100	0,2 0,2
	T-R05A	PU NBR	160 100	-30 / +105 -25 / +100	0,2 0,2

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-VR06	NBR	-	-25 / +100	25
	T-VR07	NBR	-	-25 / +100	25
	T-R08	PTFE/NBR	350	-25 / +100	0,4
	T-R08D	PTFE/NBR	350	-25 / +100	0,4
	T-R09	PTFE/NBR	350	-25 / +100	0,4
	T-R09A	PTFE/NBR	350	-25 / +100	0,4
	T-R10	PTFE/NBR	350	-25 / +100	0,4
	T-R10A	PTFE/NBR	350	-25 / +100	0,4
	T-R11	PTFE/NBR	350	-25 / +100	0,4
	T-R11D	PTFE/NBR	350	-25 / +100	0,4

* The temperature can change choosing different materials according to working conditions.

Profiles

Static seals and O-Rings

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-FL01A	PU FPM EPDM	400 250 250	-30 / +105 -20 / +210 -50 / +130	-
	T-FL02B	PU FPM EPDM	400 250 250	-30 / +105 -20 / +210 -50 / +130	-
	T-FL03	PU NBR FPM	600 250 250	-30 / +105 -25 / +100 -20 / +210	-
	T-FL06	PTFE-virgin/ Helicoil spring PTFE-filled/ Helicoil spring	200 400	-60 / +200	0,1
	T-FL07	PTFE-virgin/ Helicoil spring PTFE-filled/ Helicoil spring	200 400	-60 / +200	0,1
	T-OR	PU NBR FPM	600 160 160	-30 / +105 -25 / +100 -20 / +210	-
	T-ORH	PU NBR FPM	600 160 160	-30 / +105 -25 / +100 -20 / +210	-
	T-ORV	PU NBR FPM	600 160 160	-30 / +105 -25 / +100 -20 / +210	-
	T-QR01	PU NBR FPM	600 160 160	-30 / +105 -25 / +100 -20 / +210	-
	T-QR02	PU NBR FPM	600 160 160	-30 / +105 -25 / +100 -20 / +210	-
	T-SS01	PU NBR FPM	600 250 250	-30 / +105 -25 / +100 -20 / +210	-

* The temperature can change choosing different materials according to working conditions.

Customized seals and machined parts

Profiles					

Profiles

Mining seals

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-P50	PU/POM	400 dyn. 1500 stat.	-30 / +100	0,5 0,2
	T-P50A	PU/POM	400 dyn. 1500 stat.	-30 / +100	0,5 0,2
	T-P51	PU/NBR/POM	400 dyn. 1500 stat.	-25 / +100	0,5 0,2
	T-P51A	PU/NBR/POM	400 dyn. 1500 stat.	-25 / +100	0,5 0,2
	T-P51G	PU/NBR/POM	400 dyn. 1500 stat.	-25 / +100	0,5 0,2
	T-P52	PU/POM	700 dyn. 1500 stat.	-30 / +100	0,5 0,2
	T-P53	PU/NBR/POM	700 dyn. 1500 stat.	-25 / +100	0,5 0,2
	T-P54	PU/NBR/POM	400 dyn. 1500 stat.	-25 / +100	0,5 0,2
	T-P54A	PU/NBR/POM	400 dyn. 1500 stat.	-25 / +100	0,5 0,2
	T-P55	PU/POM NBR/POM	700 dyn./ 1500 stat. 400 dyn./ 1500 stat.	-25 / +100	0,5/0,2 0,5/0,2
	T-R50	PU/NBR/POM	700	-25 / +100	0,5

Profile	Type	Standard material	Pressure (bar)	Temperature (°C) *	Speed (m/s)
	T-R50A	PU/NBR/POM	700	-25 / +100	0,5
	T-R51	PU/NBR	400	-25 / +100	0,5
	T-R52	PU/POM	700	-30 / +100	0,5
	T-R53	PU	400	-30 / +105	0,5
	T-W50	PU	-	-30 / +105	2
	T-W51	PU	-	-30 / +105	2
	T-W53	PU/POM	-	-30 / +80	2
	T-W54	PU	-	-30 / +105	2
	T-BWR01-P	POM PTFE	-	-60 / +100 -200 / +260	4
	T-BWR01-R	POM PTFE	-	-60 / +100 -200 / +260	4
	T-P58	PU	400	-30 / +105	0,3

* The temperature can change choosing different materials according to working conditions.

Materials

Color	Material	cod.	Temp. (°C) *	Hardness	Approved FDA	Main application and notes
	PU red	P	-30 / +125	95 °ShA	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Resistant against hydrolysis.
	PU light green	P1	-30 / +115	88 °ShA		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Application for pneumatic and low pressure
	PU orange	P2	-30 / +135	96 °ShA		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Application at elevated temperature.
	PU violet	P3	-30 / +115	95 °ShA	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Improved chemical resistance, suitable for CIP processes. Applicable for contact with foodstuff.
	PU light blue	X	-50 / +105	95 °ShA	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Application at low temperature.
	PU dark red	M	-30 / +125	96 °ShA		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Improved wear and friction properties for water hydraulics, and heavy duty applications with insufficient lubrication.
	PU blue	Q	-30 / +125	57 °ShD	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. High pressure and extrusion resistance.
	PU grey	Q2	-30 / +125	57 °ShD		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. High pressure and extrusion resistance. Improved wear and friction properties.
	PU	R	-20 / +115	95 °ShA	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. High abrasion resistance.
	PU	R2	-37 / +110	96 °ShA	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. High abrasion resistance.

POLYURETHANE *all polyuretane grades resistant to hydrolysis

Materials

Color	Material	cod.	Temp. (°C) *	Hardness	Approved FDA	Main application and notes	
	NBR	N	-25 / +100	85 °ShA		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water.	NBR
	NBR 95	A	-25 / +100	95 °ShA		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. High extrusion resistance.	NBR
	NBR FDA	F	-22 / +100	85 °ShA	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Applicable for contact with foodstuff.	NBR
	H-NBR	H	-25 / +150	85 °ShA		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Application for fluids at high temperature, cold water.	NBR
	FPM (viton)	V	-20 / +210	85 °ShA		U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Application for fluids at high temperature and aggressive.	FPM
	FPM FDA (viton)	V2	-25 / +210	85 °ShA	✓	U-rings, wiper rings and other seal elements. Mineral oil, compressed air, water. Application for fluids at high temperature and aggressive. Applicable for contact with foodstuff.	FPM
	EPDM	E	-50/+130	85 °ShA		U-rings, wiper rings and other seal elements. Hot water and steam, ozone diluite acids and alkaline solutions. NOT resistant against mineral oils.	EPDM
	EPDM FDA	Z	-50/+100	85 °ShA	✓	U-rings, wiper rings and other seal elements. Hot water and steam, ozone diluite acids and alkaline solutions. NOT resistant against mineral oils. Applicable for contact with foodstuff.	EPDM
	Silicone FDA	S	-55/+210	85 °ShA	✓	Flanges seals, gasket and other static seals. For dynamic application is NOT recommended. Applicable for contact with foodstuff.	SILICONE
	Silicone FDA	S2	-55/+210	85 °ShA	✓	Flanges seals, gasket and other static seals. For dynamic application is NOT recommended. Applicable for contact with foodstuff.	SILICONE

Materials

Color	Material	cod.	Temp. (°C) *	Hardness	Approved FDA	Main application and notes	
	AFLAS	I	-15/+210	85 °ShA		U-rings, wiper rings and other seal elements. Hot water and steam, brake fluids, sour oil and gas. High electrical isulation properties.	TFE/P
	PTFE-P FDA	T	-200/+260	55 °ShD	✓	Composite seals with elastomer preload elements, spring loaded seal, back-up and guide rings, low friction,exellent chemical resistance. Applicable for contact with foodstuff.	PTFE
	PTFE-40%	B	-200/+260	64 °ShD		Composite seals with elastomer preload elements, spring loaded seal, back-up and guide rings, low friction,exellent chemical resistance. Filled with 40% bronze for improved wear, low friction.	
	PTFE-60%	B6	-200/+260	67 °ShD		Composite seals with elastomer preload elements, spring loaded seal, back-up and guide rings, low friction,exellent chemical resistance. Filled with 60% bronze for improved wear, low friction.	
	PTFE-25%	C	-200/+260	64 °ShD		Composite seals with elastomer preload elements, spring loaded seal, back-up and guide rings, low friction,exellent chemical resistance. Filled with 25% carbon for improved wear, low friction.	
	PTFE-25%	G	-200/+260	55 °ShD		Composite seals with elastomer preload elements, spring loaded seal, back-up and guide rings, low friction,exellent chemical resistance. Filled with glass fibre/MoS2 for improved wear, low friction.	
	POM FDA	D	-50/+100	/	✓	Back-up and guide rings, machined parts. Very stable in wet and dry environments is also recommended for precision parts, where close tolerances are required.	PLASTICS
	PA FDA	Y	-30/+100	/	✓	Back-up and guide rings, machined parts.	
	PEEK	K	-50/+250	90 °ShD	✓	Composite seals with elastomer preload elements, spring loaded seal, back-up and guide rings, low friction, high precion parts.	
	UHMW-PE	U	-200/+80	63 °ShD		Composite seals with elastomer preload elements, spring loaded seal, back-up and guide rings, low friction.	