





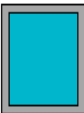
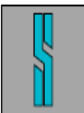


ARAD POLYMER SAMIN CO.pvt

















Specification of Sealing (Ring)

O-Rings		Sealing and Bearing Materials									Applications	Operating Range		
Type	Page No.	Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal	Pressure MPa	Temperature °C	Velocity m/s
O-Ring  general purpose	18		●					●	●			200 MPa	-60 °C +200 °C	0.5 m/s
FEP O-Ring  chemical industry aggressive media	18							●		●		25 MPa	-60 °C +200 °C	—
PTFE O-Ring  chemical industry aggressive media	18						●					40 MPa	-200 °C +260 °C	—
Isolast® Perfluoroelastomer O-Ring  chemical industry aggressive media	19							●				200 MPa	-25 °C +325 °C	—



































Static Seals		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Zurcon® Dualseal	20		•									☼ D	50 MPa	-35 °C +110 °C	—
 mobile hydraulics twist-free															
QUAD-RING® Seal	20							•				↕☼ ↻D ↻ ↻	40 MPa	-30 °C +200 °C	up to 2 m/s
 general purpose twist-free (4 lips) © Trade Mark of Quadion Corporation															
Kantseal	20							•				☼ D	50 MPa	-30 °C +200 °C	—
 general purpose for flanges axial static															
Back-up Ring	21	•				•	•	•	•	•		↕☼ 	80 MPa	-200 °C +260 °C	0.5 m/s
 general purpose for O-Ring and QUAD-RING® Seal															



KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting = **S** Double acting = **D**

B




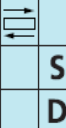

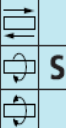

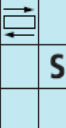

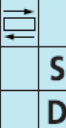


Static Seals		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Back-up Ring (concave)	21												250 MPa	-200 °C +260 °C	0.5 m/s
general purpose for O-Ring very high pressure		•				•	•	•	•	•					
Wills Rings® O	21												1000 MPa	up to +850 °C	—
general purpose sealing for extreme conditions flange applications											•				
Wills Rings® C	22												200 MPa	up to +750 °C	—
general purpose sealing for extreme conditions flange applications											•				
Turcon® Variseal® H	22												80 MPa	-120 °C +260 °C	—
chemical industry gasket fittings gas sealing		•	•												
Turcon® Variseal® HF	22												80 MPa	-200 °C +260 °C	—
chemical industry flange fittings gas sealing		•	•												
Zurcon® SAE Flange Seal	23												42 MPa	-35 °C +110 °C	—
mobile hydraulics general mech. applications			•					•							
Bonded Seal	23												100 MPa	-30 °C +200 °C	—
general purpose general machine operation automotive Industry								•			•				
Airseal	23												1 MPa	-50 °C +220 °C	—
chemical industry general mech. applications								•							

C







Fluid Sealing Systems – Piston Seals		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Turcon® Glyd Ring®	24											 	80 MPa	-45 °C +200 °C	15 m/s
 hydraulics gen. machine operation machine tools mobile hydraulics		•	•												
Turcon® Glyd Ring® T	24											 	80 MPa	-45 °C +200 °C	15 m/s
 hydraulics gen. machine operation machine tools mobile hydraulics		•	•												
Zurcon® Glyd Ring® P	24											  	80 MPa	-40 °C +140 °C	1 m/s
 mobile hydraulics construction machinery			•												
Turcon® Double Delta®	25											 	35 MPa	-45 °C +200 °C	15 m/s
 hydraulics light hydraulics medium hydraulics		•	•												
Turcon® AQ Seal®	25											  	40 MPa	-45 °C +200 °C	2 m/s
 hydraulics medium operation piston accumulator		•	•					•							
Turcon® AQ Seal® 5	25											  	60 MPa	-45 °C +200 °C	3 m/s
 hydraulics		•	•					•							
Turcon® Stepseal® 2K	26											 	80 MPa	-45 °C +200 °C	15 m/s
 hydraulics machine operation machine tools mobile hydraulics		•	•												
Zurcon® Wynseal	26											  	40 MPa	-35 °C +110 °C	0.8 m/s
 hydraulics light hydraulics medium duty			•												
Zurcon® U-Cup	26											 	40 MPa	-35 °C +110 °C	0.5 m/s
 fluid power hydraulic cylinders general maintenance			•												
D-A-S Compact Seal®, DBM Compact Seal	27											 	35 MPa	-35 °C +100 °C	0.5 m/s
 hydraulics standard cylinder light to medium duty		•				•		•		•					

KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting =  Double acting = 

D









































Fluid Sealing Systems – Piston Seals		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
PHD / CST Seal	27												40 MPa	-45°C +135°C	1.5 m/s
 hydraulics mobile hydraulics construction machinery		•	•				•					 D			
Turcon® Variseal® M2	27												45 MPa	-70°C +260°C	15 m/s
 hydraulics chemical industry aggressive media		•	•									 S D			
Turcon® VL Seal™	28												80 MPa	-45°C +200°C	15 m/s
 hydraulics machine operation machine tools mobile hydraulics		•	•									 S			
VEEPAC	28												40 MPa	-30°C +200°C	0.5 m/s
 hydraulic cylinders machine presses mining steel mills water management								•				 S			
Turcon® Skirted Piston	28												15 MPa	-40°C +150°C	4 m/s
 automotive industry shock absorbers		•										 S D			
Selemaster DSM	29												70 MPa	-40°C +130°C	0.5 m/s
 hydraulic cylinders machine presses mining steel mills water management								•				 D			

E









































Fluid Sealing Systems – Rod Seals		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Type	Page No.														
Turcon® Stepseal® 2K	30											 	80 MPa	-45 °C +200 °C	15 m/s
 hydraulics general machine operation machine tools mobile hydraulics		●	●												
Zurcon® Rimseal	30											 	25 MPa	-30 °C +100 °C	5 m/s
 hydraulics general machine operation machine tools mobile hydraulics		●													

KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting =  Double acting = 





G




Fluid Sealing Systems – Rod Seals		Sealing and Bearing Materials									Applications	Operating Range		
Type	Page No.	Turcon®	Zurcon®	Turcite®	Orkot®	HMMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric		Pressure MPa	Temperature °C	Velocity m/s
Zurcon® U-Cup  hydraulics standard cylinders	30		●								  	40 MPa	-35 °C +110 °C	0.5 m/s
Balsele  hydraulic cylinders machine presses mobile plant	31							●			  	40 MPa	-30 °C +130 °C	0.5 m/s
Zurcon® L-Cup®  hydraulics standard cylinder	31		●								  	40 MPa	-35 °C +110 °C	0.5 m/s
Turcon® Variseal® M2  hydraulics chemical industry gen. mech. applications aggressive media foodstuffs	31		●	●							  	45 MPa	-70 °C +260 °C	15 m/s
Turcon® Variseal® W  chemical industry gen. mech. applications	32		●	●							  	45 MPa	-70 °C +260 °C	15 m/s
Turcon® VL Seal™  hydraulics gen. machine operation machine tools mobile hydraulics	32		●	●							  	80 MPa	-45 °C +200 °C	15 m/s
Turcon® Glyd Ring®  hydraulics gen. machine operation machine tools mobile hydraulics	32		●	●							  	80 MPa	-45 °C +200 °C	15 m/s
Turcon® Glyd Ring® T  hydraulics gen. machine operation machine tools mobile hydraulics	33		●	●							  	80 MPa	-45 °C +200 °C	15 m/s
VEEPAC  hydraulic cylinders machine presses mining steel mills water management	33							●			  	40 MPa	-30 °C +200 °C	0.5 m/s
Selemaster SM  hydraulic cylinders machine presses mining steel mills water management	33							●			  	70 MPa	-40 °C +130 °C	0.5 m/s
































KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting =  Double acting = 

Fluid Sealing Systems – Scrapers		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HIMOD®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Turcon® Excluder® 2	34												—	-45 °C +200 °C	15 m/s
 hydraulics light hydraulics machine tools		•	•									   D	—	-45 °C +200 °C	15 m/s
Turcon® Excluder® 5	34												—	-45 °C +200 °C	15 m/s
 hydraulics medium hydraulics mobile hydraulics		•	•									   D	—	-45 °C +200 °C	15 m/s
Zurcon® Scraper DA22	34												—	-35 °C +100 °C	1 m/s
 hydraulics general purpose industrial hydraulics ISO 6195 housing		•										   D	—	-35 °C +100 °C	1 m/s
Zurcon® Scraper DA24	35												—	-35 °C +100 °C	up to 0.5 m/s
 hydraulics mobile hydraulics		•										   D	—	-35 °C +100 °C	up to 0.5 m/s
Scraper DA17	35												—	-30 °C +110 °C	1 m/s
 hydraulics general purpose								•				   D	—	-30 °C +110 °C	1 m/s
Scraper DA27	35												—	-30 °C +100 °C	1 m/s
 hydraulics industrial hydraulics presses								•				   D	—	-30 °C +100 °C	1 m/s
Zurcon® Scraper ASW	36												—	-35 °C +110 °C	1 m/s
 hydraulics general purpose		•										   S	—	-35 °C +110 °C	1 m/s
Scraper SA	36												—	-30 °C +110 °C	1 m/s
 hydraulics general purpose								•				   S	—	-30 °C +110 °C	1 m/s
Scraper WRM	36												—	-30 °C +110 °C	1 m/s
 hydraulics general purpose								•				   S	—	-30 °C +110 °C	1 m/s
Metal Scraper	37												—	-40 °C +120 °C	1 m/s
 hydraulics general purpose								•		•		   S	—	-40 °C +120 °C	1 m/s
































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
Fluid Sealing Systems – Scrapers		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Zurcon® Scraper WNE	37		●									 agricultural machinery mobile hydraulics	—	-35 °C +100 °C	1 m/s
Zurcon® Scraper WNV	37		●									 agricultural machinery mobile hydraulics ISO standard cylinders	—	-35 °C +100 °C	1 m/s
Scraper WRM/C, Zurcon® Scraper WRM/PC	38		●					●				 agricultural machinery mobile hydraulics general hydraulic cylinders	—	-30 °C +110 °C	1 m/s
Zurcon® Scraper SWP	38		●									 mobile hydraulics (construction machinery) link-pin sealing	—	-35 °C +100 °C	1 m/s





Fluid Sealing Systems – Wear Rings		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Dynamic Load N/mm²	Temperature °C	Velocity m/s
Turcite® Slydring®	39			●								 hydraulics general purpose standard cylinders	15 N/mm²	-60 °C +200 °C	15 m/s
HiMod® Slydring®	39					●						 hydraulics general purpose standard cylinders mobile hydraulics	75 N/mm²	-40 °C +130 °C	1 m/s
Orkot® Slydring®	39				●							 hydraulics general purpose standard cylinders mobile hydraulics	90 N/mm²	-60 °C +130 °C	1 m/s













Fluid Sealing Systems – Pneumatic		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Complete Pneumatic Piston	40							•				 	1.2 MPa	-30 °C +100 °C	1 m/s
 general purpose								•							
Pneumatic Piston Seal	40	•							•			  	1.6 MPa	-40 °C +85 °C	1 m/s
		•							•	•					
Pneumatic Rod Seal and Rod Seal - Scraper Combination	40	•						•	•			  	1.6 MPa	-40 °C +150 °C	up to 5 m/s
									•						
Pneumatic Scraper / Scraper for Guiding Units	41								•			 	—	-40 °C +80 °C	up to 4 m/s
		•							•						
Pneumatic Cushioning Seal	41	•							•			 	1.6 MPa	-40 °C +110 °C	1 m/s
									•						
Non-standard Pneumatic Seal	41								•			   	—	—	—
		•	•												
Pneumatic Glyd Ring® for Piston and Rod	42	•	•									 	1.6 MPa	-30 °C +200 °C	5 m/s
									•						
Pneumatic Static Seal DRV4	42								•			 	1.0 MPa	-10 °C +60 °C	—
													Operating Range		
													Dynamic Load N/mm ²	Temperature °C	Velocity m/s
Pneumatic Wear Ring for Pistons and Rods	42					•						  	40 N/mm ²	-40 °C +110 °C	1 m/s
						•									























KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting = **S** Double acting = **D**

Rotary Seals		Sealing and Bearing Materials										Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Radial Oil Seal 43	 general purpose general mech. applications							•				  	1 MPa	-40 °C +200 °C	30 m/s
Shaft Repair Kit 43											•		—	—	—
Sealing Cap 43								•			•		—	-40 °C +200 °C	—
Varilip® Radial Lip Shaft Seal 44	 general purpose general mech. applications chemical industry	•										 	2 MPa	-60 °C +200 °C	30 m/s
Varilip® PDR Radial Lip Shaft Seal 44	 general purpose general mech. applications compressors vacuum pumps gearboxes	•					•					  	1 MPa	-100 °C +260 °C	90 m/s
V-Ring® 44	 general purpose general mech. applications							•				 	—	-40 °C +200 °C	12 m/s
GAMMA Seal 45	 mobile hydraulics power transmission							•				 	—	-30 °C +200 °C	10 m/s
STEFA System 500/3000/5000 45	 Cassette Seals mobile hydraulics construction machinery							•			•	 	0.05 MPa	-30 °C +200 °C	15 m/s
Axial Shaft Seal 45	 general purpose for roller bearings							•				 	0.01 MPa	-40 °C +200 °C	30 m/s
Turcon® Roto Glyd Ring® 46	 hydraulics general purpose rotary applications	•										  	30 MPa	-45 °C +200 °C	2 m/s

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Rotary Seals		Sealing and Bearing Materials									Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric		Pressure MPa	Temperature °C	PV Limit
Type	Page No.													
Zurcon® Roto Glyd Ring® S  machine tools rotary connections oscillating movements	46		•								 D	40 MPa	-30 °C +200 °C	6.5 MPa · m/s
												Operating Range		
												Pressure MPa	Temperature °C	Velocity m/s
Turcon® Roto Variseal®  general mech. applications chemical industry	46	•									 S	15 MPa	-100 °C +260 °C	2 m/s

Linear Bearings & Bushings		Sealing and Bearing Materials									Applications	Operating Range		
		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric		Load N/mm²	Temperature °C	Velocity m/s
Type	Page No.													
Turcite®-B Slydway®  general mech. applications machine tools	47			•								9 N/mm²	up to +260 °C	1 m/s
Orkot®, Turcite® and HiMod® Bearings  general mech. applications	47			•	•	•					   	static 120 N/mm² dynamic 90 N/mm²	-60 °C +250 °C	6 m/s
Orkot® Marine Bearings  marine applications	47				•						   	static 120 N/mm² dynamic 90 N/mm²	-60 °C +130 °C	6 m/s

Custom-made Components	Page No.	Sealing and Bearing Materials										Applications	Operating Range		
Type		Turcon®	Zurcon®	Turcite®	Orkot®	HiMod®	PTFE	Elastomeric	Polyurethane	Other Polymeric	Metal		Pressure MPa	Temperature °C	Velocity m/s
Ventseal Light  batteries fuel reservoirs	48							•				 	—	-40 °C +200 °C	—
Custom-made Elastomeric Products 	48							•	•	•		     	—	up to +325 °C	—
Custom-made PTFE Components 	48						•					   	—	up to +260 °C	—
Ground Balls  check valves	49							•					—	-30 °C +200 °C	—
Custom-made HiMod® High Modulus Plastics 	49					•							—	up to +300 °C	—
Elastomer Diaphragms  pumps valves regulators and actuators	49							•				 	(not re-enforced) up to 0,05 MPa (re-enforced) 10 MPa	-50 °C +325 °C	—

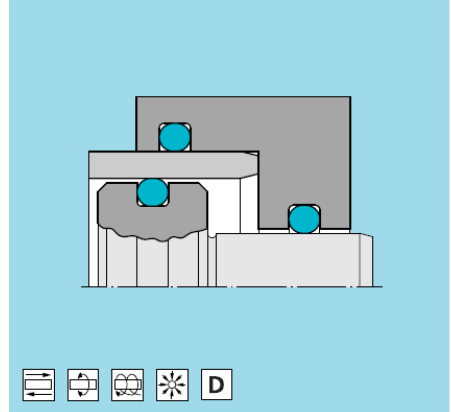
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O-Ring

Double acting seal for static and dynamic applications. Available in various materials e.g. nitrile (NBR), fluorocarbon (FKM), ethylene propylene (EPDM), chloroprene, silicon, fluorosilicone, etc. Polyurethane is available in hardness 70 to 93 Shore A for high wear and extrusion resistance with low friction. Available to ISO 3601, AS 568 B, BS 1806, BS 4518 and other recognized standards.

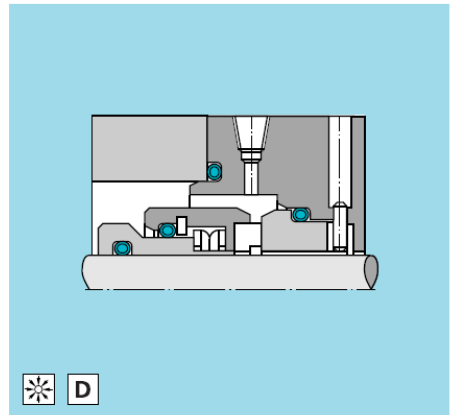
Ø Range	Pressure Range	Temperature Range	Velocity
from 0.5 mm	200 MPa	-60 °C +200 °C	0.5 m/s



FEP O-Ring

Encapsulated O-Ring is produced from silicon or fluorocarbon with a seamless FEP jacket. These seals can solve sealing problems due to their chemical resistance coupled with elastic properties and low friction. Available to ISO 3601, AS 568 B, BS 1806 and BS 4518 and other standards including hollow and square sections. Available in both inch and metric sizes.

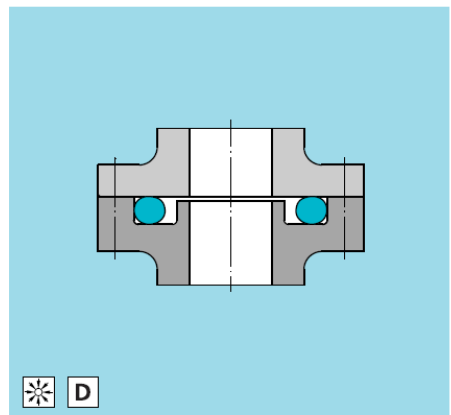
Ø Range	Pressure Range	Temperature Range	Velocity
from 7.7 mm	25 MPa	-60 °C +200 °C	—



PTFE O-Ring

For axial static face or flange type applications. Resistant to practically all chemicals and to high temperatures. Available in any desired size.

Ø Range	Pressure Range	Temperature Range	Velocity
0.5 – 1000 mm	40 MPa	-200 °C +260 °C	—



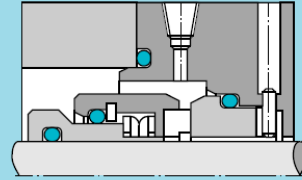
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Isolast® Perfluoroelastomer O-Ring

Isolast® is a perfluoroelastomer that combines the elastic properties of fluorocarbon (FKM) with the outstanding chemical resistance and the high temperature stability of PTFE. Isolast® seals can be used for applications in high temperature service up to appr. +325 °C. Isolast® O-Rings are available in metric and inch dimensions to ISO 3601, AS 568 B, BS 1806 and BS 4518, cords, foils, molded slabs and custom molded parts.

Ø Range	Pressure Range	Temperature Range	Velocity
from 0.8 mm	200 MPa	-25 °C +325 °C	—



D

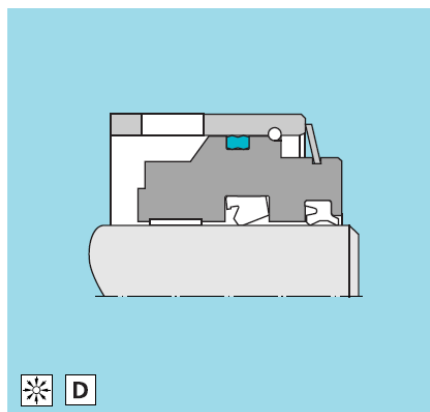
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Zurcon® Dualseal

Zurcon® Dualseal is a sealing element for static applications and a highly effective alternative to O-Ring / Back-up Ring combinations. The main advantages are resistance to twisting, stability at pulsating pressures and low contamination risk. Dualseal is easy to install and guarantees long service life. Recommended for heavy duty applications in cylinders and valves.

∅ Range	Pressure Range	Temperature Range	Velocity
6 – 280 mm	50 MPa	-35 °C +110 °C	—

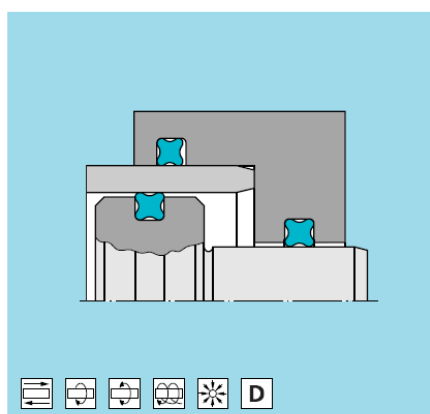


QUAD-RING® Seal

A double acting four lip seal for static and dynamic applications. Available in a wide range of elastomer compounds based on AS 568 B and BS 1806 standards. Provides higher seal efficiency and lower friction than conventional O-Rings.

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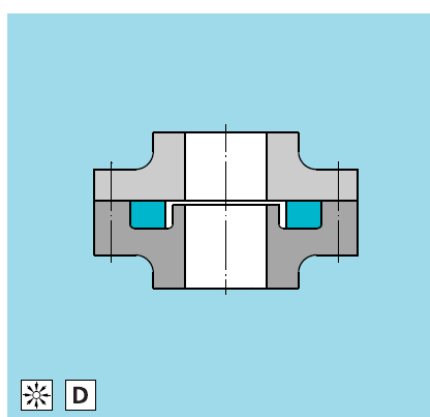
∅ Range	Pressure Range	Temperature Range	Velocity
1 – 660 mm	40 MPa	-30 °C +200 °C	0,5 m/s (up to 2 m/s rotary)



Kantseal

Elastomeric square sectioned ring for static applications. Mostly used on flanges (SAE) and covers. High sealing efficiency and shape stability. Available in nitrile (NBR) and fluorocarbon (FKM).

∅ Range	Pressure Range	Temperature Range	Velocity
5 – 456 mm	50 MPa	-30 °C +200 °C	—



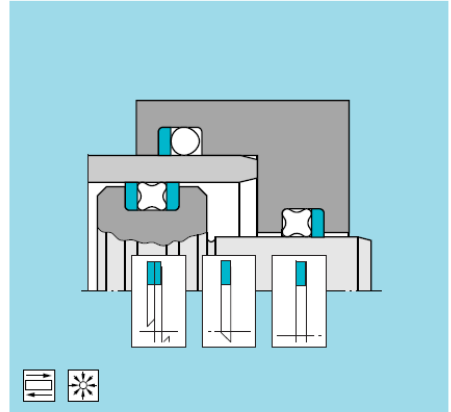
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Back-up Ring

Installed together with O-Rings and QUAD-RING® Seals to prevent gap extrusion in applications above appr. 5 MPa. Available in spiral, cut or uncut designs in filled or unfilled PTFE, Turcon®, elastomeric and thermoplastics based on ISO 3601, AS 568 B, BS 1806 and BS 4518.

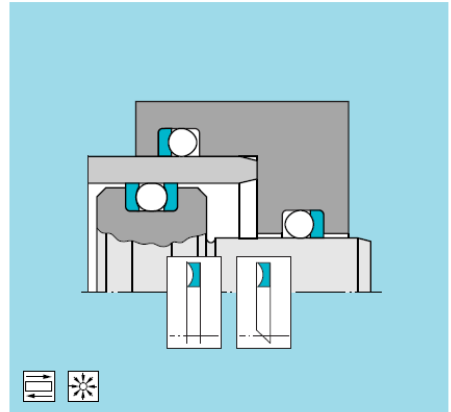
∅ Range	Pressure Range	Temperature Range	Velocity
from 2.9 mm	80 MPa	-200 °C +260 °C	0.5 m/s



Back-up Ring (concave)

The back-up ring is machined concave on one side to better accommodate the O-Ring and retains shape under high pulsating pressure. Available in cut or uncut designs in PTFE, Turcon® and polymeric materials based on ISO 3601, AS 568 B, BS 1806 and BS 4518.

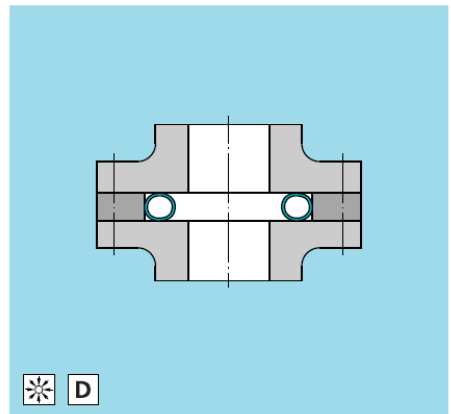
∅ Range	Pressure Range	Temperature Range	Velocity
from 2.4 mm	250 MPa	-200 °C +260 °C	0.5 m/s



Wills Rings® O

Wills Rings® O are metal O-Rings for many static face sealing applications. Reliable performance over a large temperature range for gases and liquids. Extreme high pressures and vacuums can be sealed with Wills Rings® O. Long life and excellent corrosion resistance are also characteristics of the Wills Rings® O seals. Available as pressure filled, pressure actuated, non-pressurized and solid seals, in mild and stainless steel, copper and Inconel® 600 materials. The seals can be plated in silver or nickel, or PTFE coated.

∅ Range	Pressure Range	Temperature Range	Velocity
8 – 3000 mm	1000 MPa	up to +850 °C	—



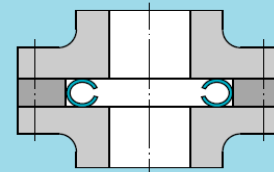
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Wills Rings® C

Wills Rings® C are metal C-Rings used for almost any static face sealing application. Reliable performance over a large temperature range for liquids. Extreme high pressures and vacuums can also be sealed. Wills Rings® C exhibits greater springback / elasticity than Wills Rings® O. This characteristic provides more effective sealing where thermal expansions of the seal housing are found. Wills Rings® C is available for internal and external seal housing. Available in Inconel® 718 and X750. The seals can be plated in silver or nickel, or PTFE coated.

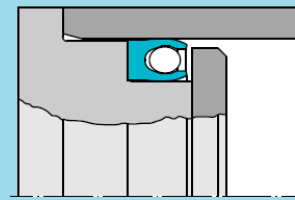
Ø Range	Pressure Range	Temperature Range	Velocity
20 – 500mm	200 MPa	up to +750 °C	—



Turcon® Variseal® H

Single acting sealing element comprising a U-shaped Turcon® ring and a coiled stainless energizing spring. High specific sealing force. Gas tight even at low temperatures. Resistant to most liquids and chemicals. Unlimited shelf life. Used for radially static or slightly dynamic applications. Available in versions for cryogenic service.

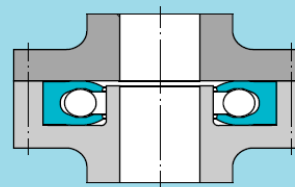
Ø Range	Pressure Range	Temperature Range	Velocity
3 – 2500mm	80 MPa	-120 °C +260 °C	—



Turcon® Variseal® HF

Single acting face sealing element comprising a U-shaped Turcon® ring and a coiled stainless energizing spring. High specific sealing force. Gas tight even at low temperatures. Resistant to most liquids and chemicals. Unlimited shelf life. Available for inside or outside sealing. Available in versions for cryogenic service.

Ø Range	Pressure Range	Temperature Range	Velocity
3 – 2500mm	80 MPa	-200 °C +260 °C	—



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Zurcon® SAE Flange Seal

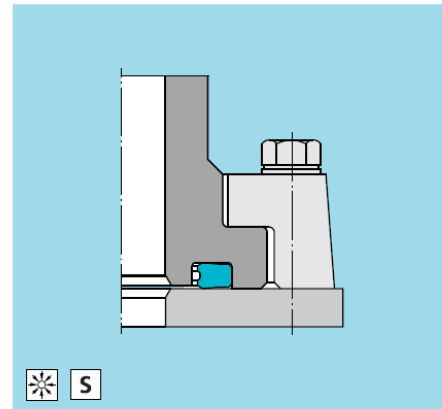
SAE Flange Seals corresponding to SAE J 518 are available in three different variants:

- O-Rings
- Rectangle Seals series DRV2
- Zurcon® SAE-Seals series DRV3

All SAE Flange Seals provide a high function security and can easily be mounted and dismantled.

SAE Flange Seals are especially used in mobile hydraulics, press manufacture and also for materials-handling technology and many more.

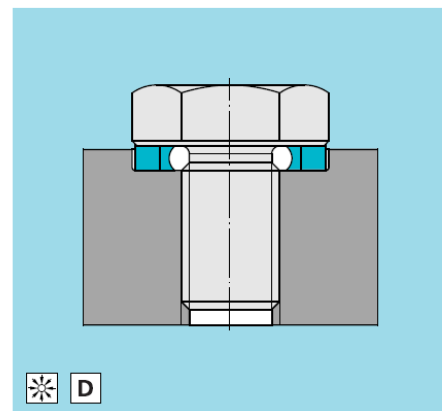
Ø Range	Pressure Range	Temperature Range	Velocity
15 – 50 mm	42 MPa	-35°C +110°C	—



Bonded Seal

Sealing discs to seal threads and flange joints. The discs consist of a metallic ring and a rubber sealing pad. Available in metric and inch dimensions.

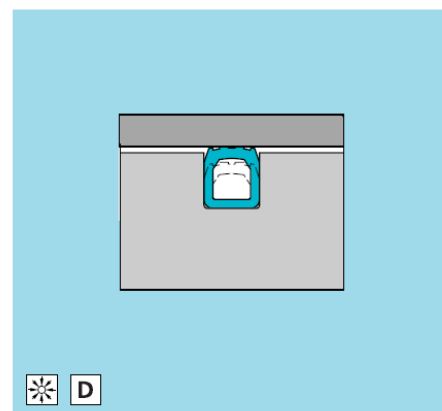
Ø Range (Thread)	Pressure Range	Temperature Range	Velocity
M2.5 – M 125	100 MPa	-30°C +200°C	—



Airseal

Airseal is an inflatable seal, vulcanized to any customer profile. Being activated by air, water or other medium, this seal represents an economic alternative to conventional gaskets. The big range of profiles and compounds allows use in various applications, e.g. for doors, lock of autoclaves, sterilizers, in the chemical and semiconductor industry etc.

Ø Range	Pressure Range	Temperature Range	Velocity
50 – 4000 mm	1 MPa	-50°C +220°C	—



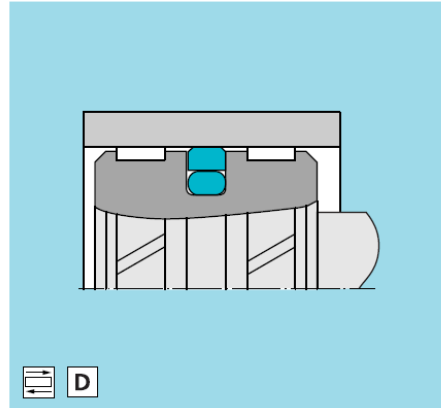
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Turcon® Glyd Ring®

Turcon® Glyd Ring® is a double acting O-Ring energized piston seal for dynamic applications. Turcon® Glyd Ring® provides low friction with no stick-slip, minimal break out force and high wear resistance. Main application: actuator cylinders.

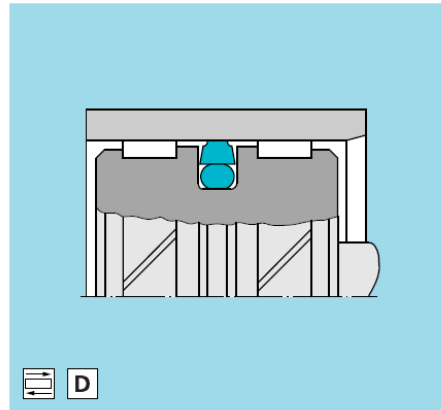
Ø Range	Pressure Range	Temperature Range	Velocity
8 – 2700 mm	80 MPa	-45 °C +200 °C	15 m/s



Turcon® Glyd Ring® T

A further development of the Turcon® Glyd Ring® with newly developed profile. It provides improved leakage control and better resistance to extrusion. Double acting O-Ring energized piston seal for dynamic applications. Installed in grooves to ISO 7425. Low friction with no stick-slip, minimal break out force and high wear resistance.

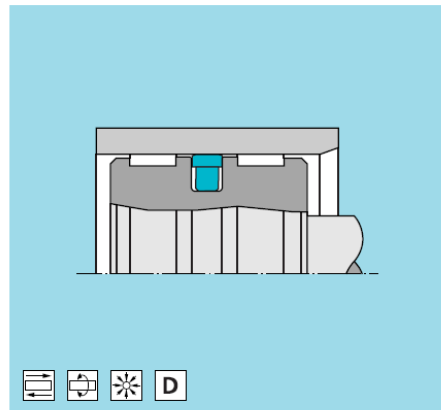
Ø Range	Pressure Range	Temperature Range	Velocity
8 – 2700 mm	80 MPa	-45 °C +200 °C	15 m/s



Zurcon® Glyd Ring® P

The double-acting Zurcon® Glyd Ring® P is a combination of a Zurcon® based material slipper seal with a step cut and an energizing rectangular elastomeric ring. Due to the Zurcon® high strength plastic material, two times bigger extrusion gaps are possible compared with Turcon® materials. The step cut in the ring is necessary for installation in closed grooves and for the flexibility of the seal ring due to the high stiffness of the material.

Ø Range	Pressure Range	Temperature Range	Velocity
45 – 190 mm	80 MPa	-40 °C +140 °C	1 m/s



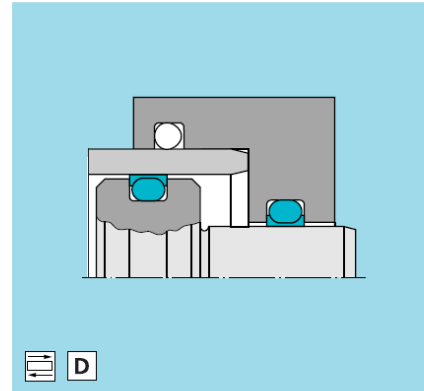
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Turcon® Double Delta®

The Turcon® Double Delta® is a double-acting sealing element which is energized by an elastomer O-Ring. The Turcon® Double Delta® seal can be fitted in existing O-Ring grooves (US standard AS 568 A, MIL-P-5514) and demonstrates good friction properties, stick-slip-free starting and excellent dry-running. The Turcon® Double Delta® is used in light and medium-duty industrial hydraulics.

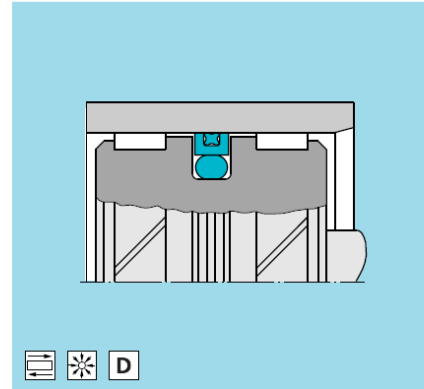
Ø Range	Pressure Range	Temperature Range	Velocity
4 – 2700 mm	35 MPa	-45 °C +200 °C	15 m/s



Turcon® AQ Seal®

A double acting O-Ring energized seal developed for sealing between two media, e.g. fluid/gas separation by incorporating a limited footprint QUAD-RING® Seal inset into the dynamic sealing face. Installed in grooves to ISO 7425.

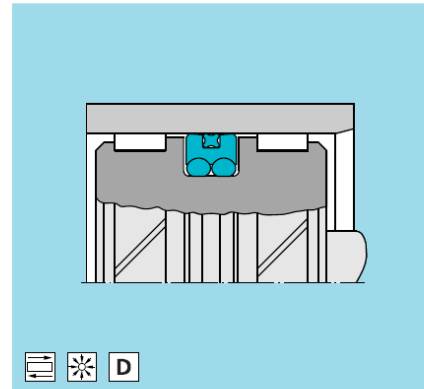
Ø Range	Pressure Range	Temperature Range	Velocity
16 – 700 mm	40 MPa	-45 °C +200 °C	2 m/s



Turcon® AQ Seal® 5

A further development of the standard Turcon® AQ Seal® double acting. QUAD-RING® Seal elastomer or polyurethane "Beaseal" in the dynamic sealing face. Energized by two O-Rings to improve sealing behavior.

Ø Range	Pressure Range	Temperature Range	Velocity
40 – 700 mm	60 MPa	-45 °C +200 °C	3 m/s



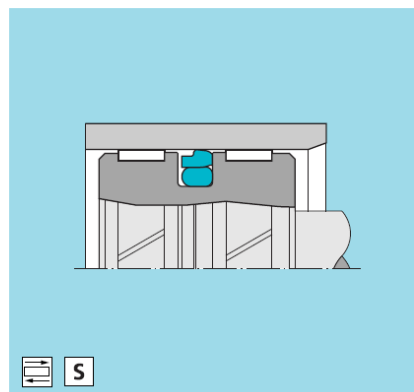
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Turcon® Stepseal® 2K

Single acting O-Ring energized piston seal for dynamic applications. Installed in closed grooves including grooves to ISO 7425. High sealing efficiency, low friction with no stick-slip, minimal break out force and high wear resistance.

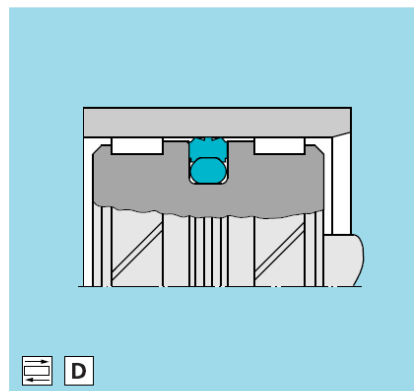
Ø Range	Pressure Range	Temperature Range	Velocity
8 – 2700mm	80 MPa	-45 °C +200 °C	15 m/s



Zurcon® Wynseal

A double acting O-Ring energized piston seal in injection molded polyurethane for dynamic applications. Installed in grooves to ISO 7425. High sealing efficiency, tear and abrasion resistant.

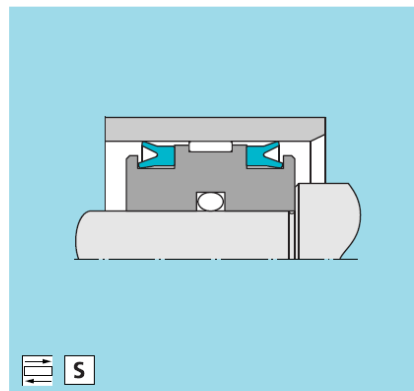
Ø Range	Pressure Range	Temperature Range	Velocity
16 – 250mm	40 MPa	-35 °C +110 °C	0.8 m/s



Zurcon® U-Cup

Zurcon® U-Cups are single acting polyurethane piston seals available in a wide range of sizes. Zurcon® U-Cups are assembled into closed grooves and mainly used in light duty cylinder applications for mobile equipment.

Ø Range	Pressure Range	Temperature Range	Velocity
5 – 390mm	40 MPa	-35 °C +110 °C	0.5 m/s



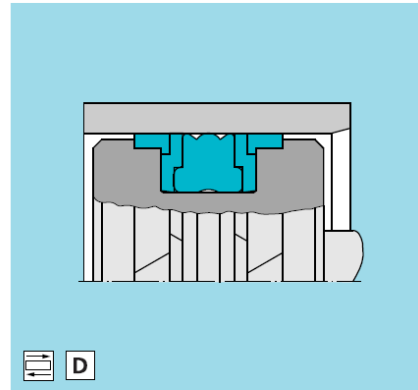
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



D-A-S Compact Seal®, DBM Compact Seal

Double acting compact piston seal assemblies consisting of an elastomeric piston seal, two thermoelastomeric back-up rings and two thermoplastic wear rings. Installed in closed grooves including grooves to ISO 6547.

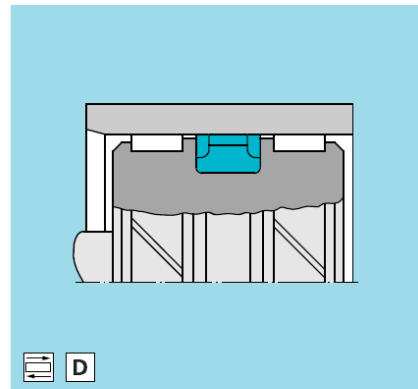
Ø Range	Pressure Range	Temperature Range	Velocity
20 – 250 mm	35 MPa	-35 °C +100 °C	0.5 m/s



PHD / CST Seal

Heavy duty compact double acting piston seal, the PHD Seal is an elastomer energized PTFE assembly affording overall stability, wear resistance, sealability, low friction and maintenance-free long life. HiMod® back-up rings are specially designed to protect the seal ring from extrusion, even in the most demanding applications. Available in metric and inch sizes.

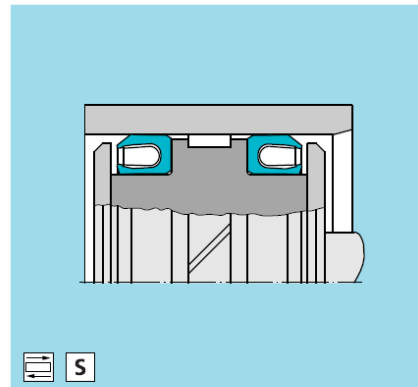
Ø Range	Pressure Range	Temperature Range	Velocity
50 – 180 mm	40 MPa	-45 °C +135 °C	1.5 m/s



Turcon® Variseal® M2

Single acting sealing element comprising a U-shaped Turcon® ring and stainless energizing finger spring. Low friction with no stick-slip, minimal break out force and high wear resistance. Resistant to most liquids and chemicals. Unlimited shelf life.

Ø Range	Pressure Range	Temperature Range	Velocity
6 – 2500 mm	45 MPa	-70 °C +260 °C	15 m/s



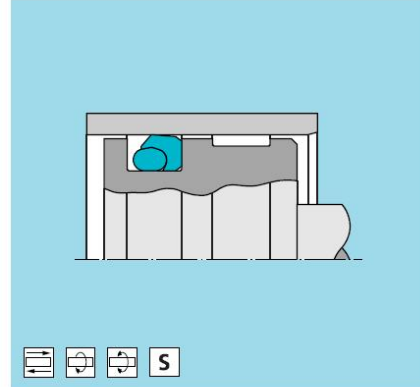
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Turcon® VL Seal™

A single acting L-shaped Turcon® seal with an elastic energizer for dynamic applications. The design provides low friction, no stick-slip effect, high wear resistance and features the Turcon® Stepseal® back pumping effect. Available in Turcon® and Zurcon® materials. Installed in standard O-Ring groove.

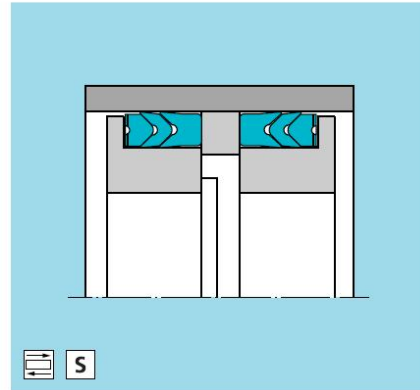
Ø Range	Pressure Range	Temperature Range	Velocity
10 – 2700 mm	80 MPa	-45 °C +200 °C	15 m/s



VEEPAC

VEEPAC is an assembly of fabric re-enforced, highly wear resistant, chevron sealing rings with a support ring and a pressure energizing ring. VEEPAC seals are designed with preloaded radial lips to provide good sealing results. They are very robust, insensitive to sealing surface finish and dimensionally adjustable. VEEPAC seals are especially suited to applications where there is a risk of damage and contamination.

Ø Range	Pressure Range	Temperature Range	Velocity
20 – 1000 mm	40 MPa	-30 °C +200 °C	0.5 m/s



Turcon® Skirted Piston

The Skirted Piston is a continuous PTFE sleeve, bonded around the piston and acting as seal and guide. The Skirted Piston has an integrated unidirectional sealing lip to minimize piston length. A special design with two sealing lips is also available. Minimum order quantity: 10,000 pieces. Recommended for fast moving, low friction applications, i.e. shock absorbers or small cylinders without positioning function requirement.

Ø Range	Pressure Range	Temperature Range	Velocity
—	15 MPa	-40 °C +150 °C	4 m/s



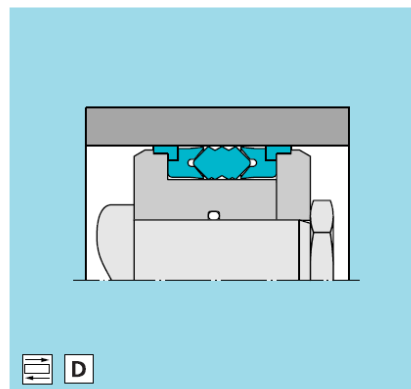
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**







Selemaster DSM

Double acting compact piston seal with integrated back-up and guide rings. The multi-lip elastomer seal element is backed on both sides with fiber re-enforced profile rings. Recommended for high pressure applications and where vibration occurs.

Ø Range	Pressure Range	Temperature Range	Velocity
45 – 360 mm	70 MPa	-40 °C +130 °C	0.5 m/s



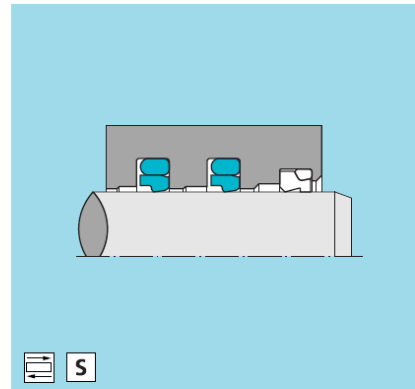
KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting = **S** Double acting = **D**



Turcon® Stepseal® 2K

Single acting O-Ring energized rod seal for dynamic applications. Installed in closed grooves including grooves to ISO 7425. High sealing efficiency, low friction with no stick-slip, minimal break out force and high wear resistance. Optimum sealing characteristics are achieved by installing in a tandem Stepseal® or Rimseal arrangement together with a double acting scraper. Available in Turcon® or Zurcon® materials.

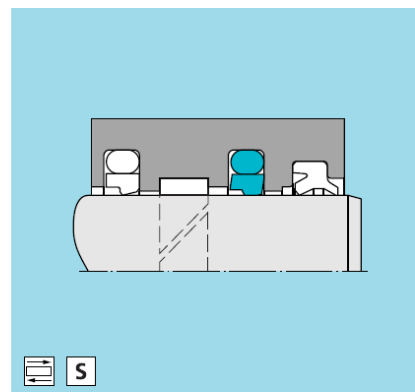
Ø Range	Pressure Range	Temperature Range	Velocity
3 – 2600mm	80 MPa	-45 °C +200 °C	15 m/s



Zurcon® Rimseal

Zurcon® Rimseal is a single acting rod seal energized by an elastomeric O-Ring. The geometry produces a pressure characteristic similar to that of the Turcon® Stepseal® 2K and thus high static and dynamic tightness. The installation spaces are identical to those used for the Turcon® Stepseal® 2K, making the Zurcon® Rimseal an ideal secondary system element. The main application fields are rod seals with redundant sealing systems and double wipers, i.e. in mobile hydraulics, in machine tools and injection molding machines and in general machine construction.

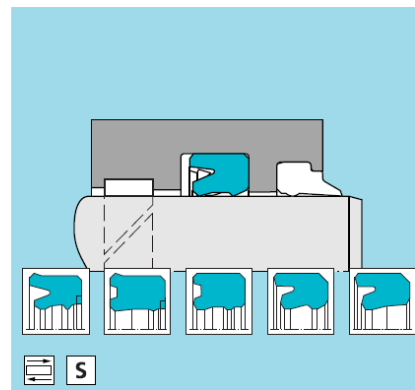
Ø Range	Pressure Range	Temperature Range	Velocity
8 – 2200mm	25 MPa (in tandem)	-30 °C +100 °C	5 m/s (in tandem)



Zurcon® U-Cup

Single acting sealing element. Available with or without secondary sealing lip for sealing dynamically loaded rods and plungers. Installed in closed grooves including grooves to ISO 5597. High sealing effect, abrasion resistant.

Ø Range	Pressure Range	Temperature Range	Velocity
6 – 300mm	40 MPa	-35 °C +110 °C	0.5 m/s



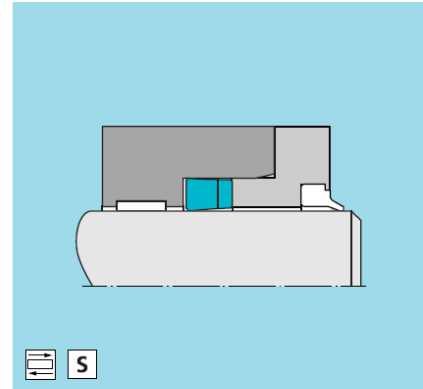
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Balsele

Single acting compact seal comprising an elastomer sealing lip, supported by a fiber re-enforced back with optional integrated plastic back-up ring for high pressure applications. Recommended for use in standard hydraulic cylinders, presses and mobile hydraulics.

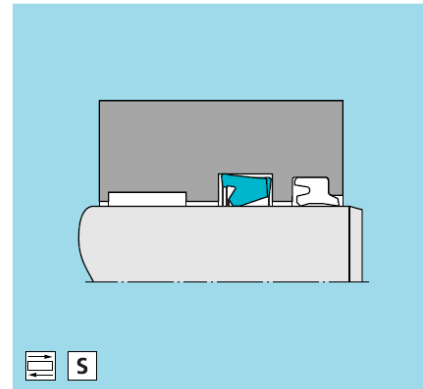
Ø Range	Pressure Range	Temperature Range	Velocity
10 – 1200 mm	40 MPa	-30 °C +130 °C	0.5 m/s



Zurcon® L-Cup®

New single acting rod seal. The Zurcon® L-Cup® is both an alternative to the U-Cup and a highly effective new sealing system component offering optimized sealing performance and extended service life. Exceptionally low friction. High wear resistance. Backpumping ability. High static and dynamic tightness.

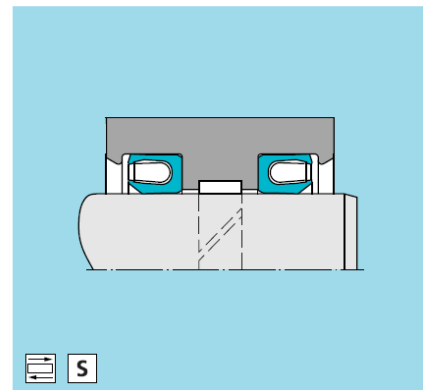
Ø Range	Pressure Range	Temperature Range	Velocity
8 – 270 mm	40 MPa	-35 °C +110 °C	0.5 m/s



Turcon® Variseal® M2

Single acting sealing element comprising a U-shaped Turcon® ring and stainless energizing finger spring. Low friction with no stick-slip, minimal break out force and high wear resistance. Resistant to most liquids and chemicals. Unlimited shelf life.

Ø Range	Pressure Range	Temperature Range	Velocity
6 – 2600 mm	45 MPa	-70 °C +260 °C	15 m/s



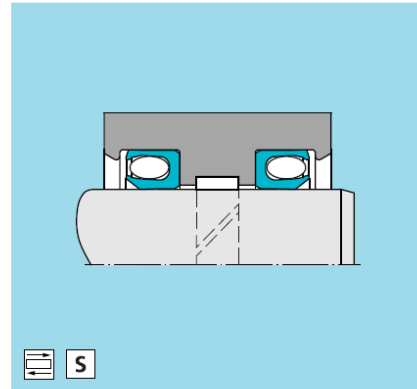
KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting = **S** Double acting = **D**



Turcon® Variseal® W

The Turcon® Variseal® W is a single acting rod seal energized by a special helical spring. The advantage of the Variseal® W lies in its low friction and relatively constant preloading force over a relatively large deformation range. The Variseal® W is used wherever friction has to be kept within a narrow tolerance zone, e.g. in pressure switches.

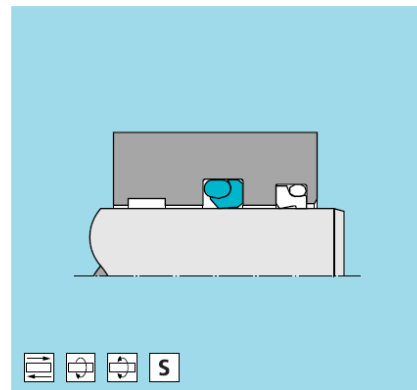
∅ Range	Pressure Range	Temperature Range	Velocity
6 – 2500 mm	45 MPa	-70 °C +260 °C	15 m/s



Turcon® VL Seal™

A single acting L-shaped Turcon® seal with an elastic energizer for dynamic applications. The design provides low friction, no stick-slip effect, high wear resistance and features the Turcon® Stepseal® back pumping effect. Available in Turcon® and Zurcon® materials. Installed in standard O-Ring groove.

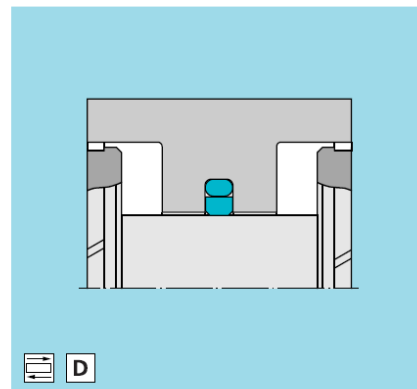
∅ Range	Pressure Range	Temperature Range	Velocity
6 – 2600 mm	80 MPa	-45 °C +200 °C	15 m/s



Turcon® Glyd Ring®

Turcon® Glyd Ring® is a double acting O-Ring energized rod seal for dynamic applications. It provides low friction with no stick-slip, minimal break out force and high wear resistance.

∅ Range	Pressure Range	Temperature Range	Velocity
3 – 2600 mm	80 MPa	-45 °C +200 °C	15 m/s



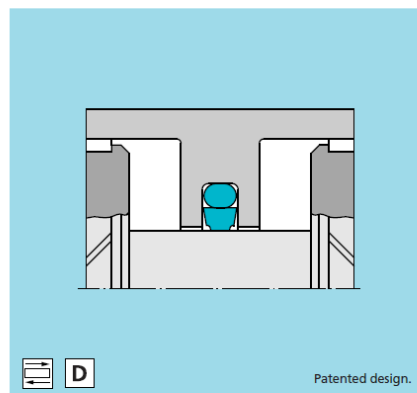
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Turcon® Glyd Ring® T

A further development of the Turcon® Glyd Ring® with newly developed profile. It provides improved leakage control and better resistance to extrusion. Double acting O-Ring energized rod seal for dynamic applications. Installed in grooves to ISO 7425. Low friction with no stick-slip, minimal break out force and high wear resistance.

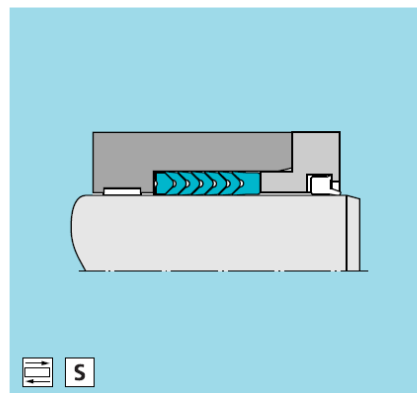
Ø Range	Pressure Range	Temperature Range	Velocity
3 – 2600 mm	80 MPa	-45°C +200°C	15 m/s



VEEPAC

VEEPAC is an assembly of fabric re-enforced, highly wear resistant, chevron sealing rings with a support ring and a pressure energizing ring. VEEPAC seals are designed with preloaded radial lips to provide good sealing results. They are very robust, insensitive to sealing surface finish and dimensionally adjustable. VEEPAC seals are especially suited to applications where there is a risk of damage and contamination.

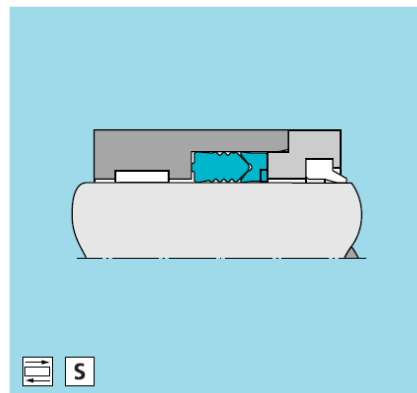
Ø Range	Pressure Range	Temperature Range	Velocity
20 – 1000 mm	40 MPa	-30°C +200°C	0.5 m/s



Selemaster SM

Compact rod seal designed for VEEPAC grooves and high pressure applications. The multi-lip elastomer sealing element is supported by a fiber re-enforced back with an integrated back-up ring.

Ø Range	Pressure Range	Temperature Range	Velocity
15 – 335 mm	70 MPa	-40°C +130°C	0.5 m/s



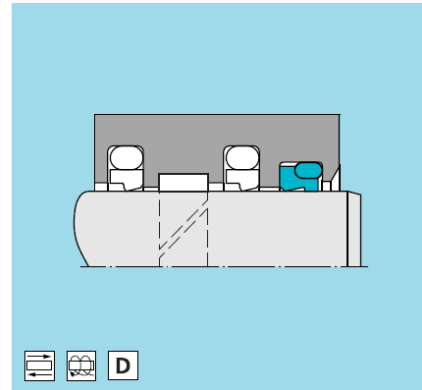
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Turcon® Excluder® 2

Double acting O-Ring energized scraper which also prevents the ingress of mud or other contaminants to increase effective system service life. Secondary sealing capability for use with back pumping performance seals e.g. Turcon® Stepseal® 2K and Zurcon® Rimseal.

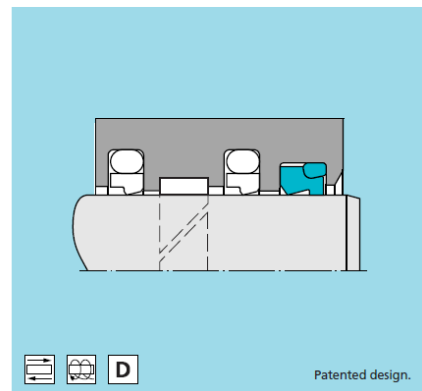
Ø Range	Temperature Range	Velocity
6 – 2600 mm	-45 °C +200 °C	15 m/s



Turcon® Excluder® 5

Double acting O-Ring energized scraper which also prevents the ingress of mud or other contaminants to increase effective system service life. Secondary sealing capability for use with back pumping performance seals e.g. Turcon® Stepseal® 2K and Zurcon® Rimseal. Ideal for heavy duty mobile hydraulics applications. Primarily available in Turcon® or Zurcon® materials.

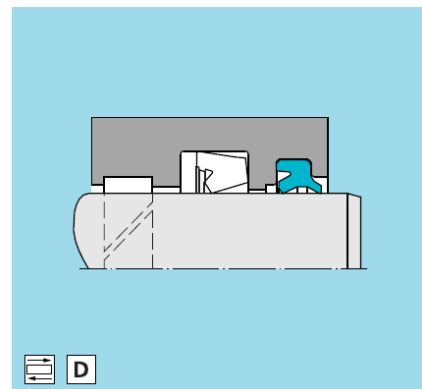
Ø Range	Temperature Range	Velocity
20 – 2600 mm	-45 °C +200 °C	15 m/s



Zurcon® Scraper DA22

Double acting scraper with a sealing and a scraping lip in injection molded polyurethane. Installed in grooves to ISO 6195 type C. For application in conjunction with seals with a back pumping performance, e.g. Turcon® Stepseal® 2K and Zurcon® Rimseal.

Ø Range	Temperature Range	Velocity
5 – 180 mm	-35 °C +100 °C	1 m/s



KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



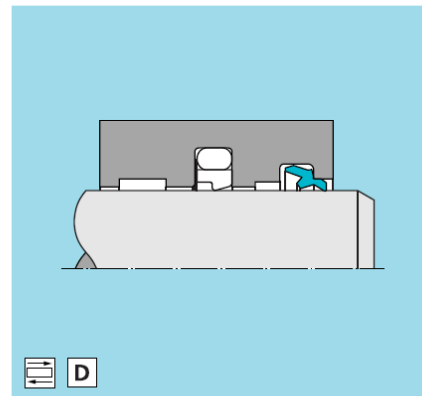
Zurcon® Scraper DA24

The Zurcon® Scraper DA24 is a double-acting scraper of polyurethane for severe operating conditions and heavy attack of dirt.

The Zurcon® Scraper DA24 is especially suitable for application in:

- Construction machinery
- Mobile hydraulic
- High attack of dirt
- Side steering of piston rod

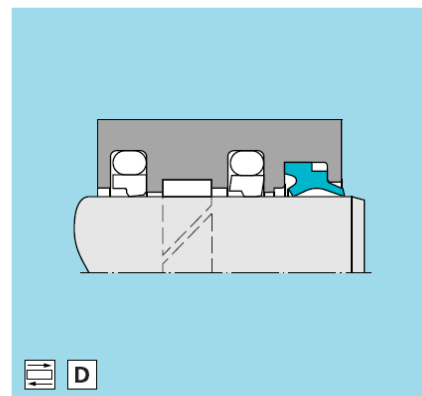
Ø Range	Temperature Range	Velocity
42 – 280 mm	-35°C +100°C	up to 0.5 m/s



Scraper DA17

Double acting scraper with both a sealing and a scraping lip in nitrile (NBR). For application in conjunction with seals with back pumping performance, e.g. Turcon® Stepseal® 2K and Zurcon® Rimseal.

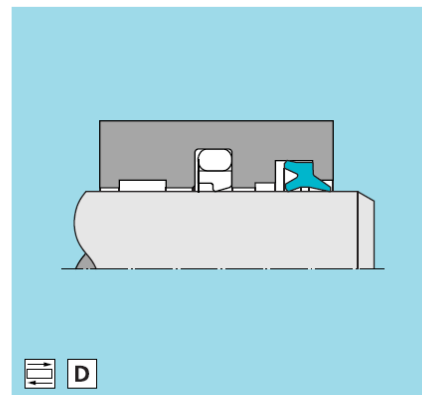
Ø Range	Temperature Range	Velocity
10 – 440 mm	-30°C +110°C	1 m/s



Scraper DA27

The double acting rubber scraper DA27 is particular designed for big diameter hydraulic applications. With its "heavy" cross section it is a natural extension of scraper DA17 for diameters over 400mm. The DA27 scraper will be produced by vulcanizing the requested size from 600mm master mold.

Ø Range	Temperature Range	Velocity
400 – 2600 mm	-30°C +100°C	1 m/s



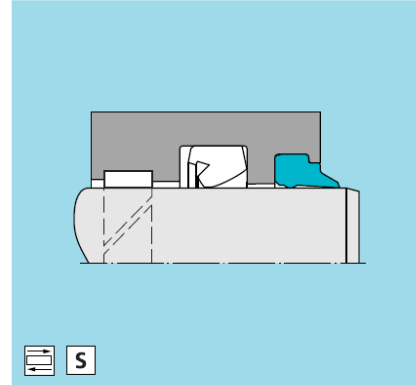
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Zurcon® Scraper ASW

Injection molded polyurethane design with one scraping lip and inner support bead to improve seating in the groove. Good abrasion and tear resistance.

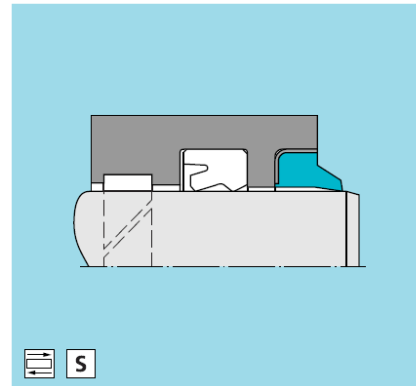
Ø Range	Temperature Range	Velocity
8 – 125 mm	-35 °C +110 °C	1 m/s



Scraper SA

Metal caged scraper with nitrile (NBR) lip. Installed in open grooves including grooves to ISO 6195 Type B.

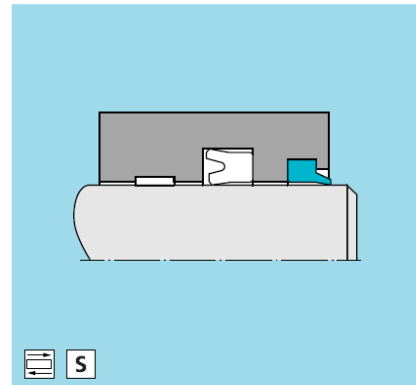
Ø Range	Temperature Range	Velocity
6 – 270 mm	-30 °C +110 °C	1 m/s








Scraper WRM

Scraper WRM is a single-acting, heat-molded elastomer scraper. It possesses a comb-profile sealing surface on its outer diameter which guarantees a firm seat in the groove. It is easy to install in closed grooves.

Ø Range	Temperature Range	Velocity
12 – 260 mm	-30 °C +110 °C	1 m/s



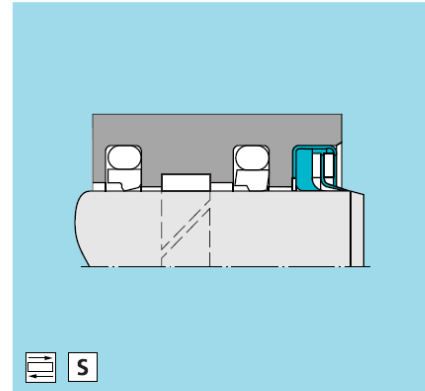
KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting = **S** Double acting = **D**



Metal Scraper

Metal scraper consists of a thin spring brass scraper lip in tandem with a nitrile (NBR) wiping lip encased in a steel shell. Capable of removing dried or frozen mud, tar, ice and other contaminants from the rod. Also available in stainless steel with FKM wiper lip.

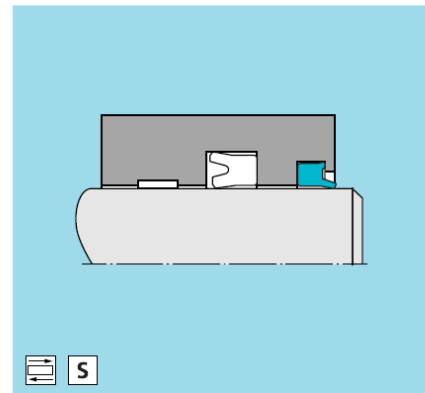
Ø Range	Temperature Range	Velocity
12 – 220mm	-40°C +120°C	1 m/s



Zurcon® Scraper WNE

Single acting polyurethane scraper with a static sealing lip to prevent any water or dirt ingress to the grooves. Recommended for applications in mobile hydraulics and agricultural machinery.

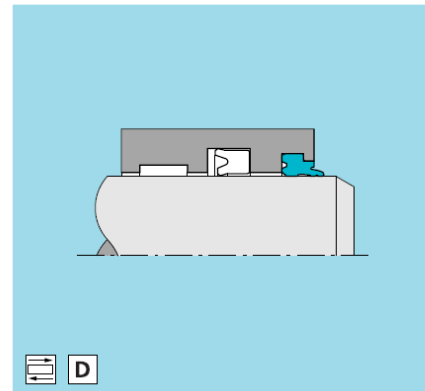
Ø Range	Temperature Range	Velocity
4 – 280mm	-35°C +100°C	1 m/s



Zurcon® Scraper WNV

WNV is a double acting scraper. The dynamic scraping lip is specially designed with an additional inwards sealing edge to keep the residual oil film in the system. If the volume of this oil film can not be backpumped by the main rod seal (e.g. U-Cup) a pressure build up between u-cup and scraper will be prevented by releasing this pressure by lifting of the scraper lip. The static sealing lip and edge respectively ensure against the intrusion of dirt and fluids.

Ø Range	Temperature Range	Velocity
16 – 100mm	-35°C +100°C	1 m/s



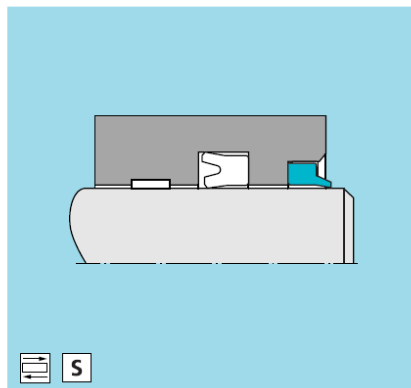
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Scraper WRM/C, Zurcon® Scraper WRM/PC

A metal caged elastomer scraper (WRM/C) for easy installation in open grooves. WRM/PC comprises the same design but with a polyurethane scraper element, providing high abrasive resistance and effective scraping performance. Applications for both designs: standard hydraulic cylinders in mobile hydraulics and agricultural machinery.

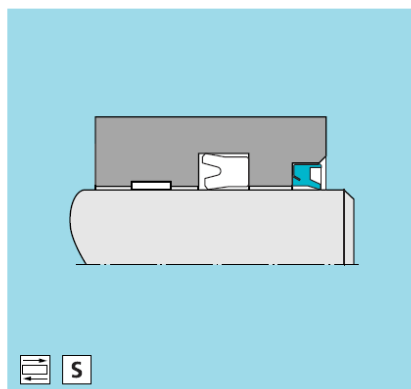
Ø Range	Temperature Range	Velocity
6 – 270 mm	-30°C +110°C	1 m/s







Zurcon® Scraper SWP

A single acting Zurcon® scraper encased in a steel carrier. Excellent wear resistance and easy installation into open grooves. Recommended for mobile hydraulic applications and as a rotary link pin seal.

Ø Range	Temperature Range	Velocity
25 – 190 mm	-35°C +100°C	1 m/s



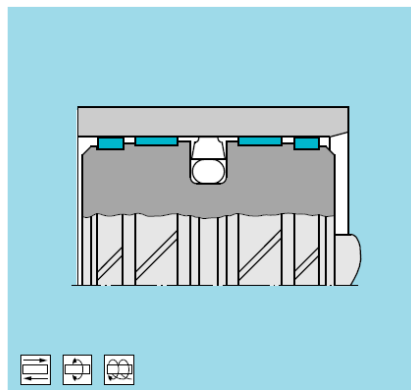
KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting = **S** Double acting = **D**



Turcite® Slydring®

Prevents metal to metal contact between piston/rod and bore/gland and absorbs transverse loads. Turcite® material gives good load capacity with low friction and stick-slip-free operation. Protects critical sealing lips from contamination and dieseling effects. Cost effective, allows designers freedom in hardware material selection. Higher static loads are permissible.

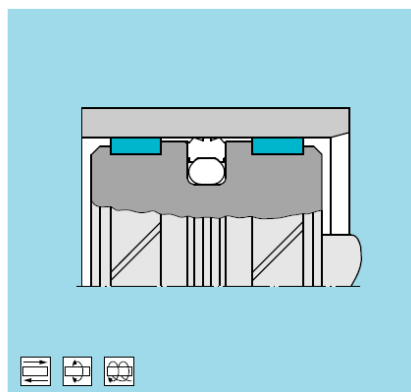
Ø Range	Dynamic Load	Temperature Range	Velocity
8 – 4000 mm	15 N/mm ²	-60 °C +200 °C	15 m/s



HiMod® Slydring®

Prevents metal to metal contact between piston/rod and bore/gland and absorbs transverse loads. The modified polymeric material provides an economic solution for applications with medium transverse loads, while giving good wear and compression properties. Provides easy snap-fitting, good dry running and wiping performance. Higher static loads are permissible.

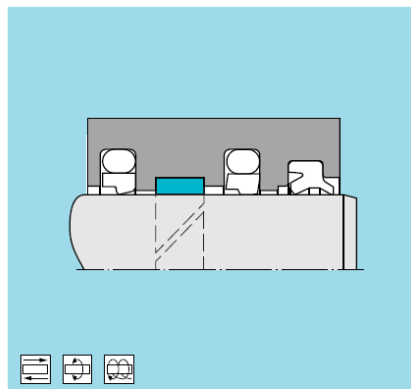
Ø Range	Dynamic Load	Temperature Range	Velocity
8 – 300 mm	75 N/mm ²	-40 °C +130 °C	1 m/s



Orkot® Slydring®

Prevents metal to metal contact between piston/rod and bore/gland and absorbs high transverse loads. Orkot® is a resin impregnated fine weave fabric material with added lubricants capable of withstanding high side loads, damping vibrations and embedding foreign particles. Higher static loads are permissible. Special materials available to +250 °C.

Ø Range	Dynamic Load	Temperature Range	Velocity
8 – 1500 mm	90 N/mm ²	-60 °C +130 °C	1 m/s



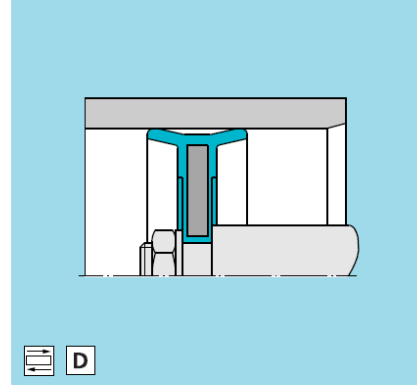
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Complete Pneumatic Piston

A complete double acting piston supplied to CETOP sizes. Comprised of a molded nitrile (NBR) piston head with vulcanized metal support ring. Fields of application include oily and non processed compressed air and dry oil free air.

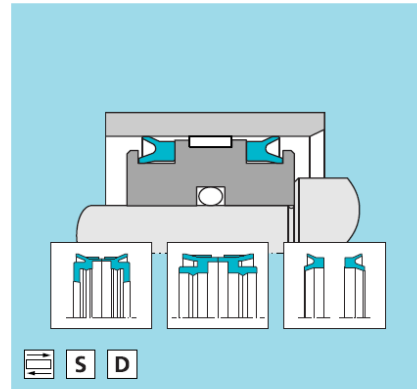
Ø Range	Pressure Range	Temperature Range	Velocity
25 – 200mm	1.2 MPa	-30 °C +100 °C	1 m/s



Pneumatic Piston Seal

The pneumatic product range offers single and double acting seals for piston applications. Made from extremely wear resistant material (standard polyurethane, Zurcon® polyurethane, FKM), these seals fit into small housings and are easily installed. The pneumatic piston seals range is recommended for standard and pneumatic cylinders with dry air.

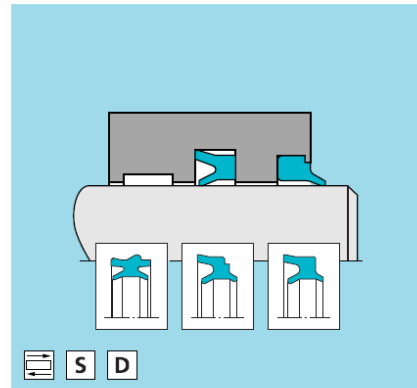
Ø Range	Pressure Range	Temperature Range	Velocity
4 – 250mm	1.6 MPa	-40 °C +85 °C	1 m/s



Pneumatic Rod Seal and Rod Seal - Scraper Combination

Pneumatic rod seals are available as lip seals and rod seal-scraper combinations for closed and open housings. The special materials (standard polyurethane, Zurcon® polyurethane, FKM) provide high abrasion resistance and low friction with optimal cost effectiveness. Recommended for applications in standard cylinders – installed with a separate scraper – or as rod seal - scraper combination for dry air.

Ø Range	Pressure Range	Temperature Range	Velocity
3 – 100mm	1.6 MPa	-40 °C +150 °C	up to 5m/s



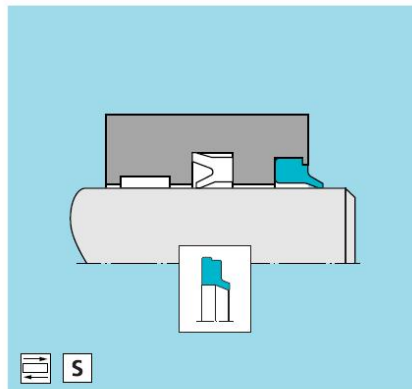
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Pneumatic Scraper / Scraper for Guiding Units

Two versions of scrapers which snap easily into open or semi-open grooves. The special flexible lip design protects the cylinder from contamination. Where space is at a premium, the 3 mm long AWBB, is recommended (guiding units only).

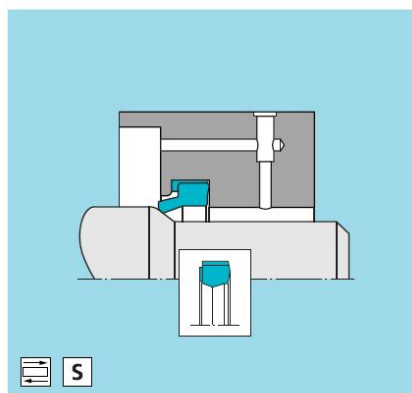
∅ Range	Pressure Range	Temperature Range	Velocity
6 – 60mm	—	-40 °C +80 °C	up to 4 m/s



Pneumatic Cushioning Seal

Cushioning seals provide the end of stroke damping in pneumatic cylinders, eliminating the need for check valves. These polyurethane, high performance seal elements are remarkably user friendly and provide automatic centering check valve function and easy, snap-in installation.

∅ Range	Pressure Range	Temperature Range	Velocity
6 – 60mm	1.6 MPa	-40 °C +110 °C	1 m/s



Non-standard Pneumatic Seal

Standard seals are frequently not appropriate for non-reciprocating and high volume applications. As your development partner, we can work with you to design, develop and supply precision elements and sealing systems in accordance with your requirements.

∅ Range	Pressure Range	Temperature Range	Velocity
—	—	—	—



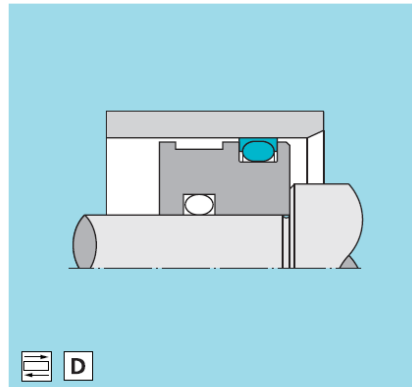
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Pneumatic Glyd Ring® for Piston and Rod

Double acting Glyd Ring® available as piston or rod seal comprising a slipper seal and an energizing O-Ring combined with less installation space required. Different possible material combinations (Turcon® PTFE / Zurcon® polyethylene with NBR or FKM O-Ring) provide suitable solutions for special pneumatic applications where great importance is attached to minimum static and dynamic friction, low stick-slip effects, high speed performance or wide temperature range.

Ø Range	Pressure Range	Temperature Range	Velocity
3 – 2700mm	1.6 MPa	-30 °C +200 °C	5 m/s

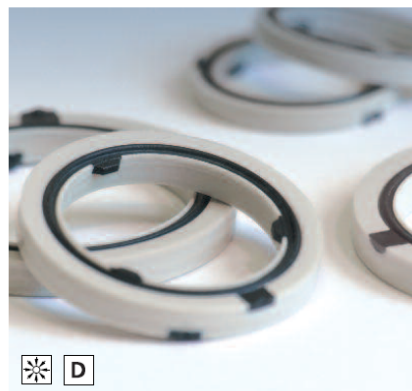


Pneumatic Static Seal DRV4

The DRV4-seal is a static operating seal ring developed for pneumatic applications. It is a 2-component-injection-molding part (plastics / polyurethane). DRV4-seal is conform according ISO 16030 and achieves the following properties:

- captive on thread (triple-lug principle)
- reusable (up to 5 – 10 x)
- close by hand-torque
- no corrosion, because plastics-polyurethane-bonded
- excellent automatically mountable
- lightweight

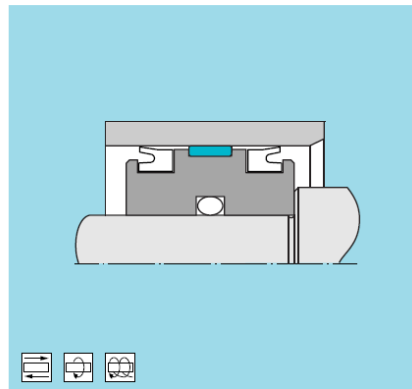
Ø Range (Thread)	Pressure Range	Temperature Range	Velocity
G1/8" – G3/4"	1 MPa	-10 °C +60 °C	—



Pneumatic Wear Ring for Pistons and Rods

A complete range of seals and bearings for pneumatics with the most common dimensions for pistons and rods. The guide rings are made of a specially developed, self lubricating plastic material to provide low friction, wear resistance, long term compression stability and excellent service life.

Ø Range	Dynamic Load	Temperature Range	Velocity
8 – 250mm	40 N/mm²	-40 °C +110 °C	1 m/s



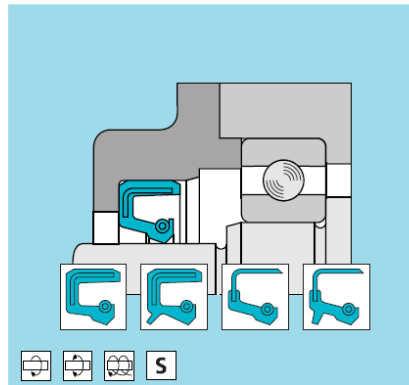
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Radial Oil Seal

Radial lip seal design for shafts and spindles. Consisting of a rubber sleeve, metal stiffening ring and a spiral tensioning spring. Oil seals provide long lasting sealing efficiency. Available with or without external dust lip, they are self retained in an open groove to ISO 6194 and DIN 3760. Versions available without tensioning spring which can be used as a scraper and for helical movements.

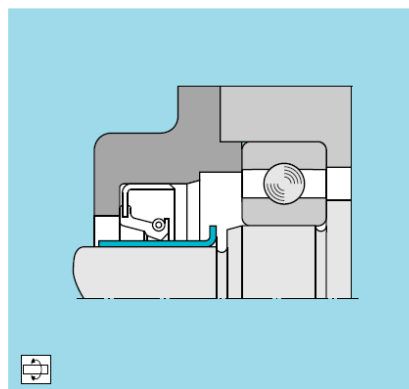
Ø Range	Pressure Range	Temperature Range	Velocity
4 – 1800mm	1 MPa	-40 °C +200 °C	30 m/s



Shaft Repair Kit

Suitable for the repair of worn shafts or on OEM installation to avoid the need to harden the shaft. Shaft repair kits are a thin walled stainless steel surface which do not require any modification to the existing seal sizes. Tools for installation on the shaft are included in the kit.

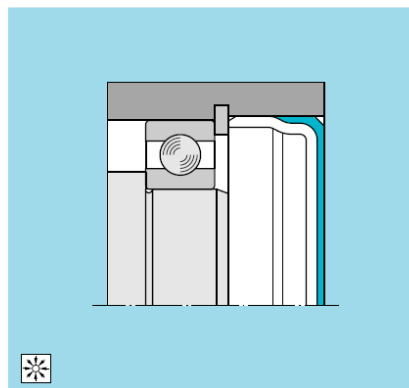
Ø Range	Pressure Range	Temperature Range	Velocity
12 – 200mm	—	—	—



Sealing Cap

Sealing Caps consist of a metallic banding and have a rubber coated front. They are applied in order to seal gaps, core removing holes or bearing seals. They are often used as a substitute for sealing flanges and covers in gear manufacture.

Ø Range	Pressure Range	Temperature Range	Velocity
16 – 180mm	—	-40 °C +200 °C	—



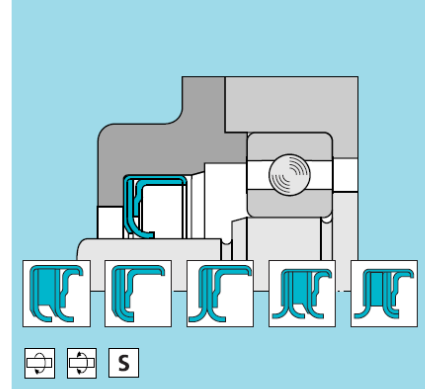
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Varilip® Radial Lip Shaft Seal

A high performance rotary shaft seal comprising Turcon® sealing lip(s) for low friction and wear, in a stainless steel case. May operate either lubricated or unlubricated. Variations include single and double lipped versions with or without an excluder lip. Installs in ISO 6194/1 and DIN 3760 open groove dimensions.

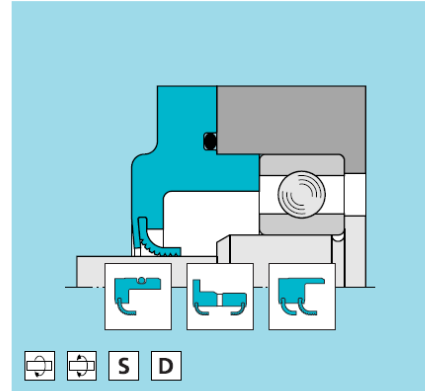
Ø Range	Pressure Range	Temperature Range	Velocity
6 – 170mm	2 MPa	-60 °C +200 °C	30 m/s



Varilip® PDR Radial Lip Shaft Seal

A high performance rotary shaft seal comprising PTFE sealing lip(s) for low friction and high speed and endurance capabilities. Custom designed with hydrodynamic feature for maximum oil sealing and with seal housing material and design chosen to best satisfy the specific application. Variations can include multi-lipped designs, rubber covered outer diameters and cartridge arrangements.

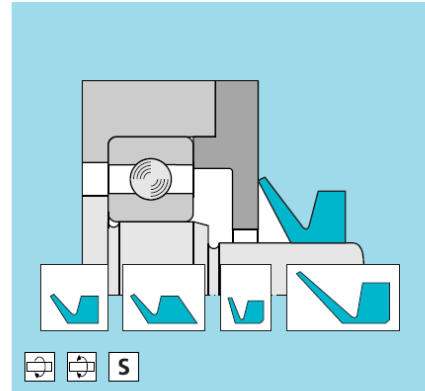
Ø Range	Pressure Range	Temperature Range	Velocity
3 – 1500mm	1.5 MPa	-100 °C +260 °C	90 m/s



V-Ring®

A flexible axial lip seal for shafts and bearings. The V-Ring® fits directly into the shaft and seals axially against a counterface e.g. shaft collar, thrust washer, roller bearing face etc. Provides reliable sealing against dust, dirt, oil, grease etc. with low friction. Available in nitrile (NBR) and fluorocarbon (FKM).

Ø Range	Pressure Range	Temperature Range	Velocity
3 – 2000mm	—	-40 °C +200 °C	12 m/s



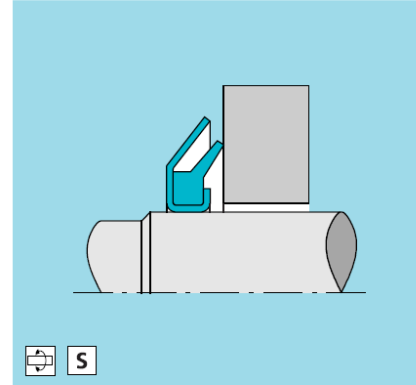
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



GAMMA Seal

An axial rotary seal to exclude contamination, moisture, grease etc. consisting of an elastomer sealing lip contained in a metal carrier – able to cope with arduous static and dynamic conditions in mobile hydraulics and power transmission applications.

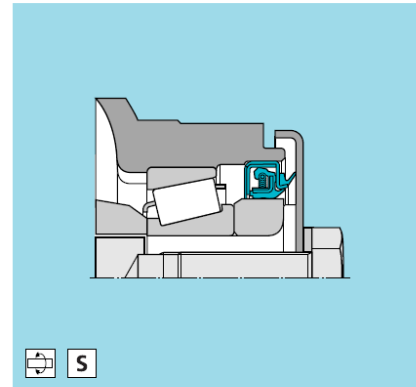
∅ Range	Pressure Range	Temperature Range	Velocity
10 – 225 mm	—	-30 °C +200 °C	10 m/s



STEFA System 500 / 3000 / 5000 Cassette Seals

The STEFA System is a completely enclosed seal providing the functions of oil seals, wear sleeve and dust protection in one unit. This seal generation has been developed to meet the ever increasing requirements of long service-life, high functional reliability, environmental safety and easy installation. STEFA System 500/3000/5000 Cassette Seals are used in heavy duty vehicle axes, hubs and industrial gearboxes.

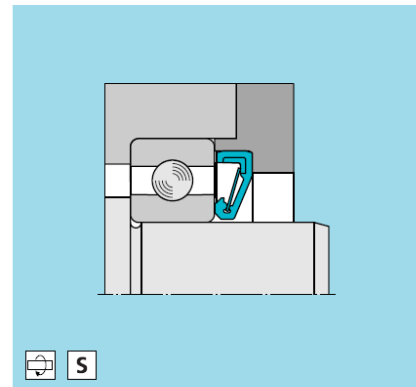
∅ Range	Pressure Range	Temperature Range	Velocity
90 – 320 mm	0.05 MPa	-30 °C +200 °C	15 m/s



Axial Shaft Seal

An axial lip seal for shafts and bearings. Consists of a rubber sleeve, a metal stiffening ring and an axial spring. This sealing element seals axially against any suitable surface e.g. the front of a ball race or shaft collar. Available with either an inner or outer lip seal.

∅ Range	Pressure Range	Temperature Range	Velocity
6 – 380 mm	0.01 MPa	-40 °C +200 °C	30 m/s



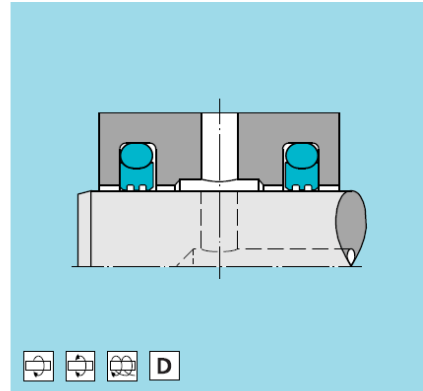
KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**



Turcon® Roto Glyd Ring®

Double acting O-Ring energized seal designed for rotating, oscillating and helically moving pistons, rods and shafts. Installed in grooves to ISO 7425. Available in single acting version for higher rotating speeds.

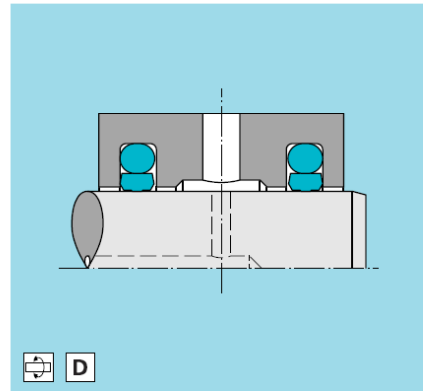
Ø Range	Pressure Range	Temperature Range	Velocity
6 – 2500mm	30 MPa	-45 °C +200 °C	2 m/s



Zurcon® Roto Glyd Ring® S

Double acting rotary seal for oscillating movements. For low frictional performance applications in rotary transmission lead throughs and indexing tables at tool machines.

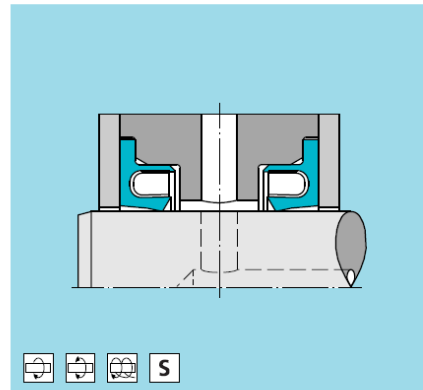
Ø Range	Pressure Range	Temperature Range	PV Limit
12 – 2700mm	40 MPa	-30 °C +200 °C	6.5 MPa · m/s



Turcon® Roto Variseal®

Single acting sealing element comprising a U-shaped Turcon® ring and stainless energizing finger spring. Low friction with no stick-slip, minimized break out force and high wear resistance. Constrained flange eliminates potential seal rotation. Resistant to most liquids and chemicals. Unlimited shelf life.

Ø Range	Pressure Range	Temperature Range	Velocity
5 – 2500mm	15 MPa	-100 °C +260 °C	2 m/s



KEY TO APPLICATIONS: Reciprocating = Rotary = Oscillating = Helix = Static = Single acting = **S** Double acting = **D**

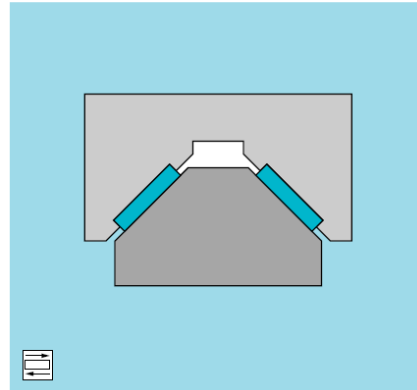
9. Linear Bearings & Bushings



Turcite®-B Slydway®

Turcite®-B Slydway® is a low friction linear bearing strip material for use, primarily, on the ways and gibs of machine tools. It provides low friction, stick-slip free operation, long life and minimum wear. Turcite®-B Slydway® is applied using a two part epoxy resin after cleaning and degreasing the bare metal surface thoroughly. The Turcite®-B Slydway® is dimensionally stable, maintenance free and can be operated with or without lubrication.

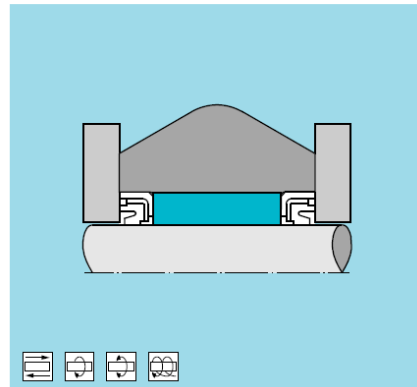
Ø Range	Load	Temperature Range	Velocity
—	9 N/mm ²	up to +260 °C	1 m/s



Orkot®, Turcite® and HiMod® Bearings

High load bearings made from Turcite® and HiMod® engineered thermoplastics or Orkot® synthetic composites. The bearings are dimensionally stable, wear resistant and provide excellent performance under dry and boundary lubrication conditions.

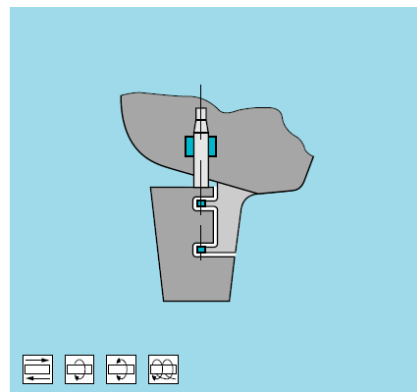
Ø Range	Load	Temperature Range	Velocity
2 – 3000 mm	120 N/mm ² static 90 N/mm ² dynamic	-60 °C +250 °C	6 m/s



Orkot® Marine Bearings

A non-asbestos synthetic composite material incorporating solid lubricants. Orkot® Marine Bearings have exceptional wear resistance, and virtually no swell in water. Their elasticity, compared to metal bearings, permits edge loading and misalignment, under the heaviest loads. They provide effective and maintenance free solutions where (salt)water is involved. Hydrodynamic running is possible when velocities are at least 1 m/s.

Ø Range	Load	Temperature Range	Velocity
6 – 2000 mm	120 N/mm ² static 90 N/mm ² dynamic	-60 °C +130 °C	6 m/s



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10. Custom-made Components

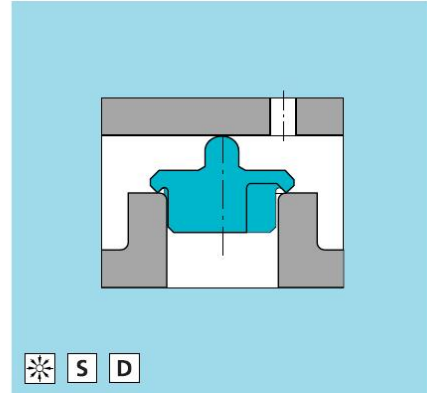


Ventseal-Light

Preferred cases of applications are maintenance-free lead gel storage batteries, Ni-Cd batteries, Ni-MH batteries and VLRA batteries. Also suitable for all cases where the pressure in a closed receptacle must be kept below certain limit. The use of different elastomer materials grants a reliable sealing of various media. Ventseal-Light is an optimized version of the well-known Ventseal series of Trelleborg Sealing Solutions. It combines the characteristics of a seal and a pressure control valve in one single product. This version allows adjustment to the opening pressure and adaption to the respective application.

Temperature Range

-40 °C +200 °C



Custom-made Elastomeric Products

Custom molded elastomeric and thermoplastic components to close tolerances and in a wide range of engineered materials including Isolast®. Produced with design assistance or to customer drawing.

Temperature Range

up to +325 °C



Custom-made PTFE Components

A wide range of filled and unfilled engineered PTFE components for all facets of industry including valve seats, pump diaphragms, chevron packings, nozzles, bellows, guides, bearings, electrical insulators, etc. Produced with design assistance or to customer drawing.

Temperature Range

up to +260 °C



KEY TO APPLICATIONS: Reciprocating =  Rotary =  Oscillating =  Helix =  Static =  Single acting =  Double acting = 

10. Custom-made Components



Ground Balls

Ground Balls are rubber spheres of high dimensional accuracy. They guarantee sealing without leaks, are insensitive to dirt and produce little noise. Ground Balls are used primarily as sealing elements in non-return check valves to seal against hydraulic fluid, water or air.

Temperature Range

-30 °C +200 °C



Custom-made HiMod® High Modulus Plastics

A wide range of high performance, high modulus thermoplastics for use as custom molded components, reinforcing rings and back-up rings. Grades available to optimise on structural, chemical, electrical and high performance bearing applications.

Temperature Range

up to +300 °C



Elastomer Diaphragms

Diaphragms are available in many forms and designs in a variety of homogeneous or fabric-reinforced elastomers. Technically challenging applications are solved through composite design and material technology including the application of PTFE and other barrier materials for chemically aggressive environments. Plastic or metal-to-rubber bonding can be incorporated to simplify assembly and provide precision control of movement or pressure. Diaphragms are normally engineered as complete customized solutions to solve particular application challenges. Applications include automotive and aerospace components, chemical processing, sanitary systems and water management.

Pressure Range (not re-enforced)	Pressure Range (re-enforced)	Temperature Range
up to 0.05 MPa	10 MPa	-50 °C +325 °C



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Zurcon® Dualseal	Static Seals	6	20
Zurcon® Glyd Ring® P	Fluid Sealing Systems – Piston Seals	8	24
Zurcon® L-Cup®	Fluid Sealing Systems – Rod Seals	10	31
Zurcon® Rimseal	Fluid Sealing Systems – Rod Seals	9	30
Zurcon® Roto Glyd Ring® S	Rotary Seals	15	46
Zurcon® SAE Flange Seal	Static Seals	7	23
Zurcon® Scraper ASW	Fluid Sealing Systems – Scrapers	11	36
Zurcon® Scraper DA22	Fluid Sealing Systems – Scrapers	11	34
Zurcon® Scraper DA24	Fluid Sealing Systems – Scrapers	11	35
Zurcon® Scraper SWP	Fluid Sealing Systems – Scrapers	12	38
Zurcon® Scraper WNE	Fluid Sealing Systems – Scrapers	12	37
Zurcon® Scraper WNV	Fluid Sealing Systems – Scrapers	12	37
Zurcon® U-Cup	Fluid Sealing Systems – Piston Seals	8	26
Zurcon® U-Cup	Fluid Sealing Systems – Rod Seals	10	30
Zurcon® Wynseal	Fluid Sealing Systems – Piston Seals	8	26

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