



Hydraulic seals



DEPAC hydraulic seals

Red Super Polymer hydraulic seals from DEPAC are produced according to the latest technical findings. They are made of the optimum raw materials for flexible use and offer several advantages compared to conventional seals made of leather, Neoprene, rubber or fabric-reinforced elastomers.



Unlimited shelf life

Conventional seals become brittle when exposed to light, heat and ozone and lose their sealing capacity over time. DEPAC hydraulic seals however are made of a unique polymer material with homogeneously incorporated lubricant. They have an unlimited shelf life and can be used without problem even after a long period in storage.



Positive lip design - gentle and clean

The negative lip forms of normal seals allow dirt and foreign particles to be trapped between the seal lips and the cylinder. This causes grooving and increased repairs to the cylinder and piston rod. DEPAC's computer-calculated positive lip design wipes away dirt and particles without leakage, with little friction and with minimum wear.



Non-absorbent polymer material

Conventional seals swell as they absorb hydraulic fluid. This causes excessive wear and filters become blocked with fibres. DEPAC's polymer material however is not absorbent and does not swell. Its homogeneously incorporated lubricant ensures highest lubrication.



Self-sealing – with no re-adjustment

Many conventional seals require repeated, time-consuming and therefore expensive re-adjustment to avoid excessive leakage. DEPAC's lip-structure has inbuilt pre-tension which automatically adjusts to different pressures. There is no need for tightening or re-tightening.



Installation damage is avoided

Despite the greatest of care, conventional seals are highly vulnerable to damage of the sensitive sealing surfaces during installation. Reduced service life or total failure of the seal can be the result. DEPAC's unique polymer material prevents installation damage thanks to its high elasticity and wear-resistance.



Competitive prices

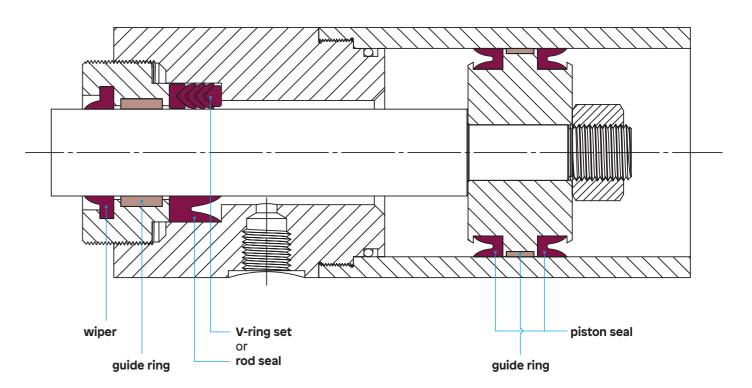
With modern production methods DEPAC is able to supply its entire range of seals at highly competitive prices. With the longer shelf life of the seals and the protection they give to your system, DEPAC seals represent outstanding value for money.



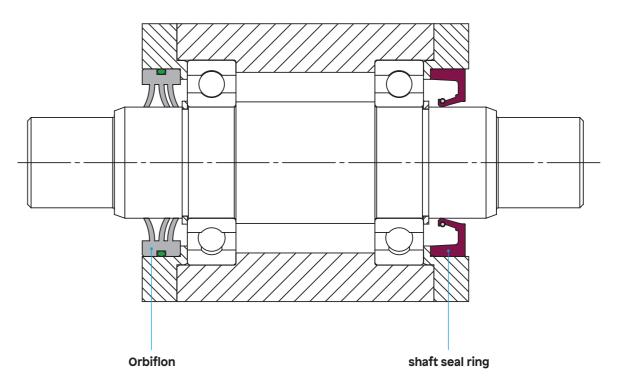
Short delivery times

The sometimes substantial delivery times of many hydraulic seal manufacturers increase warehouse capital for the customer. DEPAC however can guarantee supply of the most varied seal designs within just a few days.

Installation example, hydraulic unit



Installation example, rotating shaft



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Endless rings

RS (rod mounted)

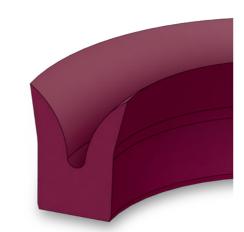
PS (piston mounted)

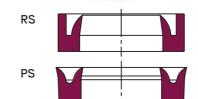
Advantages

- · Computer-designed stable lip design
- · Solid impact-resistant body
- · Self-sealing
- No adjustment necessary
- For deep and shallow installation chambers
- Self-lubricating
- No extruding
- · Minimum wear
- Non-absorbent polymer material
- · Available in mm and inches
- Pressure up to 500 bar

Required information for order

- Type description
- Measurements of the installation space (see order form page 10 /11)





V-ring set

RS

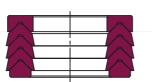
Advantages

- · Fully-automatic seal
- · Split or continuous
- · No adjustment necessary
- · Stable lip design
- Permanent self-lubrication
- No extruding
- Non-absorbent polymer material
- Minimum friction
- · Available in mm and inches
- Pressure up to 500 bar

Required information for order

- Type description
- Measurements of the installation space (see order form page 10 /11)





Wiper

WR

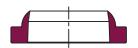
Advantages

- · Low friction
- · Stable lip form
- Automatic lip pretension
- No aging
- High elasticity
- · Universal wiper
- · Best rod cleaning
- · Self-lubricating
- · Available in mm and inches



Required information for order

- Type description
- Measurements of the installation space (see order form page 10 /11)

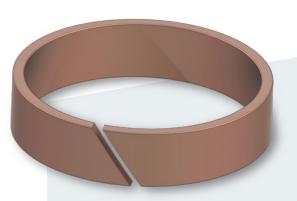


Required information for order

BW

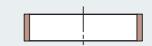
Advantages

- Pressure-resistance 340 N / mm2
- · Resistant to water and oil
- · Rings and products by the meter
- Also supplied in synthetic fabric made of phenolic resin fibres with incorporated PTFE



Required information for order

- Type description
- \cdot Measurements of the installation space (see order form page 10 /11)



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Orbiflon

DO

Rotation seals for bearing protection

Advantages

- For optimum protection of the bearing against dirt, water and moisture
- Exclusive PTFE compound (PTFE 9)
- Self-adjusting lip(s) for optimum wear compensation
- •1, 2, 3 or more lips
- · Shaft diameters from 10 to 1000 mm
- For shaft speeds up to 23 m/sec
- Food-compatible (FDA-compliant PTFE compound)
- Operating temperature max. 200° C
- · Can increase service life by a factor of 10

Areas for use

- · Bearing housings (pumps, mixers, kneaders, agitators)
- Gearboxes
- Single-thrust bearings
- Worm bearings

Installation instruction

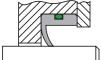
Bevelling (FW) may be required depending on the installation direction.

Required information for order

- Type description
- Measurements of the installation space (see order form page 10 /11)

Orbiflon profile overview

DO 30/1



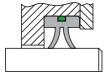
DO 30/2



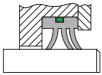
DO 30/3



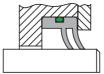
DO 30/1-1



DO 30/1-2



DO 31/2



Seal materials

Polyurethanes

Description	Colour	Operating temperature	Hardness at 20° C	Primary use
Red Super Polymer		-50°C to +120°C	Shore A 95 +/-2	Endless rings, wipers, V-ring sets, base bushings for mechanical seals and other sealing elements Resistant to HFA, HFB, HFC and biologically degradable hydraulic fluids Improved chemical and thermal resistance Excellent resistance to hot water (+95°C) Triple self-lubrication with MoS2 (molybdenum disulphide), wax and grease Very low friction values (on steel) from 0.18 to 0.22
PU light blue FDA		-50°C to +105°C	Shore A 95 +/-2	FDA-approved white H-PU polyurethane Endless rings, wipers, V-ring sets and other sealing elements Mineral oils, HFA and HFB fluids, water, seawater Low friction values (on steel) from 0.4 to 0.6

Elastomers

EPDM	-50°C to +130°C	Shore A 85 +/- 5	Endless rings, wipers, V-ring sets and other sealing elements Hot water and steam, ozone, dilute acids and alkalis EPDM is NOT mineral oil-resistant FDA-compliant versions also available
FKM	-20°C to +210°C	Shore A 85 +/- 5	Lip seals, wipers, chevron seals, shaft seals at high speeds and other sealing elements Mineral oils, HFD liquids at high temperatures Very good chemical resistances e.g. phosphate and chlorinated hydrocarbons, crude oil and sour gas FDA-compliant versions also available
Aflas® *	-15°C to +210°C	Shore A 85 +/-5	Endless rings, wipers, V-ring sets and other sealing elements Mineral oils, HFA, HFB, HFC and HFD fluids, hot water and steam, ozone, dilute acids and alkalis, acidic oils and gases, amines

Plastics

РОМ	-50°C to +100°C	-	Backup and guide rings, rotating parts with tight tolerances Mineral oils, HFA, HFB and HFC fluids Low water absorption Very low friction values (on steel) of < 0.4 FDA-compliant versions also available
PTFE	-200°C to +260°C	Shore D 51-60	Backup or sliding rings with preloading element, spring-preloaded seals, backup and guide rings Resistant to nearly all common chemicals and fluids with the exception of molten alkali metals Very low friction values (on steel) of 0.06 FDA-compliant versions also available
PTFE 9	-200°C to +260°C	Shore D 62-67	Special compound of pure virgin PTFE and carbon made exclusively for Orbiflon shaft seals Resistant to acids, alkalis and aggressive media Sliding speeds up to 23 m/s possible FDA-compliant versions also available
KT 200	-50°C to +130°C	_	Special synthetic fabric made of phenolic resin fibres with incorporated PTFE Exclusively for guide rings For guiding pistons and piston rods Prevention of metallic contact of the components

Other special materials on request.

Important: The specified minus-temperatures are only a guideline as the function in the cold depends on the type of seal, the conditions for use and the surrounding metal parts. The specified plus-temperatures can be exceeded but under certain circumstances this will reduce the service life.

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^{*} Aflas® is a registered trademark of the Asahi Glass Company

Wipers	
Profile	Wipers
	WR01
	WR01A
	WR02
	WR02A
	WR02B
	WR02C
	WR02D
	WR03
	WR04
	WR07
	WR08
	WR11
7	WR12
	WR13
	WR13_E2
	WR14
	WR15
	WR16
具	WR17
	WR18

Rod seals		
Profile	Wipers	
	RS01	
	RS01A	
	RS01B	
5	RS01C	
5	RS02	
K	RS02A	

Rod seals	
Profile	Wipers
	RS02B
5	RS02C
	RS03
	RS04
	RS04A
	RS05
K	RS05A
	RS08
	RS09
	RS09A
	RS09B
	RS10-12B
	RS91
	RS91B
	RS16
	RS17
	RS17A
	RS17B
	RS17C
	RS17D
	RS17E
	RS19
	RS19A
	RS20
	RS31-33
	RS31-33 RS35

Piston sea	ls
Profile	Wipers
	PS01
7	PS01A
K	PS01B
	PS01C
	PS02
	PS02A
	PS03
	PS04
	PS04A
	PS05
K	PS05A
	PS08
	PS08A
	PS08B
	PS08C
8	PS08D
	PS08E
	PS08F
	PS81
	PS81B
	PS81C
	PS09
	PS09A
	PS10-12B
	PS16
	PS16A
	PS17
	PS17A

PS17B

Piston seals				
Profile	Wipers			
	PS19			
	PS19A			
	PS20			
	PS23			
	PS35			
	PS35A			
Symmetric	cal seals			
Profile	Wipers			
	PRS06			
	PRS06A			
	PRS06B			
	PRS06C			
	PRS06D			
	PRS06E			
	PRS07			
	PRS10SP			
	PRS10-12			
	PRS10-12A			
	PRS13-15			

PRS19

PRS19B

PRS19C

PRS19D

PRS22

PRS25-27

PRS99

1	S Wipers
	PS19
	PS19A
	PS20
	PS23
	PS35
	PS35A
ic	wipers
	PRS06
	PRS06A
	PRS06B
	PRS06C
	PRS06D
	PRS06E
	PRS07
	PRS10SP
	PRS10-12
	PRS10-12A
	PRS13-15
-	PRS18

	BWR01
	BWR01A
	BWR03
	BWR04
-	BWR05
4	BWR06
	BWR07
	BWR08
+	BWR09
Static sea	
and O-rin	gs
Profile	Wipers
	FL01A
	FL02B
	FL02B FL03
	FL03
	FL03
	FL03 FL04 FL05
	FL03 FL04 FL05 FL06
	FL03 FL04 FL05 FL06 FL07
	FL03 FL04 FL05 FL06 FL07 FL08
	FL03 FL04 FL05 FL06 FL07 FL08 OR
	FL03 FL04 FL05 FL06 FL07 FL08 OR
	FL03 FL04 FL05 FL06 FL07 FL08 OR ORH

Rotary seals	
Profile	Wipers
	OS01A
	OS02A
	OS03A
-	OS08
7	OS08A
	R03
	R04
	R04A
	R05
	R05A
	VR06
	VR07
	R08
	R08D
	R09
	R09A
	R10
	R10A
	R11
	R11D
	R35A
	R35B

Customized seals		
Profile	Wipers	

Mining seals	
Profile	Wipers
	P50
	P50A
	P51
	P51A
	P51G
	P52
	P53
	P54
	P54A
	P55
10	R50
	R50A
	R51
	R52
	R53
	W50
	W51
	W53
	W54
	BWR01-P
	BWR01-R
	P58

Back-up rings	
Profile	Wipers
	BUR08
	BUR09
	BUR10
	BUR11
	BUR12
	BUR13

Order form Order form

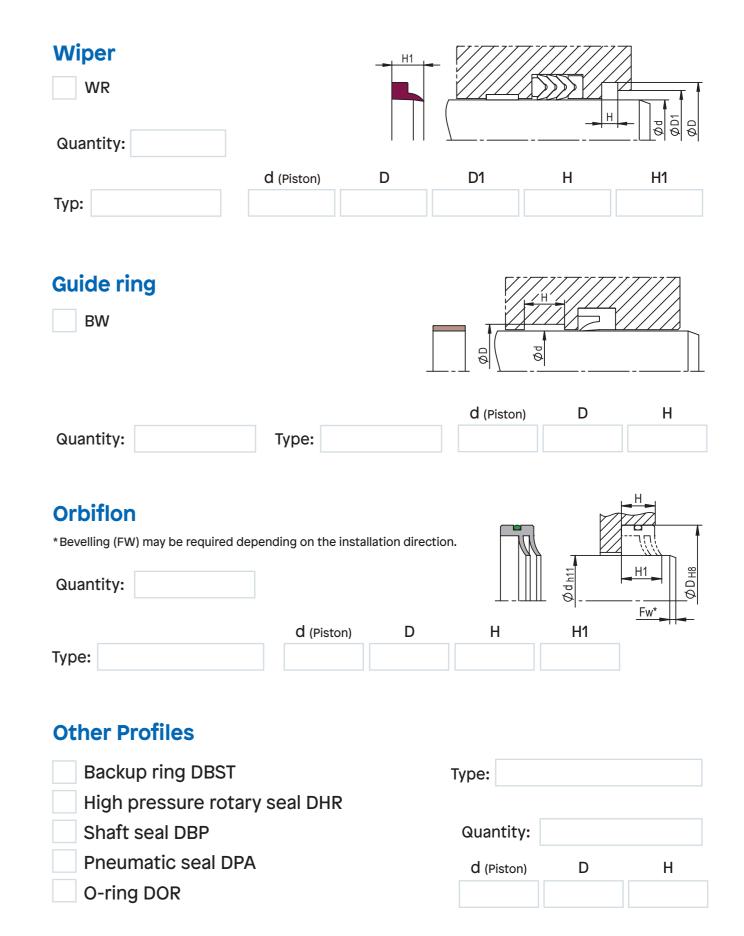
General Information Stroke length Stroke speed Pressure Temperature **RPM** Medium [mm] [bar] [°C] [m/s] Polyurethanes Material: **Elastomers Plastics Red Super Polymer** KT 200 **EPDM** POM PU light blue FDA FKM PTFE Alfas® PTFE 9 Other material: continuous split **Endless ring** RS (rod mounted) PS (piston mounted) PS D Н d (Piston) Quantity: Type: V-ring set RS

Type:

D

d (Piston)

Н



Quantity:



Mechanical seals
Packings
Hydraulic seals
Workshop
Comtec

Your authorized DEPAC dealer:

DEPAC Anstalt Wirtschaftspark 44, FL-9492 Eschen T +423 373 9700, F +423 373 9719 office@depac-fl.com, www.depac.at