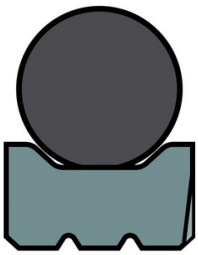
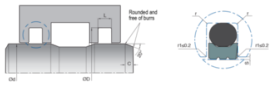


Rotorseal type 160

Rotorseal type 160 is a two piece double-acting sealing set for sealing piston rods, which consists of one PTFE profile ring and an o-ring as energizing element.



Characteristics

Type: 160
Application: Rod seal
Material seal: PTFE
Max. operating pressure: 300 bar
Maximum speed: 5 m/s

Application

- This seal is used for slowly rotating, oscillating or pivoting piston rods in hydraulic installations. Examples: mobile hydraulics , grippers and rotary joints.

Advantages:

- Able to use at high pressures and low peripheral speeds
- Low friction , free of stick-slip
- Simple groove design and low axial housing heights
- Long service life
- High sliding speed
- Wide range of temperature and chemicals, mostly dependent on the o-ring material
- Minimum static and dynamic friction coefficient for a minimum energy loss and operating temperature

Technical Information

Installation:

- We recommend using special assembly tool. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the sealing elements must be oiled.

Options

- For special applications that require high temperatures or resistance to chemicals, this seal can be be manufactured with special compound PTFE and the o-ring in FKM material.

Operating conditions			
Media	Mineral Oils (DIN 51524)	HFA and HFB	HFC
Temperature	-30°C + 105°C	+5°C + 60°C	-30°C + 60 °C
Speed	≤5,0 m/s	≤5,0 m/s	≤5,0 m/s
Pressure	≤300 bar	≤300 bar	≤300 bar
Note: The above data are maximum values, they may only be maintained for short periods of time and cannot be used at the same time simultaneously.			

Surface roughness		
	Ra	Rmax
Sliding Surface	≤0,2 µm	≤2,0 µm
Groove Base	≤1,6 µm	≤6,3 µm

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Surface roughness		
	Ra	Rmax
Groove Flanks	≤3,2 µm	≤16 µm

Maximum permissible sealing gap - S (mm)			
L (mm)	100 bar	200 bar	300 bar
2,2	0,15	0,10	0,075
3,2	0,20	0,15	0,10
4,2	0,20	0,15	0,10
6,3	0,30	0,20	0,15
8,1	0,30	0,20	0,15

Note: The largest sealing gap value occurring on the non-pressurized side of the seal does have a vital importance for the function of the seal and in this respect it is very important to use an S value lower than the above indicated numbers.

Hardware tolerances			
Dimension	Ød	ØD	L
Tolerance	f8	H9	+0,2/-0 mm

Internal diameter mm	Outer diameter mm	Groove width mm	Compound	Material energizer	Temperature range °C	Article
10	14.9	2.2	ER39	NBR	-30 / 105	14421578
12	16.9	2.2	ER39	NBR	-30 / 105	14421579
15	19.9	2.2	ER39	NBR	-30 / 105	14421580
16	20.9	2.2	ER39	NBR	-30 / 105	14421581
20	24.9	2.2	ER39	NBR	-30 / 105	14421583
20	27.5	3.2	ER39	NBR	-30 / 105	14421582
24	31.5	3.2	ER39	NBR	-30 / 105	14421584
25	32.5	3.2	ER39	NBR	-30 / 105	14421585
25.4	32.9	3.2	ER39	NBR	-30 / 105	14421586
28	35.5	3.2	ER39	NBR	-30 / 105	14421587
30	37.5	3.2	ER39	NBR	-30 / 105	14421588
32	39.5	3.2	ER39	NBR	-30 / 105	14421589
35	42.5	3.2	ER39	NBR	-30 / 105	14421590
36	43.5	3.2	ER39	NBR	-30 / 105	14421591
38	49	4.2	ER39	NBR	-30 / 105	14421592
40	51	4.2	ER39	NBR	-30 / 105	14421593
40	55.5	6.3	ER39	NBR	-30 / 105	14421594
45	56	4.2	ER39	NBR	-30 / 105	14421595
50	61	4.2	ER39	NBR	-30 / 105	14421596
52	67.5	6.3	ER39	NBR	-30 / 105	14421597
55	66	4.2	ER39	NBR	-30 / 105	14421598
56	67	4.2	ER39	NBR	-30 / 105	14421599
60	71	4.2	ER39	NBR	-30 / 105	14421600
60	75.5	6.3	ER39	NBR	-30 / 105	14421601
70	81	4.2	ER39	NBR	-30 / 105	14421602
75	86	4.2	ER39	NBR	-30 / 105	14421603
80	91	4.2	ER39	NBR	-30 / 105	14421604
80	95.5	6.3	ER39	NBR	-30 / 105	14421605
85	96	4.2	ER39	NBR	-30 / 105	14421606
85	100.5	6.3	ER39	NBR	-30 / 105	14421607

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Internal diameter mm	Outer diameter mm	Groove width mm	Compound	Material energizer	Temperature range °C	Article
90	101	4.2	ER39	NBR	-30 / 105	14421608
95	106	4.2	ER39	NBR	-30 / 105	14421609
100	111	4.2	ER39	NBR	-30 / 105	14421610
100	115.5	6.3	ER39	NBR	-30 / 105	14421611
105	116	4.2	ER39	NBR	-30 / 105	14421612
110	121	4.2	ER39	NBR	-30 / 105	14421613
115	126	4.2	ER39	NBR	-30 / 105	14421614
120	131	4.2	ER39	NBR	-30 / 105	14421615
120	135.5	6.3	ER39	NBR	-30 / 105	14421616
125	136	4.2	ER39	NBR	-30 / 105	14421617
125	140.5	6.3	ER39	NBR	-30 / 105	14421618
130	141	4.2	ER39	NBR	-30 / 105	14421619
140	151	4.2	ER39	NBR	-30 / 105	14421620
140	155.5	6.3	ER39	NBR	-30 / 105	14421621
145	156	4.2	ER39	NBR	-30 / 105	14421622
150	161	4.2	ER39	NBR	-30 / 105	14421623
150	165.5	6.3	ER39	NBR	-30 / 105	14421624
155	166	4.2	ER39	NBR	-30 / 105	14421625
160	171	4.2	ER39	NBR	-30 / 105	14421626
160	175.5	6.3	ER39	NBR	-30 / 105	14421627
165	180.5	6.3	ER39	NBR	-30 / 105	14421628
170	181	4.2	ER39	NBR	-30 / 105	14421629
180	191	4.2	ER39	NBR	-30 / 105	14421630
180	195.5	6.3	ER39	NBR	-30 / 105	14421631
190	201	4.2	ER39	NBR	-30 / 105	14421632
200	215.5	6.3	ER39	NBR	-30 / 105	14421633
210	225.5	6.3	ER39	NBR	-30 / 105	14421634
220	235.5	6.3	ER39	NBR	-30 / 105	14421635
240	255.5	6.3	ER39	NBR	-30 / 105	14421636
250	265.5	6.3	ER39	NBR	-30 / 105	14421637
280	301	8.1	ER39	NBR	-30 / 105	14421638
285	306	8.1	ER39	NBR	-30 / 105	14421639
300	321	8.1	ER39	NBR	-30 / 105	14421640

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