

Rotorseal type 260

Rotorseal type 260 is a two piece double-acting sealing set for sealing pistons, which consists of one PTFE profile ring and an o-ring as energizing element.

Characteristics

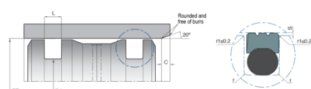
Type: 260

Application: Piston 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 pistons 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 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

L (mm)	Maximum permissible sealing gap - S (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	H8	h9	+0,2/-0 mm

Internal diameter	Outer diameter	Groove width	Compound	Material energizer	Temperature range	Article
mm	mm	mm			°C	
10.1	15	2.2	ER39	NBR	-30 / 105	14421526
11.1	16	2.2	ER39	NBR	-30 / 105	14421527
15.1	20	2.2	ER39	NBR	-30 / 105	14421528
20.1	25	2.2	ER39	NBR	-30 / 105	14421529
20.5	28	3.2	ER39	NBR	-30 / 105	14421530
24.5	32	3.2	ER39	NBR	-30 / 105	14421533
25.1	30	2.2	ER39	NBR	-30 / 105	14421531
27.1	32	2.2	ER39	NBR	-30 / 105	14421532
29	40	4.2	ER39	NBR	-30 / 105	14421536
30.1	35	2.2	ER39	NBR	-30 / 105	14421534
32.5	40	3.2	ER39	NBR	-30 / 105	14421535
37.5	45	3.2	ER39	NBR	-30 / 105	14421537
42.5	50	3.2	ER39	NBR	-30 / 105	14421538
44.5	52	3.2	ER39	NBR	-30 / 105	14421539
47.5	55	3.2	ER39	NBR	-30 / 105	14421540
52.5	60	3.2	ER39	NBR	-30 / 105	14421541
55.5	63	3.2	ER39	NBR	-30 / 105	14421542
57.5	65	3.2	ER39	NBR	-30 / 105	14421543
62.5	70	3.2	ER39	NBR	-30 / 105	14421544
64.5	80	6.3	ER39	NBR	-30 / 105	14421547
67.5	75	3.2	ER39	NBR	-30 / 105	14421545
69	80	4.2	ER39	NBR	-30 / 105	14421546
74	85	4.2	ER39	NBR	-30 / 105	14421548
79	90	4.2	ER39	NBR	-30 / 105	14421549
84	95	4.2	ER39	NBR	-30 / 105	14421550
89	100	4.2	ER39	NBR	-30 / 105	14421551
94	105	4.2	ER39	NBR	-30 / 105	14421552
99	110	4.2	ER39	NBR	-30 / 105	14421553
104	115	4.2	ER39	NBR	-30 / 105	14421554
109	120	4.2	ER39	NBR	-30 / 105	14421555

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Internal diameter	Outer diameter	Groove width	Compound	Material energizer	Temperature range	Article
mm	mm	mm			°C	
114	125	4.2	ER39	NBR	-30 / 105	14421556
119	130	4.2	ER39	NBR	-30 / 105	14421557
119.5	135	6.3	ER39	NBR	-30 / 105	14421558
124	135	4.2	ER39	NBR	-30 / 105	14421559
124.5	140	6.3	ER39	NBR	-30 / 105	14421560
134	145	4.2	ER39	NBR	-30 / 105	14421561
134.5	150	6.3	ER39	NBR	-30 / 105	14421562
144	155	4.2	ER39	NBR	-30 / 105	14421563
144.5	160	6.3	ER39	NBR	-30 / 105	14421564
154.5	170	6.3	ER39	NBR	-30 / 105	14421565
159.5	175	6.3	ER39	NBR	-30 / 105	14421566
164.5	180	6.3	ER39	NBR	-30 / 105	14421567
174.5	190	6.3	ER39	NBR	-30 / 105	14421568
184.5	200	6.3	ER39	NBR	-30 / 105	14421569
194.5	210	6.3	ER39	NBR	-30 / 105	14421570
204.5	220	6.3	ER39	NBR	-30 / 105	14421571
214.5	230	6.3	ER39	NBR	-30 / 105	14421572
224.5	240	6.3	ER39	NBR	-30 / 105	14421573
234.5	250	6.3	ER39	NBR	-30 / 105	14421574
244.5	260	6.3	ER39	NBR	-30 / 105	14421575
264.5	280	6.3	ER39	NBR	-30 / 105	14421576
284.5	300	6.3	ER39	NBR	-30 / 105	14421577

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