

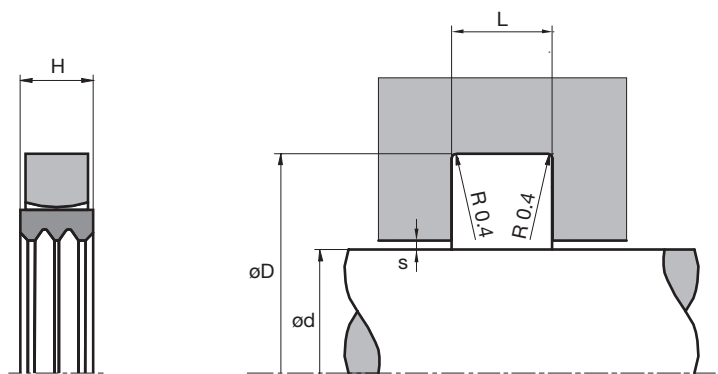


trygonal

Rotary Seal TR09FS

double acting

Housing design



The dimensions $s + c$ are dependent on the respective seal type.

Design

- Rotary seal with O-ring preload element, Shaft sealing ring
- Double sided sealing function of different pressures
- Use at high pressures and non-standard installation spaces
- PTFE design for low friction

Application



rotating



oscillating



screwing

Brightened symbols:

Seal only for limited use.

Please contact us.

Surface finish

Roughness	Rtmax (µm)	Ra (µm)	Material portion
Sliding surface	≤ 2,5	0,1 – 0,5	Hardness: min. 45 HRC (55 HRC recommended), insert depth > 0.3mm Contact area: 50 - 95% at a cutting depth of 0.5xRz starting from Cref = 0%.
Groove base	≤ 6,3	≤ 1,6	
Groove flanks	≤ 15	≤ 3	

Standard dimensions

ød f8 (mm)	øD H9 (mm)	L +0,2 (mm)	H (mm)	max. radial extrusion gap s ¹ (mm)		
				100 bar	200 bar	350 bar
≥ 5 – < 49,9	d + 10	5	4,8	0,25	0,2	0,10
≥ 50 – < 60	d + 15	7,5	7,1	0,3	0,25	0,10
≥ 60 – < 200	d + 20	10	9,3	0,3	0,25	0,15
≥ 200 – < 300	d + 25	12,5	11,8	0,3	0,25	0,15
≥ 300 – < 530	d + 30	15	14,3	0,45	0,3	0,2
≥ 530 – < 650	d + 35	17,5	16,8	0,45	0,3	0,2
≥ 650 – < 1000	d + 40	20	19,3	0,5	0,35	0,25

¹The specified extrusion gap is valid up to 70 °C, higher temperatures require lower values.

Material and application parameters

Sealing element	Preload element	Temp. (°C)	max. sliding speed (m/s)	max. pressure ²
PTFE carbon slide	NBR70	-30 – +100	0,4	350 bar (35 MPa)

²Pressure values as a function of the gap dimension.

The specified application parameters are generally valid values and must not be used simultaneously with the application. An order can be placed by specifying the profile type, material and specified housing design dimensions.

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