

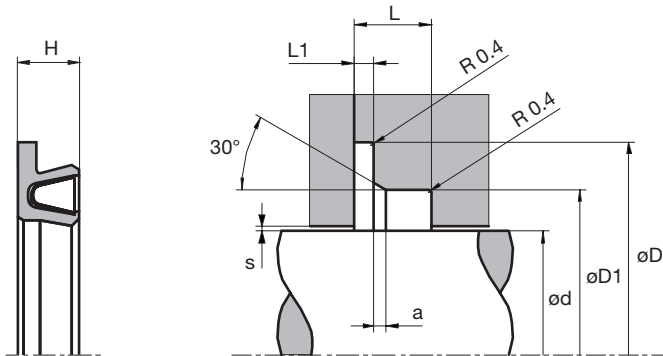


trygonal

Rotary Seal TR19F

single acting

Housing design



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

Surface finish

Roughness	Rtmax (μm)	Ra (μm)	Material portion
Sliding surface	≤ 2	0,05 – 0,3	Hardness: min. 45 HRC (65 HRC recommended), insert depth > 0.3mm Contact area: 50 - 95% at a cutting depth of $0.5 \times R_z$ starting from $C_{ref} = 0\%$.
Groove base	$\leq 6,3$	$\leq 1,6$	
Groove flanks	≤ 15	≤ 3	

Standard dimensions

ϕd f8 (mm)	ϕD H10 (mm)	$\phi D1$ H9 (mm)	L +0,2 (mm)	L1 (-Tol.) (mm)	H (mm)	max. radial extrusion gap s^1 (mm)		
						20 bar	100 bar	150 bar
$\geq 5 - < 20$	$d + 9,0$	$d + 5,0$	3,6	0,85 (-0,10)	3,35	0,25	0,15	0,10
$\geq 20 - < 40$	$d + 12,5$	$d + 7,0$	4,8	1,35 (-0,10)	4,45	0,35	0,20	0,15
$\geq 40 - < 400$	$d + 17,5$	$d + 10,5$	7,1	1,80 (-0,15)	6,57	0,50	0,25	0,20
≥ 400	$d + 22,0$	$d + 14,0$	9,5	2,80 (-0,20)	8,80	0,60	0,30	0,25

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

Material and application parameters

Sealing element	Spring	Temp. (°C)	max. sliding speed (m/s)	max. pressure ²
PTFE virgin diet	1,4310	-200 – +260	2	150 bar (15 MPa)
PTFE glass wear	1,4310	-200 – +260	2	150 bar (15 MPa)
PTFE bronze wear	1,4310	-200 – +260	2	150 bar (15 MPa)
PTFE carbon slide	1,4310	-200 – +260	2	150 bar (15 MPa)

² Pressure 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.

Design

- Spring supported PTFE seal
- Clamping flange on the back of the seal prevents rotation
- Excellent chemical and thermal resistance
- For high pressures and speeds

Application



rotating



oscillating



screwing

Brightened symbols:

Seal only for limited use.

Please contact us.