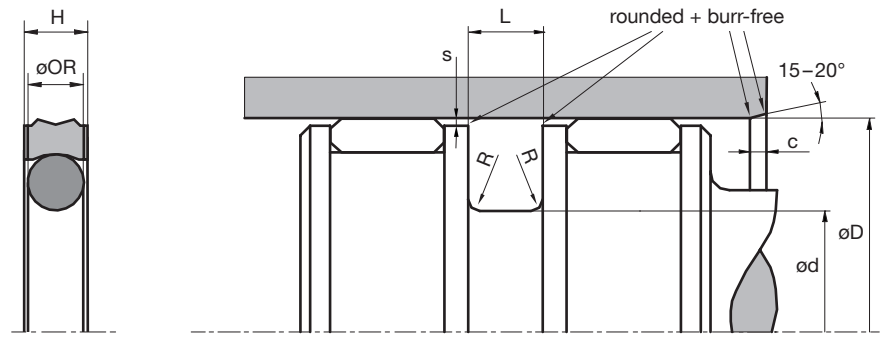
trygonal

Piston Seal TK08P

Hydraulics, double acting

Housing design



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

Design

- O-ring supported HPU sealing element; double acting
- Excellent static as well as dynamic sealing effect
- Very wear-resistant and easy to install
- For large diameters

Application

linear

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	Ratio contact area: 50 – 95% at a cutting depth of 0.5 x Rz starting from Cref = 0%
Groove base	≤ 6,3	≤ 1,6	
Groove flanks	≤ 15	≤ 3	

Standard dimensions

							max. radial extrusion gap s[1] (mm)		
øD H9 (mm)	ød h10 (mm)	L +0,2 (mm)	R (mm)	H (mm)	c (mm)	øOR (mm)	20 bar	100 bar	250 bar
≥ 10 – < 15	D – 4,9	2,2	0,4	2,0	2,5	1,78	0,35	0,22	0,13
≥ 15 – < 40	D – 7,5	3,2	0,6	3,0	3,5	2,62	0,5	0,30	0,16
≥ 40 – < 80	D – 11	4,2	1,0	3,9	4,5	3,53	0,6	0,34	0,18
≥ 80 – < 133	D – 15,5	6,3	1,3	5,9	5,0	5,33	0,75	0,40	0,21
≥ 133 – < 330	D – 21	8,1	1,8	7,6	6,0	7,00	0,85	0,45	0,24
≥ 330 – < 600	D – 24,5	8,1	1,8	7,6	8,0	7,00	1,0	0,53	0,28

[1]The 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]
HPU premium	NBR70	-30 – +100	1	250 bar (25 MPa)
HPU diet	NBR70	-20 – +110	1	250 bar (25 MPa)
HPU lubric	NBR70	-20 – +110	1,4	250 bar (25 MPa)
HPU taiga	MVQ70	-50 – +110	1	250 bar (25 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.