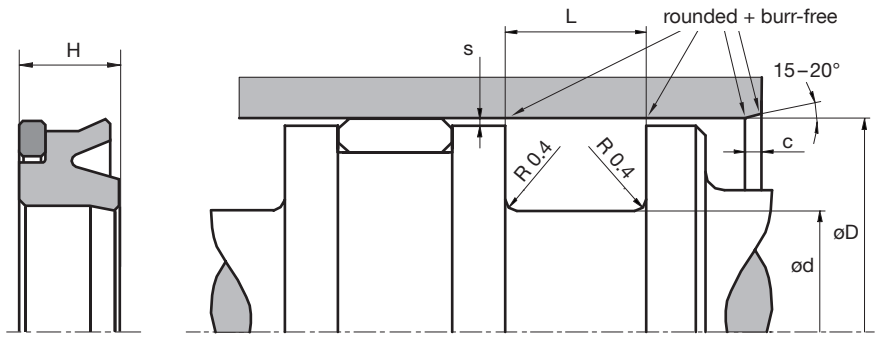
trygonal

Piston Seal TK02P

Hydraulics, single acting

Housing design

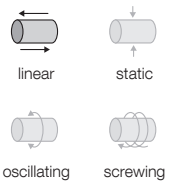


The dimensions s + c are dependent on the respective seal type.

Design

- Asymmetrical piston seal made of polyurethane with backup ring
- Suitable for large extrusion gaps and for higher pressure ranges
- Further characteristics according to TK01P
- Standard design with rectangular backup ring

Application



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%
Groove base	≤ 6,3	≤ 1,6	at a cutting depth of 0.5 x Rz
Groove flanks	≤ 15	≤ 3	starting from Cref = 0%

Standard dimensions

øD H9 (mm)	ød h10 (mm)	L +0,2 (mm)	H (mm)	c (mm)	max. radial extrusion gap s[1] (mm)			
					20 bar	100 bar	400 bar	700 bar
≥ 13 – ≤ 25	D – 8	6,0	5,8	3,5	0,80	0,80	0,30	0,04
> 25 – ≤ 50	D – 10	7,0	6,8	4,0	1,00	1,00	0,37	0,04
> 50 – ≤ 75	D – 12	8,0	7,8	4,5	1,25	1,24	0,42	0,05
> 75 – ≤ 150	D – 15	10,0	9,7	5,0	1,50	1,47	0,46	0,05
> 150 – ≤ 300	D – 20	12,0	11,7	6,0	2,00	1,77	0,54	0,06
> 300 – ≤ 500	D – 25	18,0	17,5	8,5	2,50	2,06	0,62	0,06
> 500 – ≤ 750	D – 30	20,0	19,5	10,0	3,00	2,43	0,76	0,06
> 750	D – 40	26,0	25,3	13,0	3,00	2,43	0,73	0,06

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

Material and application parameters

Sealing element	Support ring	Temperature (°C)	max. sliding speed (m/s)	max. pressure[2]
HPU premium	POM/PA6G[3]	-30 – +100	0,5	700 bar (70 MPa)
HPU diet	POM/PA6G[3]	-20 – +100	0,5	700 bar (70 MPa)
HPU lubric	POM/PA6G[3]	-20 – +100	0,7	700 bar (70 MPa)
HPU taiga	POM/PA6G[3]	-40 – +100	0,5	700 bar (70 MPa)

[2] Pressure values as a function of the gap dimension. [3] ≤ ø280mm: POM ; > ø280mm: PA6G

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.