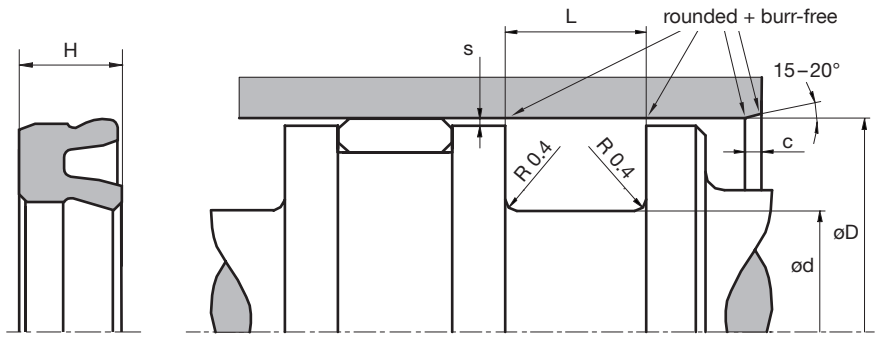
trygonal

Piston Seal TK05P

Pneumatics, single acting

Housing design



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

Design

- Asymmetrical Polyurethane piston seal
- Extremely wear resistant
- Suitable for oiled and dry pneumatics applications
- Special sealing lip contour for initial lubrication for stick-slip free operation

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

øD H9 (mm)	ød h10 (mm)	L +0,2 (mm)	H (mm)	c (mm)	s[1] (mm)
≥ 13 – ≤ 25	D – 8	6,0	5,4	3,5	0,33
> 25 – ≤ 50	D – 10	7,0	6,3	4,0	0,37
> 50 – ≤ 75	D – 12	8,0	7,3	4,5	0,42
> 75 – ≤ 150	D – 15	10,0	9,1	5,0	0,46
> 150 – ≤ 300	D – 20	12,0	10,9	6,0	0,54
> 300 – ≤ 500	D – 25	18,0	16,4	8,5	0,61
> 500 – ≤ 750	D – 30	20,0	18,2	10,0	0,67
> 750	D – 40	26,0	23,7	13,0	0,67

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

Material and application parameters

Sealing element	Temperature (°C)	max. sliding speed (m/s)	max. pressure[2]
HPU premium	-30 – +110	1	25 bar (2,5 MPa)
HPU diet	-20 – +110	1	25 bar (2,5 MPa)
HPU lubric	-50 – +110	2	25 bar (2,5 MPa)
HPU taiga	-30 – +110	1	25 bar (2,5 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.