

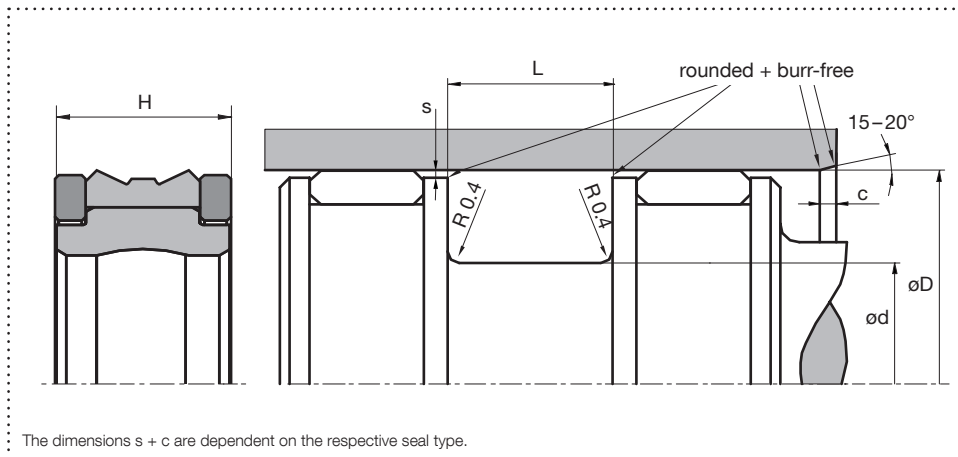


trygonal

# Piston Seal TK23D

## Hydraulics, double acting

### Housing design



### Design

- Preload element supported  
Compact piston seal with integrated support ring
- Suitable for very high pressure ranges
- Excellent static and dynamic sealing effect
- Additional guide elements required

### Application



linear



static

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 h9 (mm)	L + 0,2 (mm)	H (mm)	c (mm)	s <sup>1</sup> (mm)
≥ 20 – < 50	D – 10	12,5	11,2	4	0,4
≥ 50 – < 80	D – 15	20	17,9	5	0,4
≥ 80 – < 150	D – 20	25	22,4	6	0,4
≥ 150 – < 400	D – 25	32	28,7	8,5	0,4
≥ 400 – ≤ 600	D – 30	36	32,3	10	0,4

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

### Material and application parameters

Sealing element	Preload element	Support ring	Temperature (°C)	max. sliding speed (m/s)	max. pressure <sup>2</sup>
HPU premium	NBR standard	POM/PA6G <sup>3</sup>	-30 – +100	0,5	400 bar (40 MPa)
HPU diet	NBR standard	POM/PA6G <sup>3</sup>	-20 – +100	0,5	400 bar (40 MPa)
HPU lubric	NBR standard	POM/PA6G <sup>3</sup>	-20 – +100	0,7	400 bar (40 MPa)
HPU taiga	MVQ diet we	POM/PA6G <sup>3</sup>	-40 – +100	0,5	400 bar (40 MPa)

<sup>2</sup> Pressure values as a function of the gap dimension. <sup>3</sup> ≤ 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.