

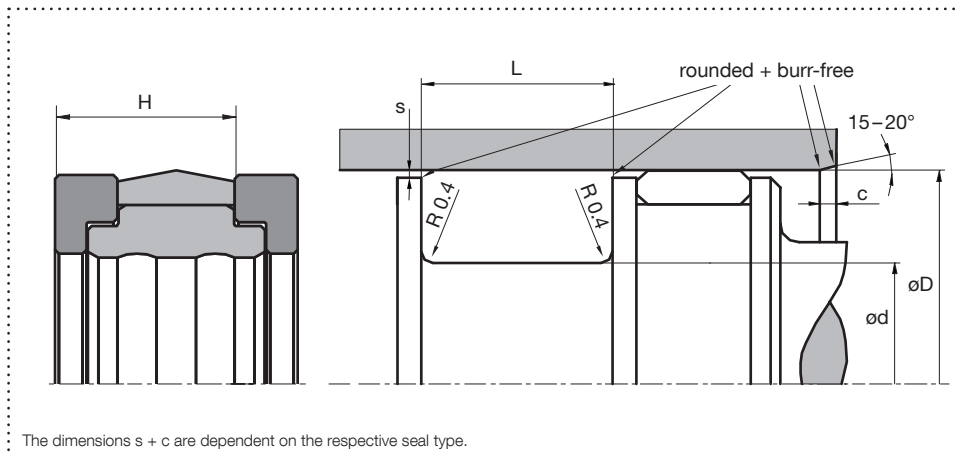


trygonal

# Piston Seal TK23H

## Hydraulics, double acting

### Housing design



### Design

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

### Application



linear



static

Brightened symbols:  
Seal only for limited use.  
Please contact us.

### Surface finish

Roughness	R <sub>tmax</sub> (µm)	R <sub>a</sub> (µm)	Material portion
Sliding surface	≤ 2,5	0,1 – 0,5	Ratio contact area: 50 – 95% at a cutting depth of 0.5 x R <sub>z</sub> starting from C <sub>ref</sub> = 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	0,3	1500 bar (150 MPa)
HPU diet	NBR standard	POM/PA6G <sup>3</sup>	-20 – +100	0,3	1500 bar (150 MPa)
HPU lubric	NBR standard	POM/PA6G <sup>3</sup>	-20 – +100	0,4	1500 bar (150 MPa)
HPU taiga	MVQ diet we	POM/PA6G <sup>3</sup>	-40 – +100	0,3	1500 bar (150 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.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.