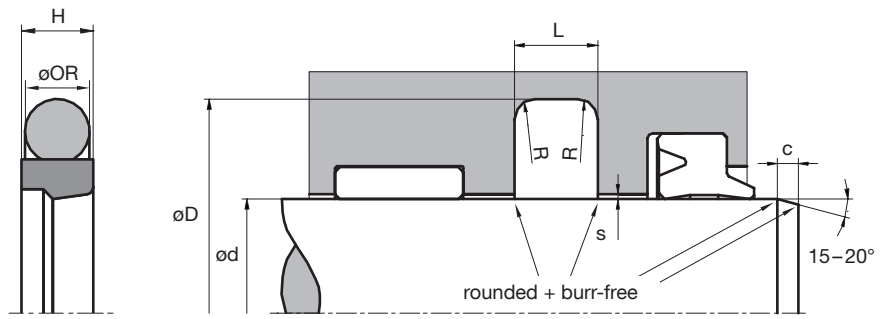
trygonal

Rod Seal TS09P

Hydraulics, single acting

Housing design



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

Design

- O-ring supported HPU sealing element; single acting
- Excellent frictional properties; for low and high speeds
- In combination with double wiper TA11 or rod seal TS09E
- Very good suitability for pressure surges; excellent sealing behaviour

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%
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 f8 (mm)	øD H10 (mm)	L +0,2 (mm)	R (mm)	H (mm)	c (mm)	øOR (mm)	max. radial extrusion gap s[1] (mm)		
							100 bar	160 bar	250 bar
> 4 – ≤ 8	d + 4,9	2,2	0,4	2,0	2,5	1,78	0,30	0,25	0,20
> 8 – ≤ 19	d + 7,3	3,2	0,6	3,0	3,5	2,62	0,40	0,30	0,25
> 19 – ≤ 38	d + 10,7	4,2	1,0	4,0	4,5	3,53	0,50	0,35	0,25
> 38 – ≤ 200	d + 15,1	6,3	1,3	6,1	5,0	5,33	0,50	0,40	0,30
> 200 – ≤ 256	d + 20,5	8,1	1,8	7,9	6,0	7,00	0,70	0,50	0,35
> 256 – ≤ 600	d + 24,0	8,1	1,8	7,9	8,0	7,00	0,70	0,50	0,35

[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 – +100	1	250 bar (25 MPa)
HPU lubric	NBR70	-20 – +100	1,4	250 bar (25 MPa)
HPU taiga	NBR70	-30 – +100	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.