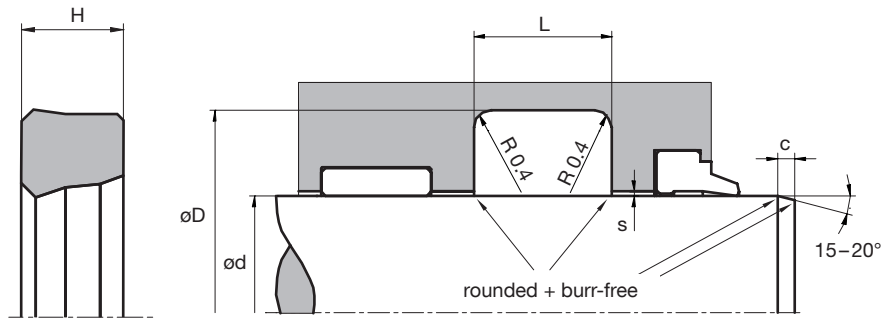
trygonal

Rod Seal TS08R

Hydraulics, single acting

Housing design



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

Design

- Asymmetrical compact rubber-based rod seal without groove
- Tight fit on the outer diameter for stable hold in housing design
- Use with highly viscous liquids and small installation spaces
- Material adaptation possibilities for various applications

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%
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)	H (mm)	c (mm)	max. radial extrusion gap s[1] (mm)		
					20 bar	100 bar	160 bar
≥ 5 – ≤ 25	d + 8	6,3	6,1	3,5	0,23	0,16	0,14
> 25 – ≤ 50	d + 10	8,0	7,8	4,0	0,26	0,19	0,17
> 50 – ≤ 150	d + 15	10,0	9,7	5,0	0,31	0,24	0,22
> 150 – ≤ 300	d + 20	14,0	13,6	6,0	0,34	0,27	0,25
> 300 – ≤ 500	d + 25	17,0	16,5	8,5	0,37	0,30	0,29
> 500 – ≤ 600	d + 30	25,0	24,3	10,0	0,40	0,34	0,32

[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]
NBR standard	-30 – +100	0,3	160 bar (16 MPa)
FPM diet br	-20 – +200	0,3	160 bar (16 MPa)
EPDM spring	-50 – +150	0,3	160 bar (16 MPa)
HNBR diet	-25 – +150	0,3	160 bar (16 MPa)
AFLAS® standard	-10 – +200	0,3	160 bar (16 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.