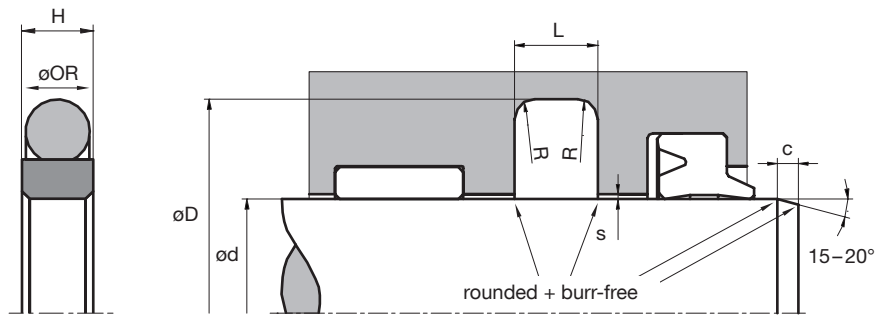
trygonal

Rod Seal TS09D/F

Hydraulics, double acting

Housing design

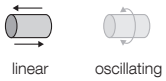


The dimensions s + c are dependent on the respective seal type.

Design

- O-ring supported PTFE sealing element, double acting
- Excellent frictional properties; for low and high speeds
- In combination with double wiper TA11 or rod seal TS01P
- Very good suitability for pressure surges

Application



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

Surface finish

Roughness	Rtmax (µm)	Ra (µm)	Material portion
Sliding surface	≤ 2	0,05 – 0,3	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 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	200 bar	400 bar	600 bar
> 4 – ≤ 8	d + 4,9	2,2	0,4	2,0	2,5	1,78	0,30	0,20	0,15	0,05
> 8 – ≤ 19	d + 7,3	3,2	0,6	3,0	3,5	2,62	0,40	0,25	0,15	0,05
> 19 – ≤ 38	d + 10,7	4,2	1,0	4,0	4,5	3,53	0,40	0,25	0,20	0,10
> 38 – ≤ 200	d + 15,1	6,3	1,3	6,1	5,0	5,33	0,50	0,30	0,20	0,10
> 200 – ≤ 256	d + 20,5	8,1	1,8	7,9	6,0	7,00	0,60	0,35	0,25	0,15
> 256 – ≤ 650	d + 24,0	8,1	1,8	7,9	8,0	7,00	0,60	0,35	0,25	0,15
> 650 – ≤ 1000	d + 27,3	9,5	2,5	9,1	10,0	8,40	0,70	0,50	0,30	0,20
> 1000 – ≤ 2000	d + 38,0	13,8	3,0	13,3	12,0	12,00	1,00	0,70	0,60	0,30

[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]
PTFE glass wear	NBR70	-30 – +100	10	600 bar (60 MPa)
PTFE bronze wear	FPM75	-20 – +200	10	600 bar (60 MPa)
PTFE carbon slide	FPM75	-20 – +200	10	600 bar (60 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.