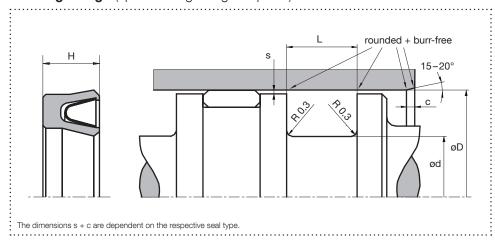


Piston Seal TK19F

PTFE-Piston Seal, single acting

Housing design (split housing design required)



Surface finish

Roughness	Rtmax (µm)	Ra (µm)	Material portion
Sliding surface	≤ 2	0,05 – 0,3	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%

Design

- Spring supported asymmetrical piston seal made of PTFE
- For low friction and good dry running properties
- Excellent chemical and thermal resistance
- Application in the food, pharmaceutical and chemical industry

Application Application Inear static rotating oscillating screwing Brightened symbols: Seal only for limited use. Please contact us.

Standard dimensions

					max. ra	ıdial extru	ısion gap	s¹ (mm)	
øD H9 (mm)	ød h10 (mm)	L +0,2 (mm)	H (mm)	c (mm)	20 bar	100 bar	200 bar	300 bar	400 bar
≥ 10 - < 18	D - 4,5	3,6	0,3	1,13	0,25	0,12	0,10	0,08	0,07
≥ 18 - < 50	D - 6,2	4,8	0,3	1,55	0,35	0,17	0,12	0,1	0,08
≥ 50 - < 120	D – 9,4	7,1	0,3	2,35	0,45	0,22	0,17	0,12	0,1
≥ 120 - < 630	D - 12,2	9,5	0,3	3,05	0,6	0,31	0,25	0,15	0,12
≥ 630 - < 1600	D – 19	15	0,3	4,75	0,87	0,48	0,38	0,28	0,2

 $^{^{1}}$ The specified extrusion gap is valid up to 70 $^{\circ}$ C, higher temperatures require lower values.

Material and application parameters

Sealing element	: Spring	: Temp. (°C)	: max. sliding speed (m/s)	i (m/s) max. pressure²		
PTFE virgin diet	1.4310	: -200 - +260	15	200 bar (20 MPa)		
PTFE glass wear	1.4310	-200 - +260	15	400 bar (40 MPa)		
PTFE bronze wear	1.4310	-200 - +260	15	400 bar (40 MPa)		
PTFE carbon slide	1.4310	-200 - +260	15	400 bar (40 MPa)		
UHMWPE diet	1.4310	-200 - +80	15	200 bar (20 MPa)		

 $^{^{\}rm 2}$ 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.