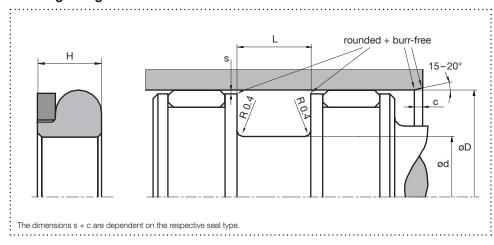


Piston Seal TK20E

February 2012

Hydraulics, single acting

Housing design



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%

Design

- Single acting, space-saving compact piston seal
- Suitable for standard O-ring installation spaces
- Integrated backup ring for high pressures
- O-ring replacement for dynamic applications

Application



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

Standard dimensions

øD H9 (mm)			:	:	;	:	
static	dynamic	ød h9 (mm)	L +0,2 (mm)	H (mm)	c (mm)	s¹ (mm)	
≥ 8 - < 100	-	D - 2,7	3,5	3,1	2,0	f8/H8	
≥ 100 - < 150	≥ 11 - < 20	D - 4,36	5	4,5	2,0	f8/H8	
≥ 150 - < 250	≥ 20 - < 40	D - 6,00	5,9	5,3	3,0	f8/H8	
≥ 250 - < 400	≥ 40 - < 100	D - 9,06	8,4	7,5	3,5	f8/H8	
≥ 400 - < 600	≥ 100 - < 300	D – 11,88	10,8	9,7	4,5	f8/H8	
≥ 600	≥ 300 - ≤ 600	D – 17	15	13,5	4,5	f8/H8	

¹The specified extrusion gap is valid up to 70 °C, higher temperatures require lower values.

Material and application parameters

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Sealing element	Support ring	Temp. (°C)	max. sliding speed (m/s)	max. pressure²
NBR standard	:POM/PA6G3	-30 - +100	0,5	700 bar (70 MPa)
HNBR diet	POM/PA6G ³	-25 - +100	0,5	700 bar (70 MPa)
FPM diet br	POM/PA6G ³	-20 - +100	0,5	700 bar (70 MPa)
HNBR diet	POM/PA6G ³	-25 - +150	0,5	700 bar (70 MPa)

² Pressure values as a function of the gap dimension. ³ ≤ 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.