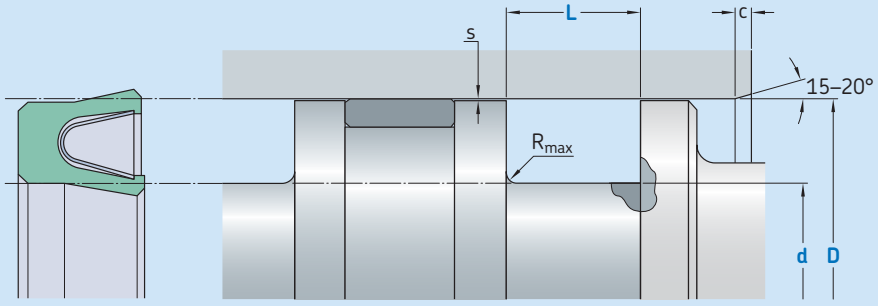
PISTON SEAL
SEAL HOUSING

K19-F



Ordering dimensions in **blue**

Surface roughness	R_{tmax}	R_a
Sliding surface	≤ 2 µm	0,05–0,2 µm
Bottom of groove	≤ 6,3 µm	≤ 1,6 µm
Groove face	≤ 15 µm	≤ 3 µm

Bearing area: 50–95% and a cutting depth of 0,5 R_z based on C_{ref} = 0%

Standard dimensions

D H9 over	D H9 incl.	d h10	L + 0,2	R_{max}	c	**Maximal radial extrusion gap** s* 20 bar	100 bar	200 bar	300 bar	400 bar
mm						mm				
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	**1 600**	D – 19	15	0,3	4,75	0,87	0,48	0,38	0,28	0,2

* Extrusion gap values shown above are valid for a temperature of 80 °C, higher temperatures require lower values.

Ordering example

Profile	**Piston seal K19-F**
D x d x L [mm]	**100 x 90,6 x 7,1**
Sealing material / Spring	**SKF Ecoflon 3 / 1.4310**

Operating parameters

Material Seal	Spring	Temperature from	 to	Speed[1] max	Pressure[2] max
–		°C		m/s	bar *(MPa)*
SKF Ecoflon 1	1.4310[3] 2.4711[4]	–200	+260	15	200 *(20)*
SKF Ecoflon 2 SKF Ecoflon 3 SKF Ecoflon 4					400 *(40)*
SKF Ecowear 1000			+90		200 *(20)*

IMPORTANT NOTE: The stated operating conditions represent general indications. It is recommended not to use all maximum values simultaneously.
[1] Surface speed limit values are valid only in the presence of a lubrication film.
[2] Pressure ratings depend on the size of the extrusion gap.
[3] Available for standard and x00 spring versions.
[4] Available for x00 spring versions.

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