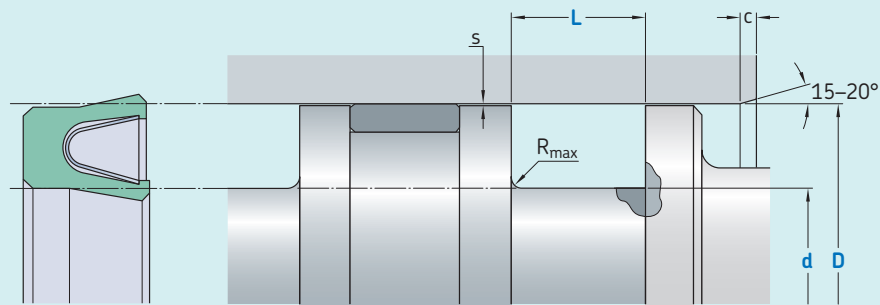


# K19-F



Ordering dimensions in **blue**

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

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

Standard dimensions						Maximal radial extrusion gap				
D	d	L	$R_{max}$	c	$s^*$					
H9	h10	+ 0,2				20 bar	100 bar	200 bar	300 bar	400 bar
over	incl.					mm				
<b>10</b>	<b>18</b>	D – 4,5	3,6	0,3	1,13	0,25	0,12	0,10	0,08	0,07
<b>18</b>	<b>50</b>	D – 6,2	4,8	0,3	1,55	0,35	0,17	0,12	0,10	0,08
<b>50</b>	<b>120</b>	D – 9,4	7,1	0,3	2,35	0,45	0,22	0,17	0,12	0,10
<b>120</b>	<b>630</b>	D – 12,2	9,5	0,3	3,05	0,60	0,31	0,25	0,15	0,12
<b>630</b>	<b>1 600</b>	D – 19,0	15,0	0,3	4,75	0,87	0,48	0,38	0,28	0,20






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

## Ordering example

Profile  
 D x d x L [mm]  
 Sealing material / Spring

Piston seal K19-F  
 100 x 90,6 x 7,1  
 SKF Ecoflon 3 / 1.4310

**Operating parameters**

Material Seal	Spring	Temperature		Speed <sup>1)</sup>	Pressure <sup>2)</sup>
		from	to	max	max
		°C		m/s	bar (MPa)
 SKF Ecoflon 1	1.431	-200	+260	15	200 (20)
 SKF Ecoflon 2	1.431	-200	+260	15	400 (40)
 SKF Ecoflon 3	1.431	-200	+260	15	400 (40)
 SKF Ecoflon 4	1.431	-200	+260	15	400 (40)
 SKF Ecowear 1000	1.431	-200	+90	15	200 (20)

IMPORTANT NOTE: The stated operating conditions represent general indications. It is recommended not to use all maximum values simultaneously.

<sup>1)</sup> Surface speed limit values are valid only in the presence of a lubrication film.

<sup>2)</sup> Pressure ratings depend on the size of the extrusion gap.

