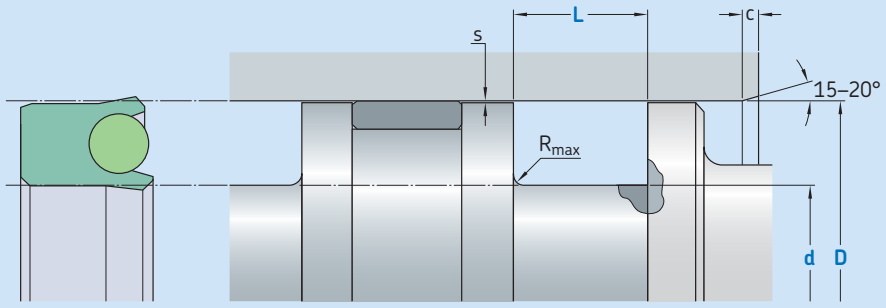
PISTON SEAL
SEAL HOUSING

K03-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	incl.	d h10	L + 0,2	R_{max}	c	**Maximal radial extrusion gap** s* 20 bar	100 bar	200 bar	400 bar
mm						mm			
13	**25**	D – 8	6,4	0,4	3,5	0,40	0,20	0,15	0,09
25	**50**	D – 10	8,5	0,4	4,0	0,45	0,22	0,17	0,10
50	**75**	D – 12	10,0	0,4	4,5	0,60	0,36	0,25	0,14
75	**150**	D – 15	12,3	0,4	5,0	0,75	0,40	0,33	0,18
150	**300**	D – 20	16,0	0,4	6	0,87	0,48	0,38	0,20
300	**500**	D – 25	19,8	0,4	8,5	0,87	0,48	0,38	0,20
500	**600**	D – 30	24,5	0,4	10,0	0,87	0,48	0,38	0,20

* Extrusion gap values shown above are valid for a temperature of 70 °C, higher temperatures require lower values.

Ordering example

Profile	**Piston seal K03-F**
D x d x L [mm]	**100 x 85 x 12,3**
Sealing material / Backup ring	**SKF Ecoflon 3 / FPM75**

Operating parameters

Material Seal	Back-up ring	Temperature from	 to	Speed[1] max	Pressure[2] max
–		°C		m/s	bar *(MPa)*
SKF Ecoflon 1	MVQ70	–55	+200	1,0	200 *(20)*
	NBR70	–30	+100		
SKF Ecoflon 2 SKF Ecoflon 3 SKF Ecoflon 4	EPDM70	–50	+150		400 *(40)*
	FPM75	–20	+200		
	MVQ70	–55			
	NBR70	–30	+100		
SKF Ecowear 1000	MVQ70	–55	+90	0,5	200 *(20)*
	NBR70	–30			

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.

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