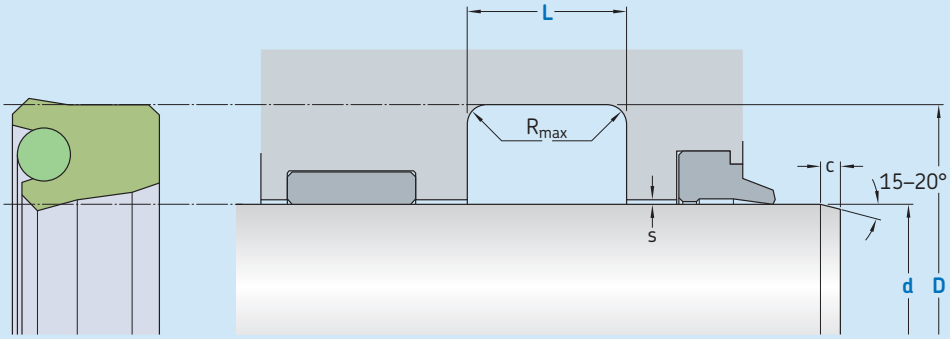
S03-P



Ordering dimensions in **blue**

Surface roughness	R_{tmax}	R_a
Sliding surface	≤ 2,5 µm	0,1–0,5 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						**maximal radial extrusion gap**			
d f8		D H10	L + 0,2	R_{max}	c	s*			
over	incl.					20 bar	100 bar	200 bar	400 bar
mm						mm			
5	**25**	d + 8	6,3	0,4	3,5	0,33	0,18	0,10	0,05
25	**50**	d + 10	8,0	0,4	4,0	0,37	0,23	0,15	0,10
50	**150**	d + 15	10,0	0,4	5,0	0,46	0,33	0,25	0,18
150	**300**	d + 20	14,0	0,4	6,0	0,54	0,38	0,33	0,25
300	**500**	d + 25	17,0	0,4	8,5	0,61	0,45	0,40	0,33
500	**600**	d + 30	25,0	0,4	10,0	0,67	0,50	0,45	0,40
600	**1 000**	d + 40	32,0	0,4	13,0	0,67	0,50	0,45	0,40
1 000	**1 600**	d + 50	40,0	0,4	15,0	0,80	0,60	0,50	0,40
1 600	**2 000**	d + 60	47,0	0,4	18,0	0,90	0,70	0,50	0,40
2 000	**2 500**	d + 80	62,0	0,4	20,0	0,90	0,70	0,50	0,40

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

Ordering example

Profile	**Rod seal S03-P**
d x D x L [mm]	**100 x 115 x 10**
Sealing material / Energizer	**ECOPUR / NBR 70**

Operating parameters

Material Seal	Energizer	**Temperature** from	to	**Speed**[1] max	**Pressure**[2] max
–		°C		m/s	bar *(MPa)*
ECOPUR	NBR70	–30	+100	0,5	400 *(40)*
H-ECOPUR		–20			
S-ECOPUR				0,7	
T-ECOPUR	MVQ70	–50	+110	0,5	
G-ECOPUR	NBR70	–30	+100		

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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