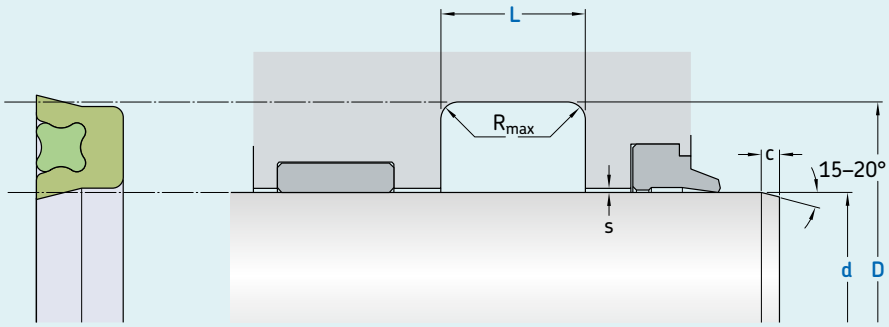
STD-P



Ordering dimensions in **blue**

Surface roughness	R_{tmax}	R_a
	µm	
Sliding surface	≤ 2.5	0.05–0.3
Bottom of groove	≤ 6.3	≤ 1.6
Groove face	≤ 15	≤ 3

Bearing area: 50–95% and a cutting depth of 0.5 R_z based on C_{ref} = 0%

Standard dimensions d f8 over	incl.	D H10	L + 0.2	R_{max}	c	**Maximal radial extrusion gap** $s^{1)}$ 20 bar	100 bar	200 bar	400 bar
mm						mm			
5	**25**	d + 8	4.4	0.4	3.5	0.33	0.17	0.11	0.05
25	**50**	d + 10	5.5	0.4	4.0	0.37	0.22	0.16	0.10
50	**150**	d + 15	8.3	0.4	5.0	0.46	0.31	0.25	0.19
150	**300**	d + 20	11.0	0.4	6.0	0.54	0.39	0.32	0.26
300	**500**	d + 25	13.8	0.4	8.5	0.61	0.46	0.39	0.33
500	**600**	d + 30	16.5	0.4	10.0	0.67	0.52	0.45	0.39
600	**1 250**	d + 40	22.0	0.4	13.0	0.67	0.52	0.45	0.40

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

Ordering example

Profile	**Rod seal STD-P**
d x D x L [mm]	**100 x 115 x 8.3**
Sealing material / Energizer	**ECOPUR / NBR 70**

STP-P

Operating parameters

Material		Temperature		Speed[1]	Pressure[2]
Seal	Energizer	from	to	max	max
		°C		m/s	bar *(MPa)*
ECOPUR	NBR 70	–30	+100	0.5	400 *(40)*
ECOPUR LD	NBR 70	–30	+100	0.5	400 *(40)*
G-ECOPUR	NBR 70	–30	+100	0.5	400 *(40)*
H-ECOPUR	NBR 70	–20	+100	0.5	400 *(40)*
S-ECOPUR	NBR 70	–20	+100	0.5	400 *(40)*

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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