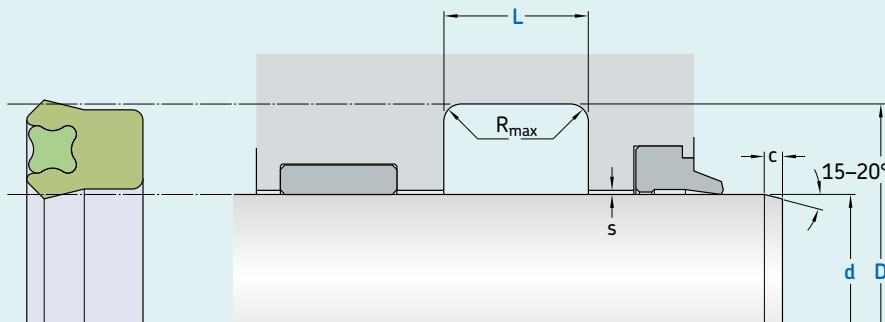


PTB-P

Ordering dimensions in **blue**

Surface roughness	$R_{t\max}$	R_a
	μm	

Sliding surface ≤ 2.5 $0.05\text{--}0.3$ **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 $C_{ref} = 0\%$

d f8 over	D H10 incl.	L $+0.2$	$R_{t\max}$	c	Maximal radial extrusion gap			
					20 bar	100 bar	200 bar	400 bar
mm								
5	25	d + 8	6.3	0.4	3.5	0.33	0.17	0.11
25	50	d + 10	8.0	0.4	4.0	0.37	0.22	0.16
50	150	d + 15	10.0	0.4	5.0	0.46	0.31	0.25
150	300	d + 20	14.0	0.4	6.0	0.54	0.39	0.32
300	500	d + 25	17.0	0.4	8.5	0.61	0.46	0.39
500	600	d + 30	25.0	0.4	10.0	0.67	0.52	0.45
600	1000	d + 40	32.0	0.4	13.0	0.67	0.52	0.45
1000	1600	d + 50	40.0	0.4	15.0	0.80	0.60	0.50

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

Profile

d x D x L [mm]

Sealing material / Energizer

Rod seal PTB-P**100 x 115 x 10****ECOPUR / NBR 70**

Operating parameters

Material Seal	Energizer	Temperature		Speed ¹⁾	Pressure ²⁾
		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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