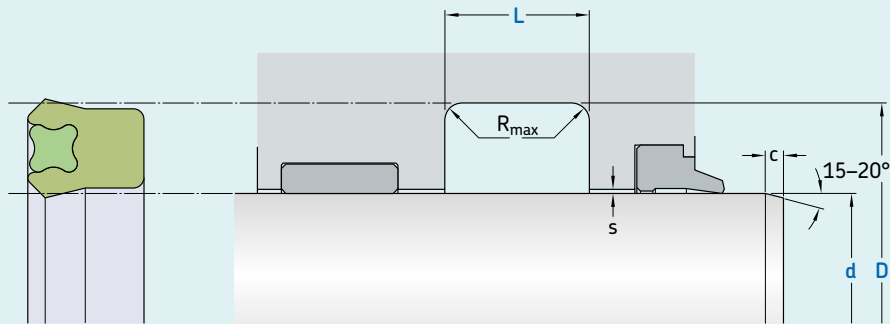


# PTB-P



Ordering dimensions in **blue**

Surface roughness	$R_{tmax}$	$R_a$
	$\mu m$	
<b>Sliding surface</b>	$\leq 2.5$	0.05–0.3
<b>Bottom of groove</b>	$\leq 6.3$	$\leq 1.6$
<b>Groove face</b>	$\leq 15$	$\leq 3$

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	$s^1)$	20 bar	100 bar	200 bar	400 bar
f8	H10	+ 0.2							
over	incl.								
mm						mm			
<b>5</b>	<b>25</b>	$d + 8$	6.3	0.4	3.5	0.33	0.17	0.11	0.05
<b>25</b>	<b>50</b>	$d + 10$	8.0	0.4	4.0	0.37	0.22	0.16	0.10
<b>50</b>	<b>150</b>	$d + 15$	10.0	0.4	5.0	0.46	0.31	0.25	0.19
<b>150</b>	<b>300</b>	$d + 20$	14.0	0.4	6.0	0.54	0.39	0.32	0.26
<b>300</b>	<b>500</b>	$d + 25$	17.0	0.4	8.5	0.61	0.46	0.39	0.33
<b>500</b>	<b>600</b>	$d + 30$	25.0	0.4	10.0	0.67	0.52	0.45	0.39
<b>600</b>	<b>1000</b>	$d + 40$	32.0	0.4	13.0	0.67	0.52	0.45	0.40
<b>1000</b>	<b>1600</b>	$d + 50$	40.0	0.4	15.0	0.80	0.60	0.50	0.40

<sup>1)</sup> 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 <sup>1)</sup>	Pressure <sup>2)</sup>
		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.

<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.