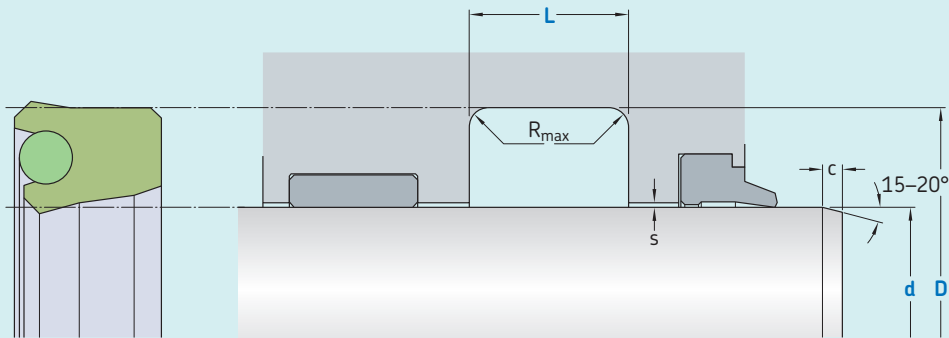


# S03-P



Ordering dimensions in **blue**

Surface roughness	R <sub>tmax</sub>	R <sub>a</sub>
	μm	
<b>Sliding surface</b>	≤ 2,5	0,05–0,3
<b>Bottom of groove</b>	≤ 6,3	≤ 1,6
<b>Groove face</b>	≤ 15	≤ 3

Bearing area: 50–95% and a cutting depth of 0,5 R<sub>z</sub> based on C<sub>ref</sub> = 0%

Standard dimensions						Maximal radial extrusion gap			
d	D	L	R <sub>max</sub>	c	s*	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	0,18	0,10	0,05
<b>25</b>	<b>50</b>	d + 10	8,0	0,4	4,0	0,37	0,23	0,15	0,10
<b>50</b>	<b>150</b>	d + 15	10,0	0,4	5,0	0,46	0,33	0,25	0,18
<b>150</b>	<b>300</b>	d + 20	14,0	0,4	6,0	0,54	0,38	0,33	0,25
<b>300</b>	<b>500</b>	d + 25	17,0	0,4	8,5	0,61	0,45	0,40	0,33
<b>500</b>	<b>600</b>	d + 30	25,0	0,4	10,0	0,67	0,50	0,45	0,40
<b>600</b>	<b>1 000</b>	d + 40	32,0	0,4	13,0	0,67	0,50	0,45	0,40
<b>1 000</b>	<b>1 600</b>	d + 50	40,0	0,4	15,0	0,80	0,60	0,50	0,40
<b>1 600</b>	<b>2 000</b>	d + 60	47,0	0,4	18,0	0,90	0,70	0,50	0,40
<b>2 000</b>	<b>2 500</b>	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  
d x D x L [mm]  
Sealing material / Energizer

Rod seal S03-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)
■ T-ECOPUR	MVQ 70	-50	+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.