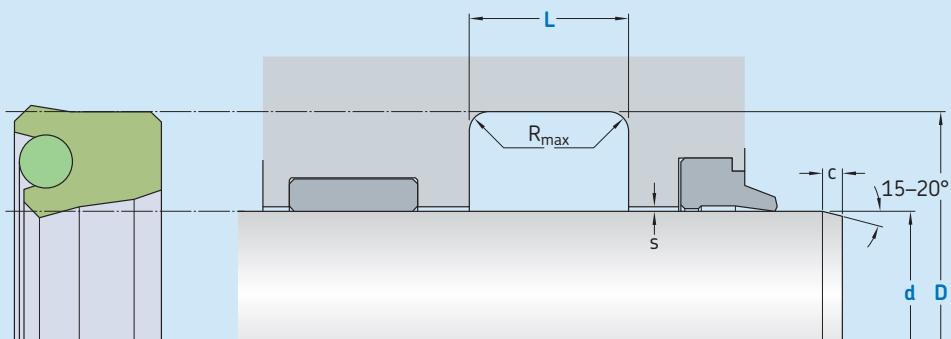


# S03-P



Ordering dimensions in **blue**

Surface roughness	$R_{t\max}$	$R_a$
<b>Sliding surface</b>	$\leq 2,5 \mu\text{m}$	$0,1\text{--}0,5 \mu\text{m}$
<b>Bottom of groove</b>	$\leq 6,3 \mu\text{m}$	$\leq 1,6 \mu\text{m}$
<b>Groove face</b>	$\leq 15 \mu\text{m}$	$\leq 3 \mu\text{m}$

Bearing area: 50–95% and a cutting depth of  $0,5 R_z$  based on  $C_{ref} = 0\%$

Standard dimensions			$L$ $+ 0,2$	$R_{t\max}$	$c$	maximal radial extrusion gap			
$d$ f8	$D$ H10	over incl.				20 bar	100 bar	200 bar	400 bar
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

$d \times D \times L$  [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> max	Pressure <sup>2)</sup> max
		from	to		
-		°C		m/s	bar (MPa)
■ ECOPUR		-30			
■ H-ECOPUR	NBR70	-20	+100	0,5	
■ S-ECOPUR				0,7	400 (40)
■ 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.

<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.

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