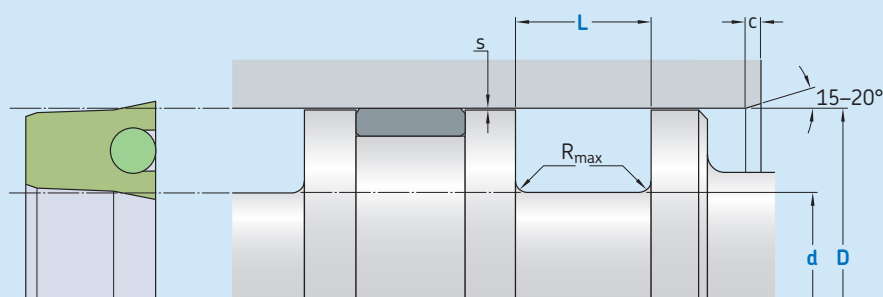


# K21-P



Ordering dimensions in **blue**

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

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

## Standard dimensions

D H9 over	d h10 incl.	L + 0,2	$R_{max}$	c	maximal radial extrusion gap $s^*$				
					20 bar	100 bar	200 bar	400 bar	
mm					mm				
<b>13</b>	<b>25</b>	D - 8	6,0	0,4	3,5	0,33	0,18	0,11	0,05
<b>25</b>	<b>50</b>	D - 10	7,0	0,4	4,0	0,37	0,22	0,16	0,10
<b>50</b>	<b>75</b>	D - 12	8,0	0,4	4,5	0,42	0,27	0,20	0,14
<b>75</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	12,0	0,4	6,0	0,54	0,39	0,32	0,26
<b>300</b>	<b>500</b>	D - 25	18,0	0,4	8,5	0,61	0,46	0,39	0,33
<b>500</b>	<b>600</b>	D - 30	20,0	0,4	10,0	0,67	0,52	0,45	0,39

\* 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

Piston seal K21-P  
100 x 85 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		-30		0,5	400 (40)
■ H-ECOPUR	NBR 70	-20	+100		
■ S-ECOPUR		-20		0,7	
■ T-ECOPUR	MVQ70	-50	+110	0,5	

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.

