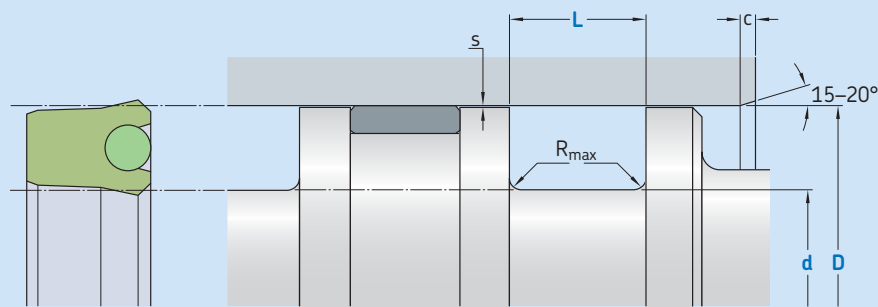


# K07-P



Ordering dimensions in **blue**

Surface roughness	$R_{tmax}$	$R_a$
<b>Sliding surface</b>	$\leq 2,5 \mu\text{m}$	$0,05\text{--}0,2 \mu\text{m}$
<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						Maximal radial extrusion gap			
D	H9	d	L	$R_{max}$	c	$s^*$			
over	incl.	h10	+ 0,2			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
<b>600</b>	<b>1000</b>	D – 40	26,0	0,4	13,0	0,67	0,52	0,45	0,39
<b>1000</b>	<b>1600</b>	D – 50	32,0	0,4	15,0	0,80	0,60	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

Piston seal K07-P  
**100 x 85 x 10**  
ECOPUR / NBR70

## Operating parameters

Material Seal	Energizer	Temperature		Speed <sup>1)</sup>	Pressure <sup>2)</sup>
		from	to	max	max
		°C		m/s	bar (MPa)
■ ECOPUR					
■ ECOPUR LD		-30		0,5	
■ G-ECOPUR	NBR70		+100		400 (40)
■ H-ECOPUR		-20			
■ S-ECOPUR				0,7	
■ T-ECOPUR	MVQ70	-50	+100	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.