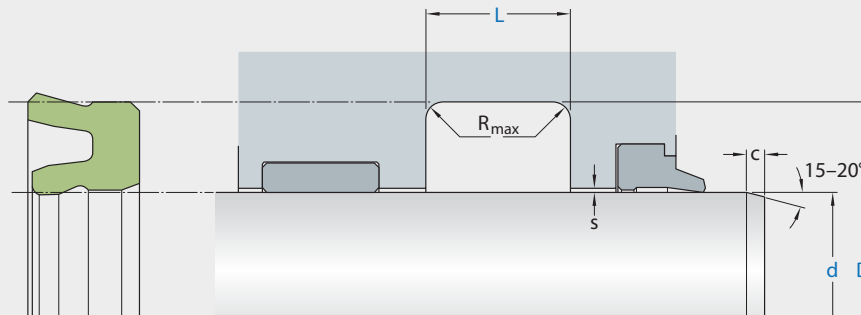


## S05-P



Ordering dimensions in blue

Surface roughness	$R_{tmax}$	$R_a$
Sliding surface	$\leq 2,5 \mu m$	$0,05-0,3 \mu m$
Bottom of groove	$\leq 6,3 \mu m$	$\leq 1,6 \mu m$
Groove face	$\leq 15 \mu m$	$\leq 3 \mu m$

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

Standard dimensions		D	L	$R_{max}$	c	$s^*$
d	f8	H10	+0,2			
over	incl.					
mm						
5	25	d + 8	6,3	0,4	3,5	0,33
25	50	d + 10	8,0	0,4	4,0	0,37
50	150	d + 12	9,0	0,4	5,0	0,46
150	300	d + 16	14,0	0,4	6,0	0,54
300	500	d + 20	17,0	0,4	8,5	0,61
500	700	d + 24	25,0	0,4	10,0	0,67
700	1 000	d + 30	32,0	0,4	13,0	0,67
1 000		d + 40	32,0	0,4	13,0	0,67

### application



*not bolded symbols; please consult our technical for application limitations*

\* Extrusion gap values shown above are valid for a temperature of 70 °C, higher temperatures require lower values.

## operating parameters & material

diameter range: up to 600 mm

material	temperature	max. surface speed	max. pressure <sup>1</sup>	hydrolysis	dry running	wear resistance
ECOPUR	-30 °C ... +110 °C	1 m/s	25 bar (2,5 MPa)	-	+	++
H-ECOPUR	-20 °C ... +110 °C	1 m/s	25 bar (2,5 MPa)	++	+	++
T-ECOPUR	-50 °C ... +110 °C	1 m/s	25 bar (2,5 MPa)	-	+	++
S-ECOPUR	-30 °C ... +110 °C	1 m/s	25 bar (2,5 MPa)	++	+	++
G-ECOPUR	-20 °C ... +110 °C	2 m/s	25 bar (2,5 MPa)	++	++	++

the stated operation conditions represent general indications. it is recommended not to use all maximum values simultaneously. surface speed limits apply only to the presence of adequate lubrication film.

++ ... particularly suitable                      o ... conditional suitable  
 + ... suitable                                              - ... not suitable

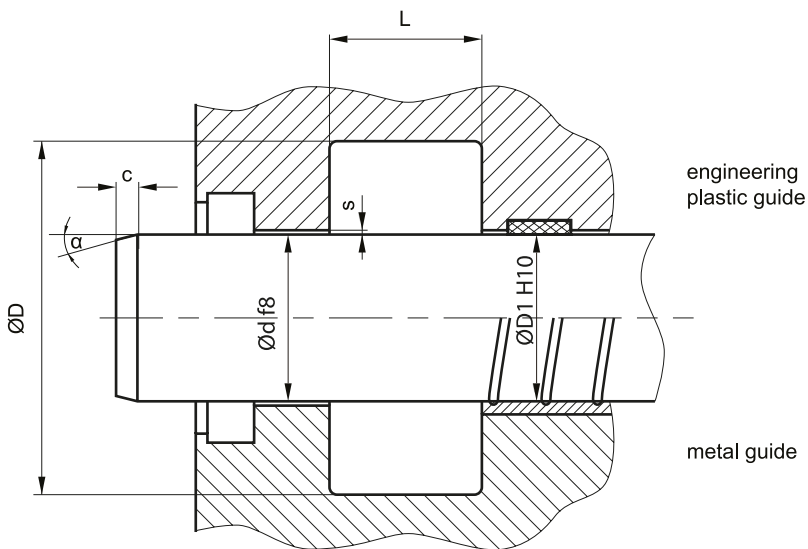
for detailed information regarding chemical resistance please refer to our „list of resistance“. for increased chemical and thermal resistance rubber materials are to be preferred, attention should be paid to restrictions for wear resistance.

## mode of installation

for inside diameters of 25 mm or more, and dependant on the radial cross section (cs), the seal can be snapped into the housing.

Ød	type of installation
≤ 6•cs	open mounting space required
> 6•cs ..... ≤ 10•cs	snap mounting with tool
> 10•cs	snap mounting by hand

## recommended mounting space:



## insertion chamfer:

in order to avoid damage to the rod seal during installation, the piston rod is to be chamfered and rounded as shown in the "recommended mounting space" drawing. the size of chamfer depends on the seal type and profile width.

cs (mm)	c (mm)	
	α = 15° ... 20°	α = 20° ... 30°
4	3,5	2
5	4	2,5
6	4,5	3
7,5	5	4
10	6	5
12,5	8,5	6,5
15	10	7,5
20	13	10