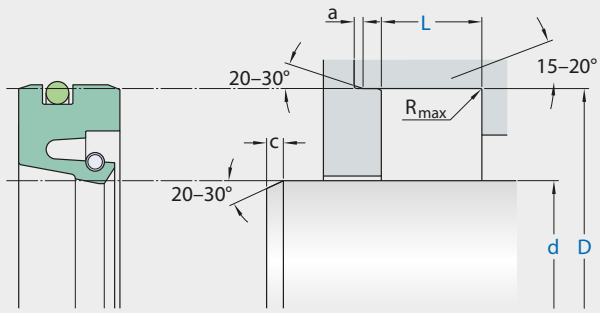
R02-P



Ordering dimensions in blue

Surface roughness	R_{tmax}	R_a
Sliding surface	≤ 2 µm	0,05–0,3 µm
Bottom of groove	≤ 6,3 µm	≤ 1,6 µm
Groove face	≤ 15 µm	≤ 3 µm

Hardness: On the surface min 55 HRC, hardened depth > 0,3 mm.
Bearing area: 50–95% and a cutting depth of 0,5 R_z based on C_{ref} = 0%

Standard dimensions

d h11 Rotating application over	incl.	d h11 Pivoting application over	incl.	D H8	L –0,1	c	a	R_{max}
mm								
10	66	10	33	d + 12	7,0	3	1,25	0,4
66	110	33	55	d + 15	9,0	3,5	1,5	0,4
110	280	55	140	d + 20	10,0	5	2	0,4
280	400	140	200	d + 25	12,5	6,5	2,5	0,8
400	600	200	400	d + 30	15,0	7,5	3	0,8
		400	600	d + 40	20,0	9	3,5	0,8

application

operating parameters & material

diameter range: up to 600 mm

material		temperature	max. surface speed	max. pressure [1]
sealing element	back-up ring			
ECOPUR	Ecotal/Ecomid [2]	-30 °C ... +80 °C	5 m/s	0,5 bar (7 psi)
H-ECOPUR	Ecotal/Ecomid [2]	-20 °C ... +80 °C	5 m/s	0,5 bar (7 psi)
S-ECOPUR	Ecotal/Ecomid [2]	-20 °C ... +80 °C	6 m/s	0,5 bar (7 psi)
T-ECOPUR	Ecotal/Ecomid [2]	-40 °C ... +80 °C	5 m/s	0,5 bar (7 psi)
G-ECOPUR	Ecotal/Ecomid [2]	-30 °C ... +80 °C	5 m/s	0,5 bar (7 psi)

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.

[1] pressure ratings are dependent on the size of the extrusion gap.

[2] Ecotal up to ø260 mm, Ecomid above ø260 mm.

surface quality

surface roughness	Rtmax [µm]	Ra [µm]
shaft	≤6,3	≤0,2-0,8
bottom of groove	≤25	≤1,6-6,3

tolerance recommendation

seal housing tolerances	
Ød	f8
ØD	H8
ØD1	H11