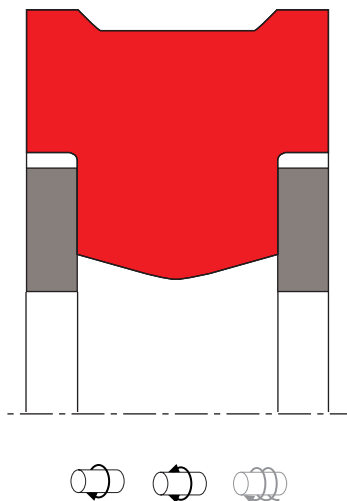


SEAL SPEC

R03-P



description

rotary seal with integrated backup rings for pivoting motion in hydraulic systems. interference fit on outside diameter maintains stable fit in the housing, backup rings permit larger extrusion gap / higher pressure. mainly used for rotary pivots on excavators.

category of profile

machined product only

double acting rotary shaft seal

the R03-P seal is designed for use as a rotary shaft seal

operating parameter & material

sealing element	material energizer	back-up ring	temperature	max surface speed	max pressure ¹
PU	-	POM / PA ²	-30 °C ... +100 °C	0,2 m/s	400 bar (40 MPa)
HPU	-	POM / PA ²	-20 °C ... +100 °C	0,2 m/s	400 bar (40 MPa)
SPU	-	POM / PA ²	-20 °C ... +100 °C	0,3 m/s	400 bar (40 MPa)
LPU	-	POM / PA ²	-40 °C ... +100 °C	0,2 m/s	400 bar (40 MPa)
GPU	-	POM / PA ²	-30 °C ... +100 °C	0,2 m/s	400 bar (40 MPa)

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

² POM up to ø260 mm, PA above ø260 mm

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.

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	≤3	≤0,3
bottom of groove	≤10	≤1,8
groove face	≤16	≤3

tolerance recommendation

seal housing tolerance	
Ød	h7
ØD	H8

seal & housing recommendations

please note that we are able to produce those profiles to your specific need or any non standard housing. for detail measurements, please see seal-mart catalog..

