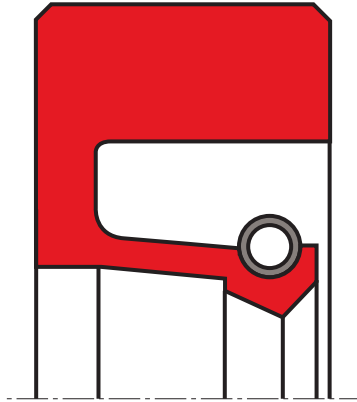


oil seal R01-AF

seal spec



description

spring loaded lip seal with solid outer section for axially open housings with clamping plate fixation. mainly used for rolling mills, large gear mechanisms in heavy duty machinery, for shipbuilding industry and civil engineering.

application



category of profile

machined only

single acting rotary shaft seal

operating parameters & material

diameter range: up to 600 mm

material	temperature	max. surface	max. pressure ¹
s-mart PU	-30 °C ... +110 °C	5 m/s	0,5 bar (7 psi)
s-mart HPU	-20 °C ... +110 °C	5 m/s	0,5 bar (7 psi)
s-mart SPU	-20 °C ... +110 °C	6 m/s	0,5 bar (7 psi)
s-mart LTPU	-50 °C ... +110 °C	5 m/s	0,5 bar (7 psi)
s-mart GPU	-30 °C ... +110 °C	5 m/s	0,5 bar (7 psi)
s-mart NBR	-30 °C ... +100 °C	10 m/s	0,5 bar (7 psi)
s-mart HNBR	-25 °C ... +150 °C	10 m/s	0,5 bar (7 psi)
s-mart FKM	-20 °C ... +200 °C	15 m/s	0,5 bar (7 psi)
s-mart EPDM ²	-50 °C ... +150 °C	10 m/s	0,2 bar (3 psi)
s-mart MVQ	-60 °C ... +200 °C	5 m/s	0,2 bar (3 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 POM up to ø260 mm, PA above ø260 mm

**surface quality**

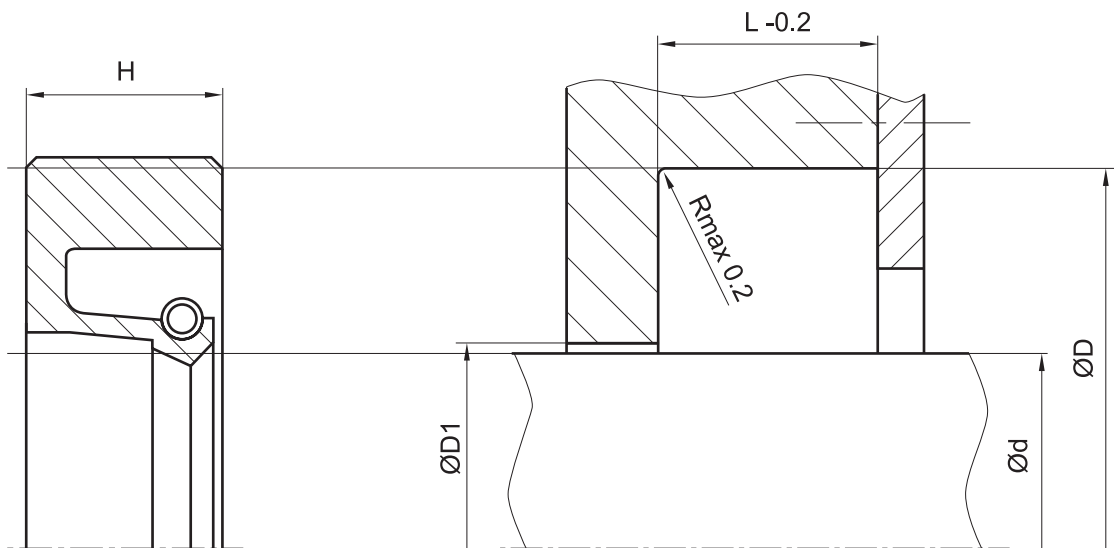
surface roughness	Rtmax [μm]	Ra [μm]
shaft	$\leq 6,3$	$\leq 0,2-0,8$
bottom of groove	≤ 25	$\leq 1,6-6,3$

tolerance recommendation

seal housing tolerances	
$\varnothing d$	f8
$\varnothing D$	H8
$\varnothing D1$	H11

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...



don't hesitate to contact our technical department for further information or for special requirements (temperature, speed etc.), so that suitable materials and/or designs can be recommended.