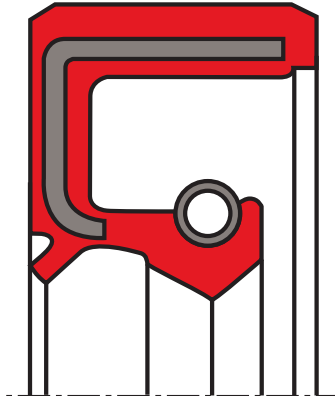


oil seal R61-D

seal spec



description

R60-D for high pressure oil seals, withstand pressures over 0.1 MPa: guaranteed up to 1 MPa, although in some applications this limit has been greatly exceeded.

application



category of profile

molded/standard/trade product only.

single acting rotary shaft seal

area of application

sealing of rotating machine elements such as shafts, hubs and axles.

operating parameters & material

sealing element*	material		temperature	max. surface speed	max. pressure
	metal insert**	spring**			
s-mart NBR 70 shore A	mild steel DIN 1624 or non-alloy steel DIN EN 10139	phosphated C72 spring steel (standard) or AISI 302 stainless steel (for acids and water)	-20°C ... + 120°C	≤ 12 m/s	10 Bar (1 MPa)
s-mart FKM 70 shore A			-18°C ... + 220°C	≤ 40 m/s	

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.

* special grades and other materials (ACM, EACM, EPDM, HNBR, MVQ) on request

** metal insert, and spring as well, can be supplied in different materials on request.

surface quality

surface roughness	Rtmax [μm]	Rz [μm]	Ra (μm)
shaft	≤6,3	≤1,0-5,0	≤0,2-0,8
bottom of groove	≤25	≤10-25	≤1,6-6,3

hardness 45 ... 60 HRC

tolerance recommendation

seal housing tolerances	
Ød	f8/h11
ØD	H8

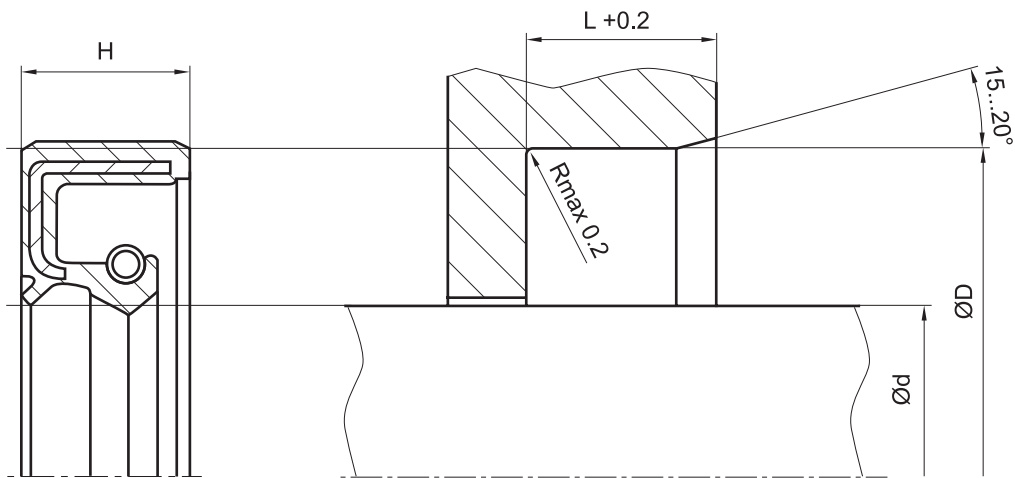
fitting & installation

suitable tool should be used for installation. It is recommended that the installation housing is designed to provide the rotary shaft seal with axial support.



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.