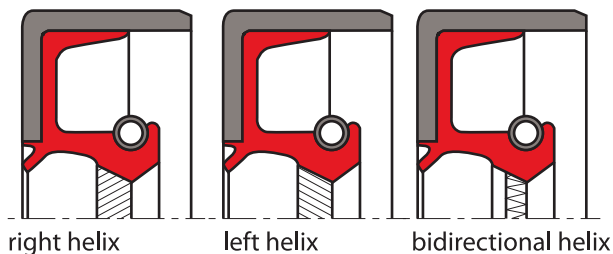


oil seal R63-D

seal spec



description

oil seal with helix internal conical lip surface with dust lips. usually used in the automotive industry, particularly for driving shafts. the right or left helix limits the use of the seals to one-way rotary shafts. bidirectional helix is for special applications.

sealing lip with spring, right helix
sealing lip with spring, left helix
sealing lip with spring, bidirectional helix

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.

media

good chemical resistance to many mineral oil and synthetic lubricants (CLP, HLP, APGL etc.)

operating parameters & material

sealing element*	material		temperature	max. surface speed	max. pressure
	metal housing**	spring**			
s-mart NBR 70 shore A	mild steel DIN 1624 or non-alloy steel DIN EN 10139	phosphated C72 spring steel (standard) or	-20°C ... + 120°C	≤ 12 m/s	1 Bar (0,1 MPa)
s-mart FKM 70 shore A		AISI 302 stainless steel (for acids and water)	-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 housing, 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

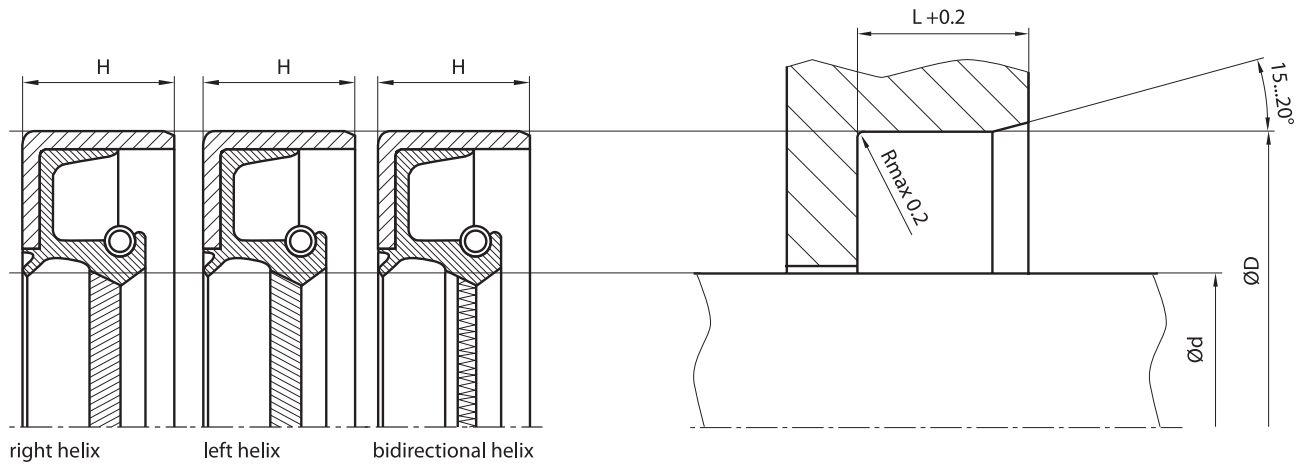
fitting & installation

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.