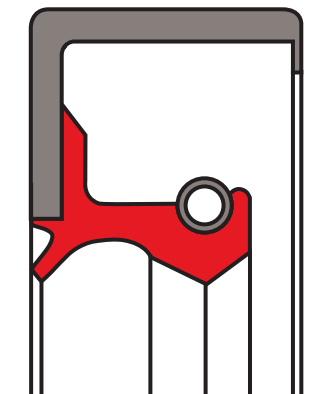


## oil seal R63-B

## seal spec

**description**

oil seals with external metal casing ground to DIN 3760, with dustlip. the sealing lip is vulcanised directly onto the metal case. this oil seal is used when the difference between the shaft and the housing is very small.

**application****category of profile**

molded/standard/trade product or machined with minor design change.

**single acting rotary shaft seal****area of application**

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

**operating parameters & material**

material			temperature	max. surface speed	max. pressure
sealing element*	metal housing**	spring**			
s-mart NBR 70 shore A	metal casing ground to DIN 3760	phosphated C72 spring steel (standard) or AISI 302 stainless steel (for acids and water)	-20°C ... + 120°C	≤ 12 m/s	1 Bar (0,1 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 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

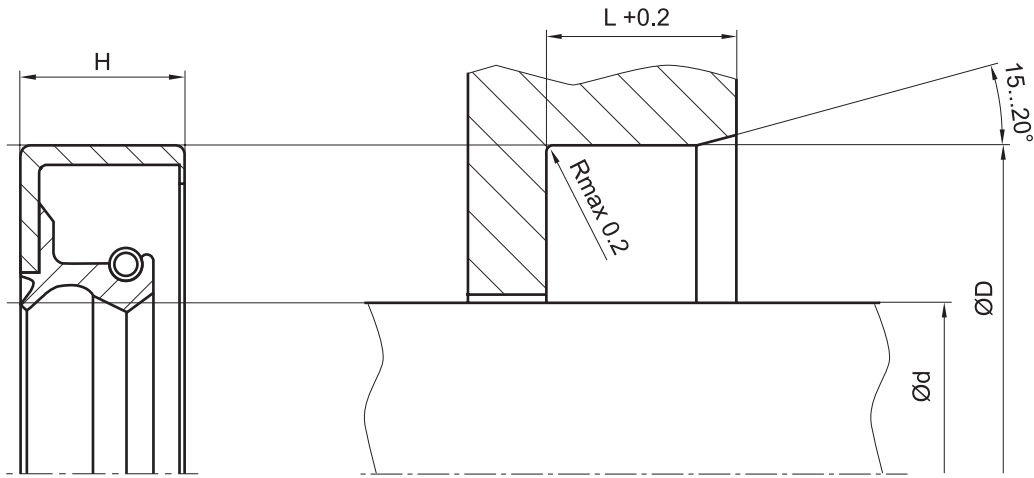
**fitting & installation**

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.*