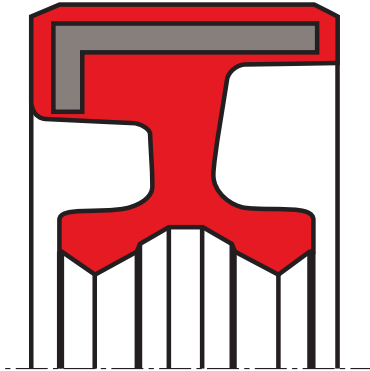


## oil seal R117

## seal spec



### description

the grease sealing type is a special oil seal, which does not contain any spring so the contact is more delicate. it is used to seal against grease and dust; it is suitable for shafts with low rotating speed. double lipped oil seal without springs with ensure a compact sealing system from two different media

### application



### category of profile

molded/standard/trade product only.

### media

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

### operating parameters & material

material		temperature	max. surface speed	max. pressure
sealing element*	metal insert**			
s-mart NBR 70 shore A	mild steel DIN 1624	-20°C ... + 120°C	≤ 12 m/s	1 Bar (0,1 MPa)
s-mart FKM 70 shore A	(non-alloy steel DIN EN 10139)	-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 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

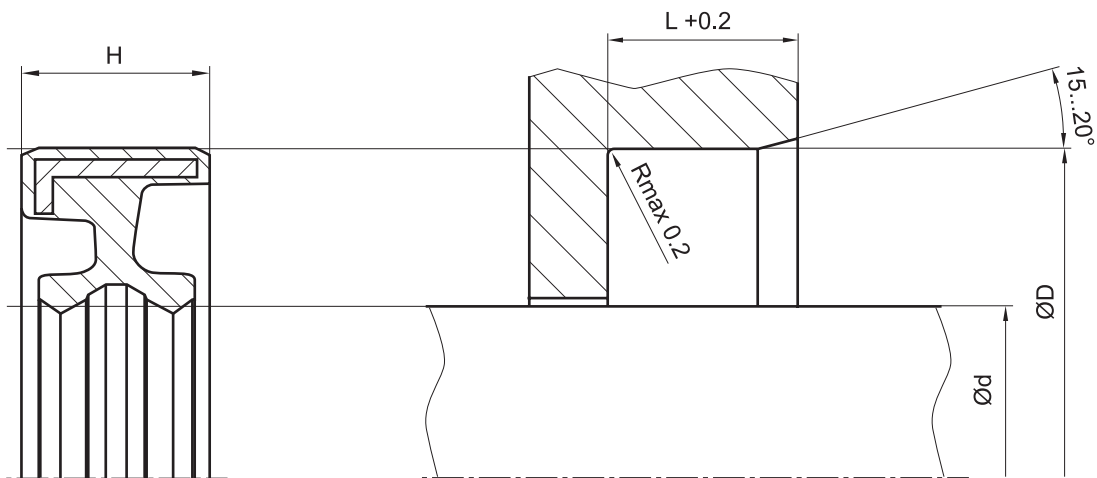
### fitting & installation

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.*