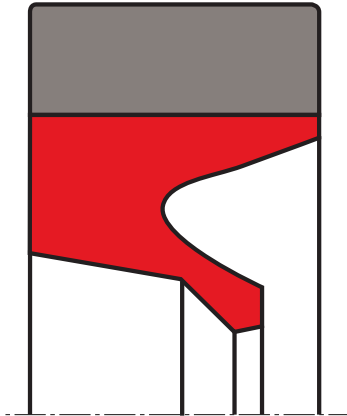


## oil seal R83

## seal spec



### description

rotary shaft seal made of elastomer which has an outer casing reinforced with impregnated fabric. the fabric reinforcement is bonded firmly to the elastomer component. type R83 is a Split oil seal with a vulcanised stainless steel finger spring.

### application



### category of profile

molded/standard/trade product only.

### single acting rotary shaft seal

### operating parameters & material

material	temperature	max. surface speed	max. pressure
s-mart NBR 80 with impregnated cotton fabric	-30 °C ... +100 °C	15 m/s	0,2 bar (0,02 MPa)
s-mart FKM 80 with impregnated cotton fabric	-20 °C ... + 180 °C	15 m/s	0,2 bar (0,02 MPa)

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.

### 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

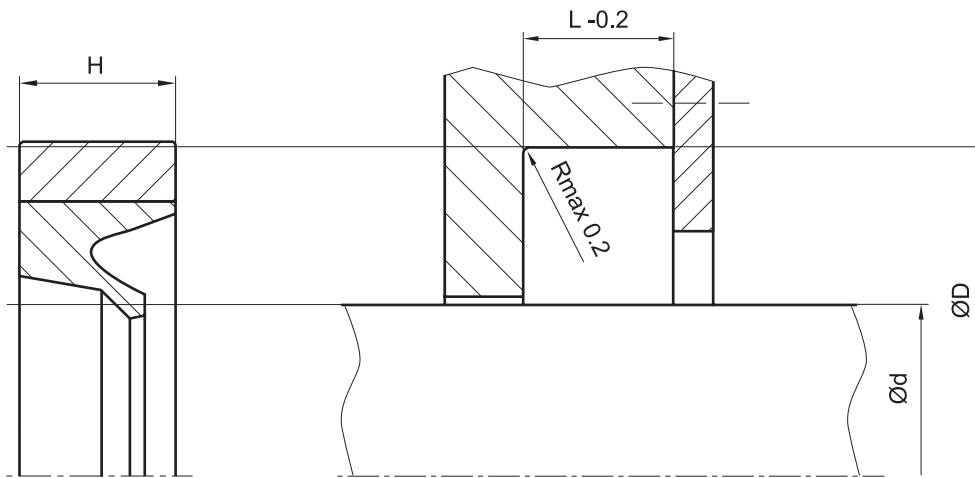
### tolerance recommendation

seal housing tolerances	
Ød	f8/h11
ØD	H8



**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.*