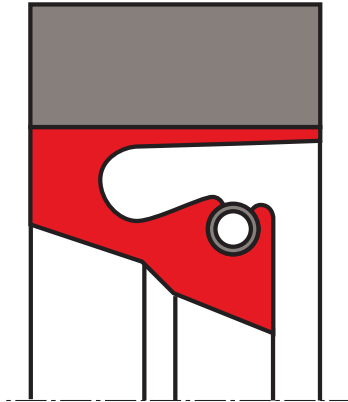


oil seal R103-B

seal spec



description

R103-B is textile rubber oil seals are equipped with a strong flexible textile rubber back.

application



category of profile

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

single acting rotary shaft seal

area of application

main applications of the R103-B (textile rubber) seals are in heavy industries: i.e. gear drives, propeller shafts, work rolls in hot and cold mills, pumps, paper machinery etc.

operating parameters & material

material		temperature	max. surface speed	max. pressure
sealing element	spring			
s-mart NBR 80 with impregnated cotton fabric	rust & acid-resistant steel 1.4301 (AISI 304)	-30 °C ... +100 °C	15 m/s	0,5 bar (0,05 MPa)
s-mart FKM 80 with impregnated cotton fabric	rust & acid-resistant steel 1.4301 (AISI 304)	-20 °C ... + 180 °C	15 m/s	0,5 bar (0,05 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]	Ra (µm)
contact area	≤2,5	≤0,6
housing	≤15	≤4

tolerance recommendation

seal housing tolerances	
Ød	h9
ØD (<500)	H8
ØD (>500)	+0,0004 . ØD

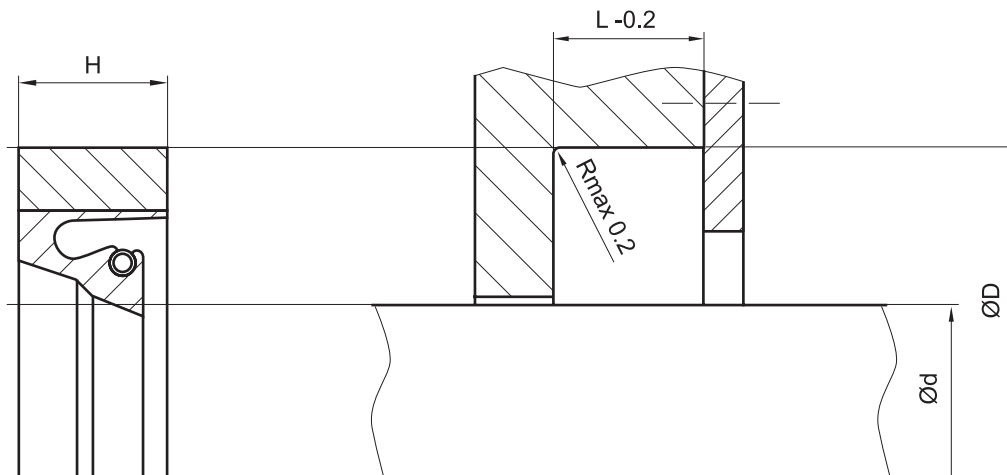
**fitting & installation**

R103-B is always used with a retaining plate. the plate should be sufficiently dimensioned to avoid distortion when bolting up. the retaining plate creates an axial preload that adds to the static sealability of the seal. to ease mounting of the oil seal make sure the housing has a chamfer. enter the seal evenly and press it against the housing shoulder. before tightening the retaining plate, check proper location of the seal lip and the textile back.

if the R103-B is splitted, remove spring from the seal first and open it at the joint. after placing the spring around the shaft place the ends together and screw up, then pass the seal on the shaft and lift spring into the seal lip. make sure that the joint of the seal is at the top (12.00 o'clock). when using two split seals joints should be at 11.00 o'clock and 13.00 o'clock position. ensuring both ends fit perfectly, enter the seal and press against housing shoulder. then tighten retaining plate as described above.

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.