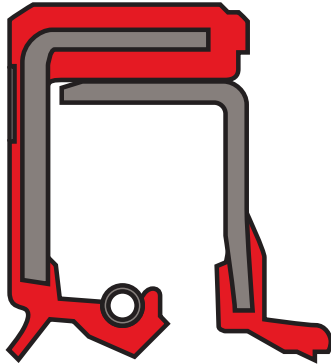


oil seal R93

seal spec



description

- outer casing: elastomer (smooth)
- spring-loaded sealing lip and sealing lip with helix edge without spring
- additional dust lip
- modern sealing lip profile
- friction-optimised primary seal lip 1 made from fluoro rubber 75 FKM 585
- secondary seal lip with additional dust lip 2

application



category of profile

molded/standard/trade product only.

single acting rotary shaft seal

area of application

industrial gearboxes.

advantages

- broad range of applications, for example in industrial gearboxes
- reliable sealing of the housing bore, even with increased roughness of the bore, thermal expansion and split housings, thus a sealing of low viscosity and gaseous media is also possible
- very long service life and reliability, especially when subject to strong external dirt and/or contamination (metal abrasion, cast sand) of the lubricant
- optimal for vertical unit application
- very narrow axial design
- reliable sealing of the housing bore, etc.

operating parameters & material

material			temperature	max. surface speed	max. pressure ¹
sealing element	metal insert	spring			
s-mart NBR 72 Shore A / s-mart FKM 75 Shore A	unalloyed steel DIN EN 10027-1	spring steel DIN EN 10270-1	-25°C ... + 100°C	≤ 6 m/s	0,5 bar (0,05 MPa)
s-mart FKM 75 Shore A / s-mart FKM 75 Shore A			-25°C ... + 160°C	≤ 6 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.

¹ pressure ratings are dependent on the size of the extrusion gap.

**tolerance recommendation**shaft $\varnothing d$ (35 ... 145) mm

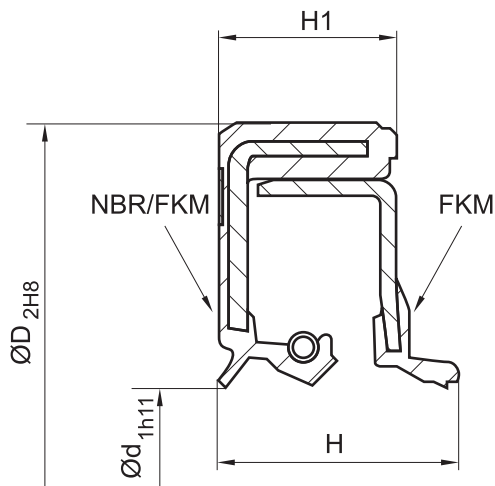
tolerance	Iso h11
runout	IT 8
roughness	$Ra = 0,2 \dots 0,8 \mu m$
	$Rz = 1,0 \dots 5,0 \mu m$
	$R_{max} = <6,3 \mu m$
hardness	45 ... 60 HRC

housing bore

tolerance	Iso H8
roughness	$Rz = 10 \dots 25 \mu m$

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.