

Simmerring Radiamatic® R 35 LD

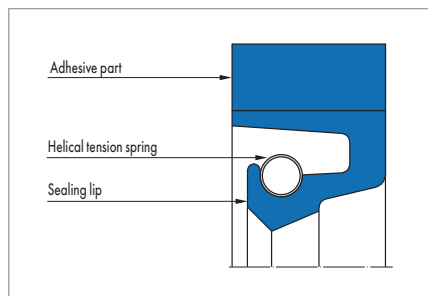


Fig. 1 Simmerring Radiamatic® R 35 LD

Product description

Simmerring with a fabric reinforced static part that is securely joined to the elastomer sealing lip. The sealing lip is also pre-loaded with a garter spring.

Product advantages

Sealing ring is used, in case of adequate lubrication by the medium to be sealed, preferably where shafts pass through walls in mills and large gearboxes in heavy machinery manufacture.

- Particularly robust static part
- Lasting radial contact pressure
- Highly wear-resistant.

Higher pressures are possible with design measures, e.g. metal support for the sealing lip. Overpressure requires the usage of endless seals. Back-up ring drawings and installation instructions for open seals are available.

Application

Mills, ship building.

Material

Sealing lip	Static part	Tension spring
80 NBR B241	Impregnated cotton fabric B4 B248	ST 1.4571
70 HNBR U467	Impregnated cotton fabric C2 U464	ST 1.4571

Operating conditions

Material	80 NBR B241	75 HNBR U467
	Temperature range in °C	
Mineral oils	-30 ... +100	-20 ... +140
Water	+5 ... +100	+5 ... +100
Lubricating greases	-30 ... +100	-20 ... +140
Rolling oil emulsion	on enquiry	
Pressure p in MPa	0,05	
Running speed v in m/s	20 (NBR), 25 (HNBR)	

Other media on enquiry. Application parameters are recommended values, do not utilise all parameters simultaneously.

Surface quality

Peak-to-valley heights	R _a	R _{max}
Running surface	≤0,6 µm	≤2,5 µm
Housing	≤4,0 µm	≤15,0 µm

The contact area is machined by plunge grinding, i.e. without feed. The surface hardness must be approx. 60 HRC (depth of hardening min. 0,5 mm). With increasing circumferential speed the contact area should be manufactured with increasing peak-to-valley heights R_a. The surface should not be too smooth so that an adequate film of lubricant can form. Recommended value: R_{a min} = 0,1 µm. Percentage contact area M_p >50% to max. 90% at cutting depth c = Rz/2 and reference line C ref = 0%. Abrasive surfaces, ridges, scratches and blow-holes are to be avoided.

Design notes

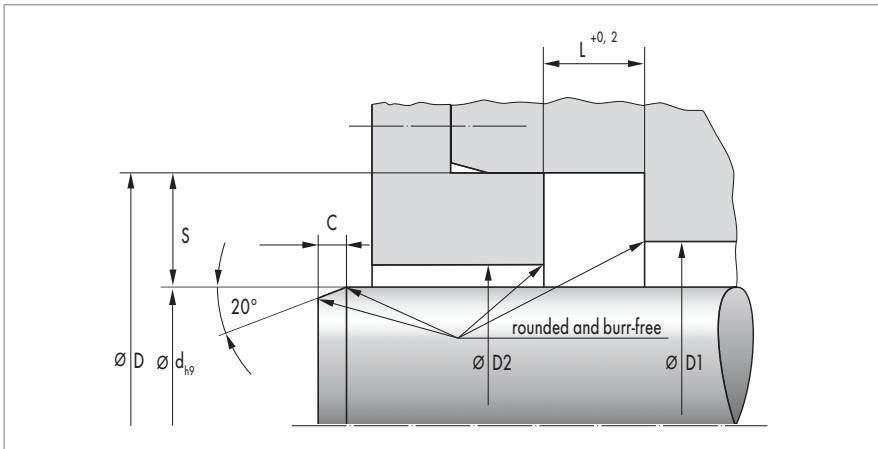


Fig. 2

Available dimensions

Profile S x L	Ø range
32 x 25	d > 1100 ... 3000