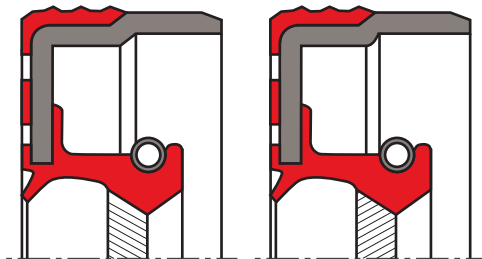


oil seal R71

seal spec



left helix

right helix

description

metal with grooved rubber, sealing lip with spring, left & right helix + dust lip.

application



category of profile

molded/standard/trade product only.

single acting rotary shaft seal

area of application

- automotive "power-train" and "drive-train"
- automotive servo-pumps
- high speed transmission
- machine tools

advantages

- good static sealing and stiffness (no pop-out effect)
- good thermal expansion compensation
- good heat transfer
- effective protection against air side contaminants

media

mineral and synthetic oils (CLP, HLP, APGL etc.)

operating parameters & material

sealing element*	material		temperature	max. surface speed	max. pressure
	metal insert**	spring**			
s-mart NBR 70 shore A	mild steel DIN 1624 or	phosphated C72 spring steel (standard) or	-20°C ... + 120°C	≤ 12 m/s	1 Bar (0,1 MPa)
s-mart FKM 70 shore A	non-alloy steel DIN EN 10139	AISI 302 stainless steel (for acids and water)	-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, and spring as well, can be supplied in different materials on request.

**surface quality**

surface roughness	Rtmax [μm]	Rz [μm]	Ra [μm]
shaft	$\leq 6,3$	$\leq 1,0-5,0$	$\leq 0,2-0,8$
bottom of groove	≤ 25	$\leq 10-25$	$\leq 1,6-6,3$

hardness 45 ... 60 HRC

tolerance recommendation

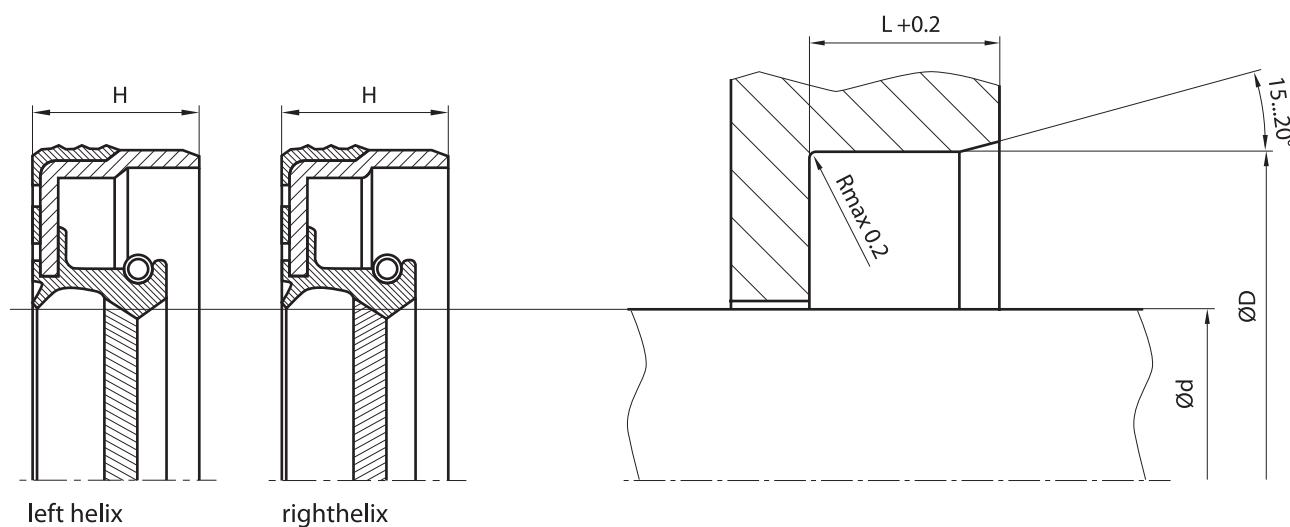
seal housing tolerances	
$\varnothing d$	f8/h11
$\varnothing D$	H8

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.