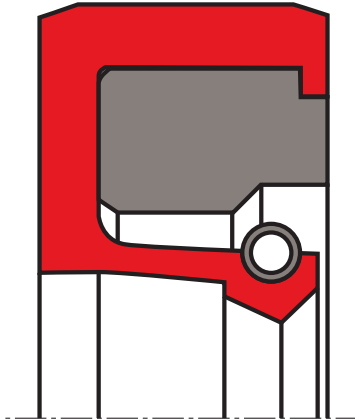


## oil seal R01-R

## seal spec



### description

spring loaded lip seal with retainer ring for press-fit installation into axially open housings. good adaptation possibilities for diverse temperatures and media by selection of suitable seal material. wide range of applications in every sector of industry, mainly as protecting element for bearings.

### application



### category of profile

machined only

### single acting rotary shaft seal

### operating parameters & material

diameter range: up to 600 mm

material		temperature	max. surface speed	max. pressure <sup>1</sup>
sealing element	back-up ring			
s-mart NBR	s-mart POM / s-mart PA <sup>2</sup>	-30 °C ... +80 °C	10 m/s	0,5 bar (7 psi)
s-mart HNBR	s-mart POM / s-mart PA <sup>2</sup>	-25 °C ... +80 °C	10 m/s	0,5 bar (7 psi)
s-mart FKM	Metal	-20 °C ... +200 °C	15 m/s	0,5 bar (7 psi)
s-mart EPDM <sup>3</sup>	s-mart POM / s-mart PA <sup>2</sup>	-50 °C ... +80 °C	10 m/s	0,5 bar (7 psi)
s-mart EPDM <sup>3</sup>	Metal	-50 °C ... +150 °C	10 m/s	0,5 bar (7 psi)
s-mart MVQ	s-mart POM / s-mart PA <sup>2</sup>	-50 °C ... +80 °C	5 m/s	0,2 bar (3 psi)
s-mart MVQ	Metal	-60 °C ... +200 °C	5 m/s	0,2 bar (3 psi)

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.

<sup>1</sup> pressure ratings are dependent on the size of the extrusion gap.

<sup>2</sup> POM up to ø260 mm, PA above ø260 mm

### surface quality

surface roughness	Rtmax [µm]	Ra [µm]
shaft	≤6,3	≤0,2-0,8
bottom of groove	≤25	≤1,6-6,3

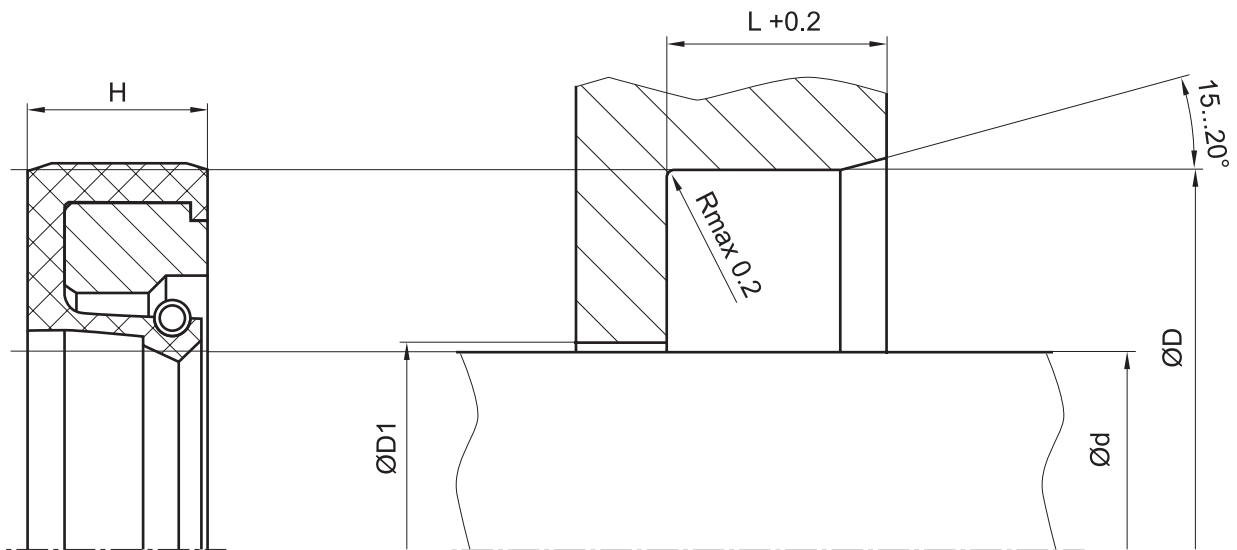
### tolerance recommendation

seal housing tolerances	
Ød	f8
ØD	H8
ØD1	H11



**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.*