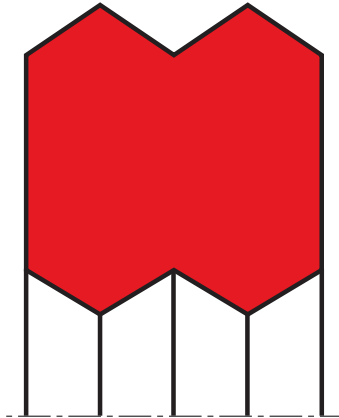


static seal R15-P

seal spec



description

for static applications as an O-ring replacement to avoid drilling in the housing, simple installation and higher extrusion resistance.

application



category of profile

machined or molded/standard/trade product.

advantages

compared with the O-Ring / Back-up Ring combination, the Dualseal offers the following advantages:

- high resistance to twisting
- easy assembly
- long service life
- high extrusion resistance of the material

applications

the dualseal allows general use in hydraulic cylinders e.g.

- fork lifts
- mobile hydraulics
- industrial hydraulics
- machine tools
- injection moulding machines
- hydraulic presses
- cartridge valves

operating parameters & materials

diameter range: up to 600 mm

material	temperature	max. surface speed	max. pressure ¹
s-mart PU	-30 °C ... +110 °C	-	400 bar (40 MPa)
s-mart HPU	-20 °C ... +110 °C	-	400 bar (40 MPa)
s-mart SPU	-20 °C ... +110 °C	-	400 bar (40 MPa)
s-mart LTPU	-50 °C ... +110 °C	-	400 bar (40 MPa)
s-mart GPU	-30 °C ... +110 °C	-	400 bar (40 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.

**surface quality**

type of load	surface roughness	Rtmax (µm)	Rx (µm)	Ra (µm)
radial - static	mating surface	≤ 10,0	≤ 6,3	≤ 1,6
	groove surface (groove diameter, groove flanks)	≤ 16,0	≤ 6,3	≤ 3,2

tolerance recommendation**seal housing tolerances**

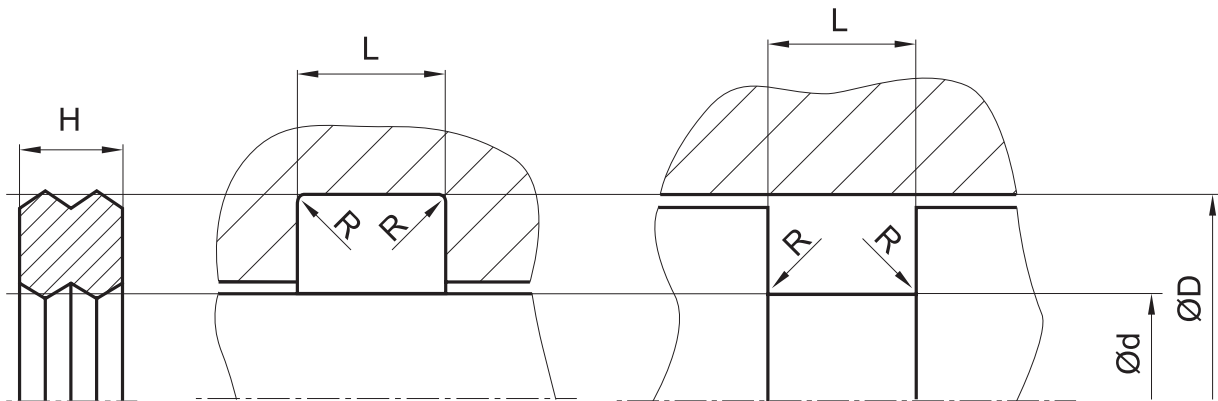
Ød	g6
ØD	H8

preferred sealing gap

due to the high extrusion resistance of the seal a radial sealing gap (S) of 0.2 mm can be realised. in case of low temperature applications deviations of the gland to the bore and rod shall be avoided.

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.