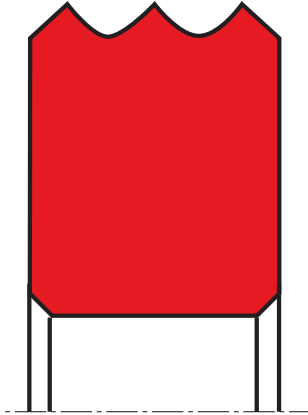


roto slide seal R05-A

seal spec



description

space saving rotary seal for pivoting motion in hydraulic systems. interference fit on inside diameter maintains stable fit in the housing, dynamic sealing lips on outside diameter.

application



not bolded symbols; please consult our technical for application limitations

category of profile

machined only.

double acting rotary shaft seal

operating parameters & material

diameter range: up to 600 mm

| material | temperature | max. surface speed | max. pressure ¹ |
|--------------------------|--------------------|--------------------|----------------------------|
| s-mart PU | -30 °C ... +110 °C | 0,2 m/s | 160 bar (2300 psi) |
| s-mart HPU | -20 °C ... +110 °C | 0,2 m/s | 160 bar (2300 psi) |
| s-mart SPU | -20 °C ... +110 °C | 0,3 m/s | 160 bar (2300 psi) |
| s-mart LTPU | -50 °C ... +110 °C | 0,2 m/s | 160 bar (2300 psi) |
| s-mart GPU | -30 °C ... +110 °C | 0,2 m/s | 160 bar (2300 psi) |
| s-mart NBR | -30 °C ... +100 °C | 0,2 m/s | 100 bar (1400 psi) |
| s-mart HNBR | -25 °C ... +150 °C | 0,2 m/s | 100 bar (1400 psi) |
| s-mart FKM | -20 °C ... +200 °C | 0,2 m/s | 100 bar (1400 psi) |
| s-mart EPDM ² | -50 °C ... +150 °C | 0,2 m/s | 100 bar (1400 psi) |
| s-mart MVQ | -60 °C ... +200 °C | 0,2 m/s | 100 bar (1400 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.

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

² POM up to ø260 mm, PA above ø260 mm

surface quality

| surface roughness | Rtmax (µm) | Ra (µm) |
|-------------------|------------|---------|
| sliding surface | ≤3 | ≤0,3 |
| bottom of groove | ≤10 | ≤1,8 |
| groove face | ≤16 | ≤3 |

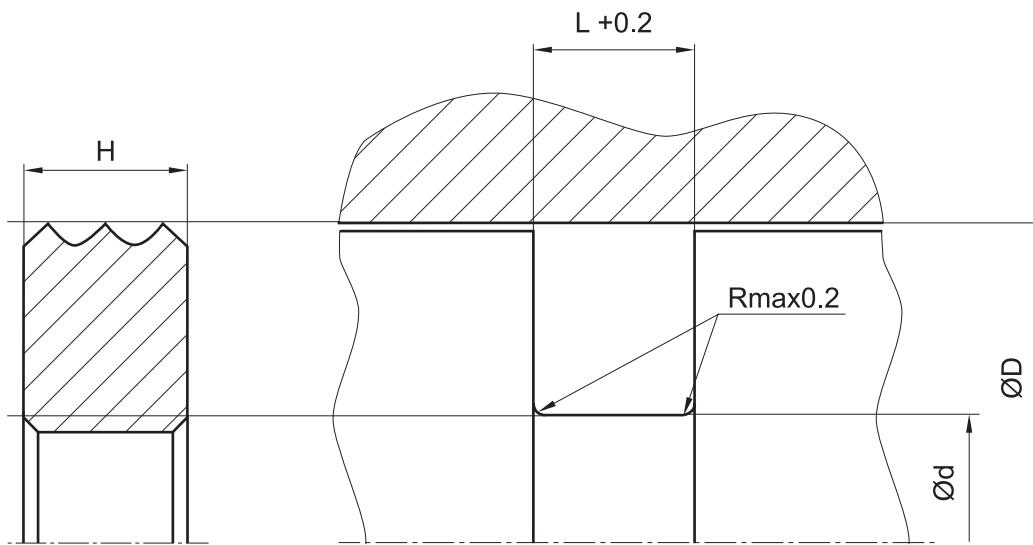
tolerance recommendation

| seal housing tolerances | |
|-------------------------|----|
| Ød | f7 |
| ØD | H8 |



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.