



DESCRIPTION

Semicompact rod seal with an additional sealing lip, active backup ring and energizing element

MATERIAL OF SEAL

Type: Polyurethane
Designation: SEALPUR 93
Hardness: 93 °ShA

MATERIAL OF ENERGIZING ELEMENT

Type: Nitril Rubber NBR
Designation: RUBSEAL 70
Hardness: 70 °ShA

MATERIAL OF ANTI-EXTRUSION RING

Type: Acetal resin
Designation: BEARITE

MAIN FEATURES

The seal type SDAN is the natural further development of the SDA seal. It is a high performance all purpose lipseal which combines the advantage of a highly elastic rubber and the abrasion resistance of polyurethane.

This seal is mainly used with high pressure and the backup ring offsets large gaps without extrusion.

Wear and dry run are largely prevented by additional lubricant retained within the gap created by the secondary lip. In some cases this second sealing lip may even act as a substitute for a costly tandem sealing system when complete sealing under certain working conditions can only be achieved by two seals placed one behind the other in separate housing.

The energizing O-Ring guarantees a good sealing performance in the low pressure range.

The material used to produce this seal is a polyurethane compound that ensures excellent properties on wear-resistance, extended service life and resistance against extrusion.

- Very high resistance against extrusion (backup ring)
- Good sealing performance as well as at low pressure
- Extended service life
- Excellent wear-resistance
- Good temperature resistance
- Insensitive to pressure fluctuation
- Easy installation without expensive auxiliaries

FIELD OF APPLICATION

Pressure	≤ 500 bar
Speed	≤ 0.5 m/s
Temperature	-40°C ÷ +100°C
Fluids	Hydraulic oils (mineral oil based). <i>For other fluids contact our technical department</i>

SURFACE ROUGHNESS

Dynamic surface	Ra ≤ 0.3 µm	Rt ≤ 2.5 µm
Static surface	Ra ≤ 1.6 µm	Rt ≤ 6.3 µm

GAP DIMENSION "g"

The largest gap dimension appearing in operation on the non-pressurised side:

• 200 bar	0.80 mm
• 300 bar	0.65 mm
• 400 bar	0.50 mm
• 500 bar	0.40 mm

LEAD-IN CHAMFERS

d	S _{MIN}
• less 100	5 mm
• 100÷200	7 mm
• over 200	10 mm

- to avoid damaging the sealing lips during installation, housing must have rounded chamfers. Sharp edges and burrs within the installation area of the seal must be removed

Part.	d ^{f7}	D ^{H10}	L ^{+0.25}
SDAN 50 59 10	50	59	11.0
SDAN 80 95 11.5	80	95.0	12.5
SDAN 90 105 11.5	90	105.0	12.5
SDAN 110 130 14.5	110	130.0	15.5