



## DESCRIPTION

Rod seal with an additional sealing lip and active backup ring

## MATERIAL OF SEAL

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

## MATERIAL OF ANTI-EXTRUSION RING

Type: Acetal resin  
Designation: BEARITE

## MAIN FEATURES

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

The asymmetric lips are designed to differentiate the behaviour of the lips on the static and dynamic surfaces: the static lip is flexible and more sensitive to pressure fluctuations; the dynamic lip is shorter and stronger to concentrate load against the dynamic surface.

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 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)
- Extended service life
- Excellent wear-resistance
- Good temperature resistance
- Insensitive to structural deflections
- 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 <sup>f7</sup>	D <sup>H10</sup>	L <sup>+0.25</sup>
<b>ADA 60 68 13</b>	60	68.0	14.0
<b>ADA 75 90 10</b>	75	90.0	11.0
<b>ADA 78 86 13</b>	78	86.0	14.0
<b>ADA 97 105 13</b>	97	105.0	14.0
<b>ADA 105 125 14.5</b>	105	125.0	15.5
<b>ADA 115 140 15</b>	115	140.0	16.0
<b>ADA 118 126 13</b>	118	126.0	14.0
<b>ADA 143 151 13</b>	143	151.0	14.0
<b>ADA 180 195 14</b>	180	195.0	15.0