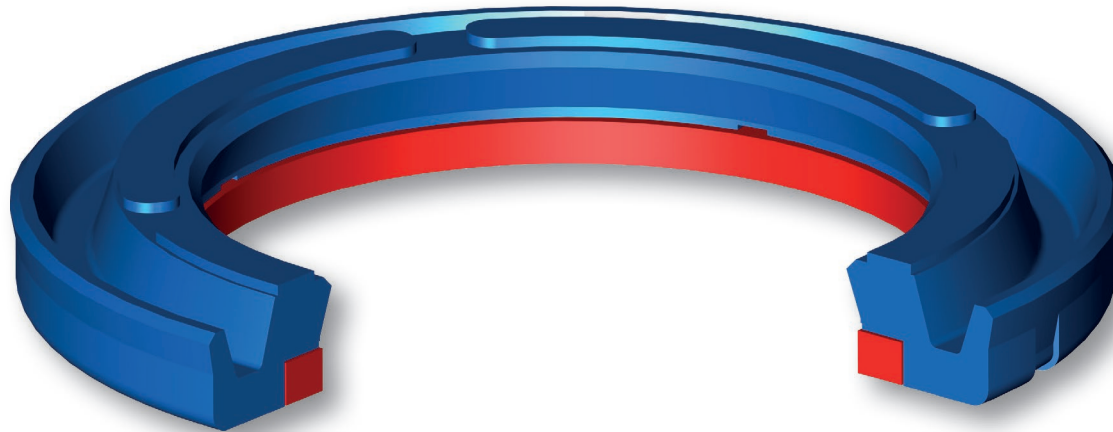


ARA



ARA

The Aston Seals ARA is a buffer seal designed for medium and heavy duty applications where spaces and friction need to be low.

It can be used either as a single acting seal or in tandem configuration as a "primary" seal.

Radial notches on the back facilitates back pumping and pressure relieve capability avoiding the risk of tipping.

Radial slots on the front avoid risk of suction.

The backup ring provides a very high resistance against extrusion in presence of pressure loads.

It is used in the same housing normally destined to PTFE seal of which has similar dimensional characteristics but, compared to

it, better sealing capabilities and greater easy installation.

- Very high resistance against extrusion
- Good sealing capability
- Designed with relief notches to prevent pressure trapping
- Interchangeable with common PTFE buffer seal housings
- Easy installation
- Excellent wear-resistance
- Extended service life
- Good temperature resistance

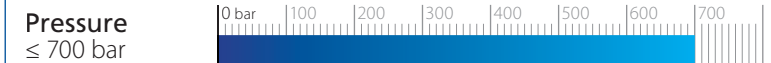
MATERIAL



① **Type** Polyurethane
Designation SEALPUR 93
Hardness 93 °ShA

② **Type** Acetal resin
Designation BEARITE

FIELD OF APPLICATION



Fluids Hydraulic oils (mineral oil based)
 For other fluids contact our technical department

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	500 bar	0.40 mm
300 bar	0.65 mm	600 bar	0.33 mm
400 bar	0.50 mm	700 bar	0.25 mm

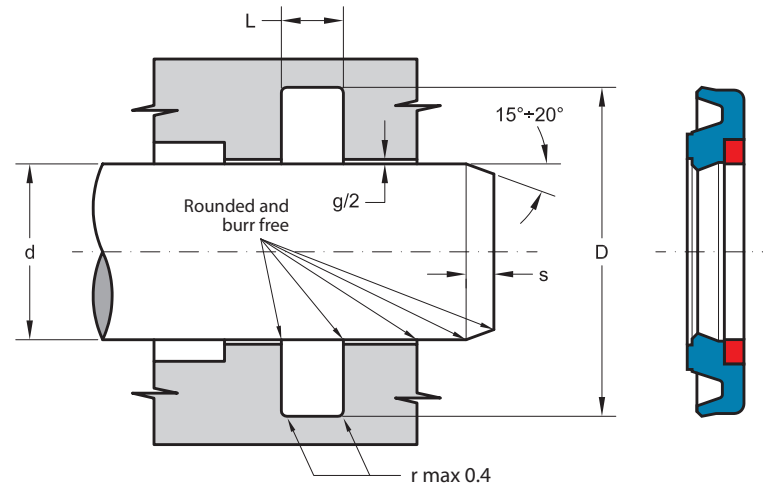
LEAD-IN CHAMFERS

d	Smin
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.

The above data are maximum values, they may be maintained for short periods and can not be used at the same time simultaneously.

ARA



Part.	d ^{f7}	D ^{H10}	L ^{+0.25}
ARA 40 55.1 6.3	40	55.1	6.3
ARA 45 60.1 6.3	45	60.1	6.3
ARA 50 65.1 6.3	50	65.1	6.3
ARA 56 71.1 6.3	56	71.1	6.3
ARA 60 75.1 6.3	60	75.1	6.3
ARA 63 78.1 6.3	63	78.1	6.3
ARA 70 85.1 6.3	70	85.1	6.3
ARA 80 95.1 6.3	80	95.1	6.3
ARA 90 105.1 6.3	90	105.1	6.3
ARA 100 115.1 6.3	100	115.1	6.3