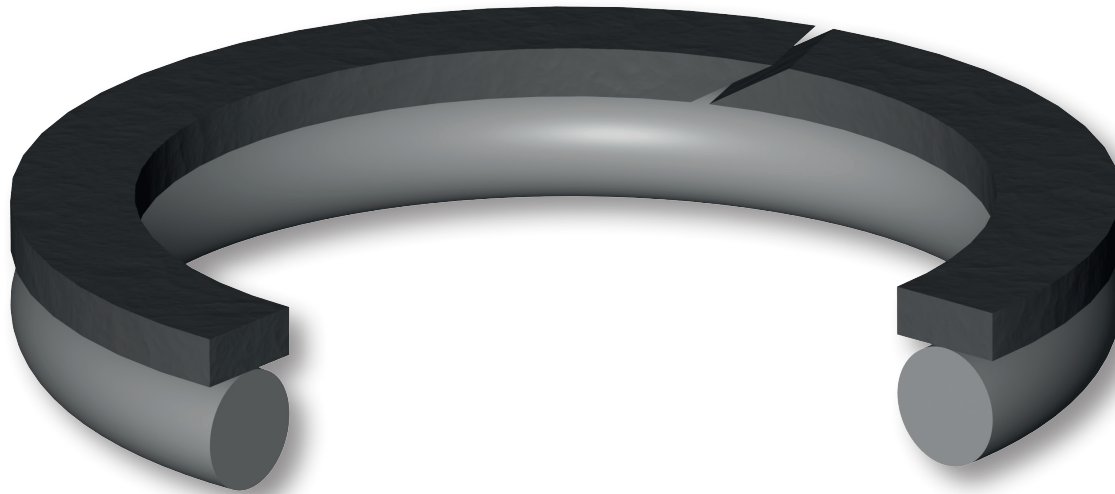


BRT



The function of ring type Aston Seals BRT is to avoid the extrusion and damage of the O-Ring that normally occurs in the presence of large gaps or high pressure.

If pressure arises on only one side of the O-Ring, it will suffice to fit one antiextrusion ring on the unexposed side. Two backup rings are necessary if the pressure rises on both sides.

The BRT ring is cut at an angle of 30°, so protection of the O-ring is ensured by the cut. Thanks to this, it can be installed very easily in a short time and without any auxiliaries.

The material used ensures a high compatibility with nearly all media due to the chemical

resistance which exceeds that of all other thermoplastics and elastomers.

- Very high resistance against extrusion
- Extended service life of sealing components
- High compatibility with nearly all fluids
- Excellent wear-resistance
- High temperature resistance
- Easy installation without expensive auxiliaries

MATERIAL



Type Polytetrafluoroethylene PTFE
Designation SEALFLON

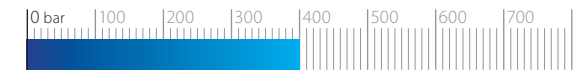
CODING

“BRT xxx” where “xxx” is the same code of O-Ring

FIELD OF APPLICATION

Pressure

≤ 400 bar
with a max. gap 0.3 mm (*)



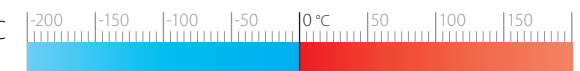
Speed

≤ 2m/s



Temperature

-200°C ÷ +200°C
(only for PTFE element)



Fluids

High compatibility with nearly all fluids
(only for PTFE element)

(*) for the Gap calculation, it is necessary to consider the elastic deformation of metal elements under pressure loads

GROOVE DIMENSIONS [mm]

| Section OR | h | L | L1 | L2 |
|------------|-----|-----|----|------|
| 1.78 | 1.4 | 2.5 | 4 | 5.5 |
| 2.62 | 1.4 | 3.5 | 5 | 6.5 |
| 3.53 | 1.4 | 4.5 | 6 | 7.5 |
| 5.34 | 1.7 | 7.0 | 9 | 10.5 |
| 6.99 | 2.5 | 9.5 | 12 | 14.5 |

Internal and external diameters are the same used for O-Rings

SURFACE ROUGHNESS

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

Before assembly good cleanliness and lubrication are recommended.

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

BRT

