

BRA



The function of ring type Aston Seals BRA 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.

It consists of two windings whose ends are cut at an angle to protect the O-ring. The particular advantage of this design is found in applications where there are large temperature fluctuations; it can react to deviations in tolerances and offers a wide range of applications.

Thanks to the spiral-shape, 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
- Resistant to temperature fluctuations
- 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 Designation Polytetrafluoroethylene PTFE
SEALFLON

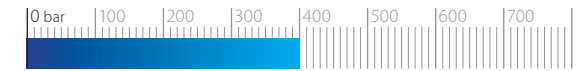
CODING

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

FIELD OF APPLICATION

Pressure

≤ 400 bar
with a max. gap 0.3 mm (*)



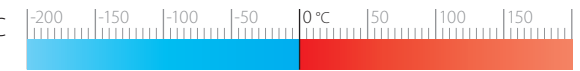
Speed

≤ 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.

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