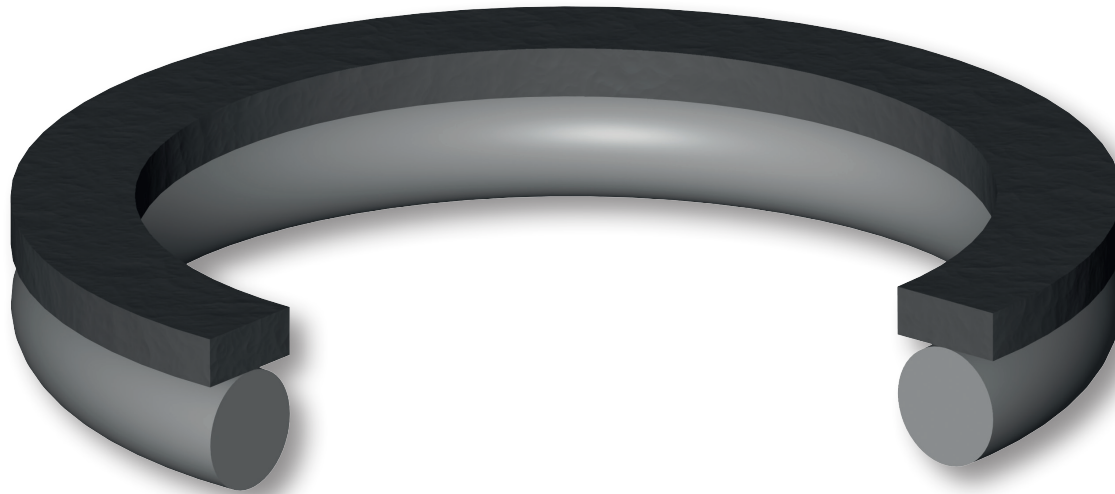


BRC



The function of ring type Aston Seals BRC 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 BRC ring hasn't a cut or spiral shape that could help damage the O-Ring especially in the presence of high pressure.

The material used ensures an 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
- Uncut piece to avoid O-Ring damage
- Extended service life of sealing components
- High compatibility with nearly all fluids
- Excellent wear-resistance
- High temperature resistance

MATERIAL



Type Designation Polytetrafluoroethylene PTFE SEALFLON

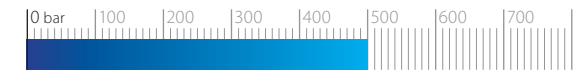
CODING

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

FIELD OF APPLICATION

Pressure

≤ 500 bar
with a max. gap 0.3 mm (*)



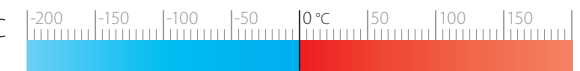
Speed

≤ 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.

BRC

