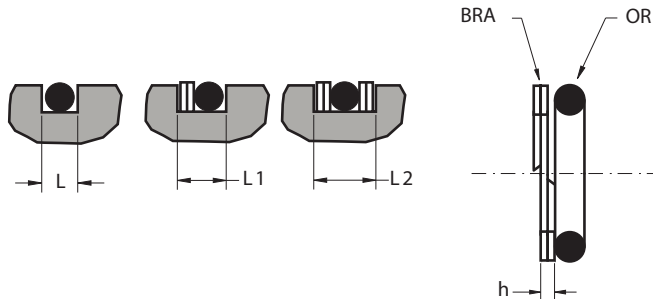


BRA

SPIRAL-TYPE ANTIEXTRUSION RING FOR STANDARD O-RING



DESCRIPTION

Spiral-type antiextrusion ring for standard O-Ring

MATERIAL

Type: Polytetrafluoroethylene PTFE

Designation: SEALFLON

CODING

“BRA xxx”

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

MAIN FEATURES

The function of ring type 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

FIELD OF APPLICATION

Pressure	400 bar, with a max. gap 0.3 mm (*)
Speed	≤ 2 m/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.