



### DESCRIPTION

Uncut antiextrusion ring for standard O-Ring

### MATERIAL

Type: Polytetrafluoroethylene PTFE  
 Designation: SEALFLON

### CODING

"BRC xxx"  
 where "xxx" is the same code of O-Ring

### MAIN FEATURES

The function of ring type 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 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
- 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

### FIELD OF APPLICATION

Pressure	500 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 a good cleanness and lubrication are recommended.