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BACK UP RING

GENERAL INFORMATION:

Back-Up Rings as their name indicates, they are protective and supporting elements made from extrusion-resistant materials which generally have a rectangular cross section. They are installed in a groove together with an elastomeric sealing element preferably with a corresponding O-Ring in static applications.

Back up rings are usually required on system pressures above 105 bar (1500 psi) or where extrusion gaps are excessive used in external and internal sealing applications, as in piston seals and rod seals. Material selection can be of Viton, NBR and PTFE (Teflon). Dynamic and static use, with reciprocating as well as rotating movements is possible.

Four types of back up ring are available as shown in the figure.

 BKS	Spiral back up ring; normally manufactured from virgin PTFE. This is the most common style of PTFE ring, being self adjusting to design diametrical tolerances
 BKE	Endless back up ring; normally manufactured from virgin PTFE. Used where problems are possible, as with rotation of screwed end caps, which would cause the spiral type to unwind
 BKE/S	Single turn, split back up ring; manufactured as the BKE, but is split to facilitate ease of assembly in certain applications
 CONTOURED	Supplied unsplit; manufactured from NBR/polyester

