



COLONIAL SEAL COMPANY

Specialty Distributor of Custom Shaft Seals, Oil & Grease Seals, Hydraulic Seals
www.colonialseal.com

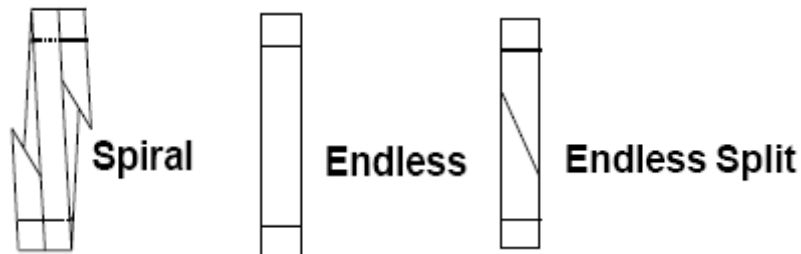
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Prevent O-ring Extrusion with Colonial Seal Back-Up Rings

[Colonial Seal Co.](#), a specialty distributor of [standard](#) and [custom sealing solutions](#) supplies both standard and custom-made PTFE Back-Up rings. PTFE back-up rings are available in multi-turn spiral cut, solid uncut(endless), and single-turn scarf cut(endless split) profiles. These PTFE back-up rings prevent O-rings from extruding when operating under high pressures and temperatures in both static and dynamic applications. Although these back-up rings offer no positive sealing function, they do provide protection and support to the primary sealing element, typically an O-ring.



“Due to its chemical resistance, low friction, abrasion rates, and cold flow characteristics P.T.F.E back-up rings provide a superior anti-extrusion solution to elastomeric back-up rings. Technological advances are pushing today’s fluid power applications towards higher pressures and temperatures, and we can provide the sealing solutions to meet our customers’ rigorous demands. Customers should consider using back-up rings when their systems are operating at or above 1500 PSI, temperatures of 175F, and in designs with relatively large clearance gaps” says Miss Shannon Dolan, Operations Manager, Colonial Seal Company.

Back-up rings are positioned between the O-ring and the clearance gap on the low-pressure side of the groove. In this position, the back-up ring acts as a buttress for the o-ring, preventing it from extruding into the clearance gap. In applications with bi-directional pressures, back-up rings are placed on both sides of the O-ring. Colonial Seal supplies standard back-up rings which can meet AN6224, AN6246, MS28774, MS28782, and MS28783 specifications. We can also supply back-up rings in hardened elastomers and thermoplastics. Colonial Seal can produce PTFE or

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other elastomeric back-up rings in small quantities, through a wide range of sizes in less than a week using a programmable lathe, or can produce larger quantities via globally sourced contract manufacturers.

Call us toll-free at 1.800.564.2201 for more information and a no-obligation quote. If you have an application that requires a custom sealing solution, visit our website at www.colonialseal.com to submit your specifications and a Colonial Seal representative will contact you within 24 hours. You can also email us at sales@colonialseal.com for information on our other product lines including [oil seals](#), [hydraulic seals](#), [rotary shaft seals](#), and [gaskets](#) in metric or standard sizes.

About Colonial Seal

Founded in 1994, Colonial Seal Co. is located in Westville, New Jersey, and is a specialty distributor of oil & grease seals, hydraulic seals, rotary shaft seals, rubber molded products, and gaskets. The company is a Veteran Owned, Small Business Supplier Authorized to do business with the US Government. Colonial Seal's contract manufacturing facilities are ISO 9001:2000 certified, and the company is an Authorized Distributor for SKF, Timken, Hallite, JM Clipper(Parker), Garlock Hydraulics, and STEMCO.

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