

# O Rings And Back Up Rings Trelleborg

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The Importance of Backup Rings to O Rings

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Stockist & Distributor Of ...O-rings and back-up rings maintain sealing contact force by radial or axial deformation in the seal housing between two machine components. The most important criteria that influence the maximum operating pressure at which O-rings in static radial sealing can be used.O-rings and back-up rings | SKF | SKFBackup rings are ultimately used to help stop o ring migration, and they achieve this in both static and dynamic fluid power applications as the pressure cycles occur, preventing the extrusion of an o ring in the gap. Ultimately a backup ring is a rigid ring that holds a seal or plastic connection in the correct place.The Importance of Backup Rings to O RingsThey prevent extrusion of the O-ring when it is subjected to high pressure or when the extrusion gaps are excessive. Back-up rings are not seals themselves, but are usually used in conjunction with O-rings in high-pressure applications (over 1500 psi) for support or as spacers. Typical applications include hydraulic cylinders, high-pressure hydraulic systems or high-pressure valves.Back-up Rings Supplier in the UK - UK supplier of O-rings132 D.8 O-Ring surface finishing 133 Back-Up Rings 135 E General Information 136 F Back-up Ring Types 136 F.1 Overview 137 F.2 Back-up Ring Types for External Sealing (Piston) 138 F.3 Back-up Ring Types for Internal Sealing (Rod) 139 G Technical Information 139 G.1 Materials 139 G.2 Technical Data 140 G.3 Design RecommendationsO-Rings and Backs-up Rings - TrelleborgBack-up rings for O Rings can be contoured or flat, depending on the design requirements of the sealing system. They can come in the form of a solid ring, a split ring or even a spiral ring, depending on the environment that the back-up ring is expected to operate in, and for ease of fitting.What is a backup ring | Backup rings | Backup ring designD.3 PTFE O-Rings D.4 Polyurethane O-Rings D.5 Fleximold™ O-Rings - large dimensions D.6 Round cord rings (butt vulcanized) D.7 O-Ring surface finishing 115 Back-up Rings 117 E General Information 118 118 119 120 F Back-up Ring Types F.1 Overview F.2 Back-up Ring types for external sealing (Piston) F.3 Back-up Ring types for internal sealing (Rod)O-Rings and Back-up Rings - TrelleborgBack-up Ring Back-up Rings are installed together with O-Rings and Quad-Ring® Seals / X-Rings to prevent gap extrusion in applications above 5 MPa / 725 psi. Available in spiral, cut or uncut designs in filled or unfilled PTFE, Turcon®, elastomers and thermoplastics based on ISO 3601, AS 568.Back-up Ring | Static Seals | TrelleborgAt Global O-Ring and Seal, we stock contoured elastomeric back-up rings in Nitrile 90 Durometer and Viton® 90 Durometer. We can also provide contoured backup rings in other materials by request. N8-90 – Nitrile 90 Duro Contoured Backup Rings V8-90– Viton® 90 Duro Contoured Backup RingsBackup Rings | Global O-Ring and SealO'RINGS & BACK UP RINGS. We stock all our O'Rings in a number of different materials: Nitrile, Fluorocarbon, EPDM, Neoprene, Silicone, PTFE and Perfluoroelastomer. If the O'Ring you require does not fall into one of the standard sizes and is needed urgently, we can also offer a hot vulcanised jointing service, where the O'Ring will be made to your specific dimensions.O' Rings & Back Up RingsBACK-UP RINGS Also referred to as anti-extrusion rings, these are not actual seals themselves but are used in conjunction with 'O' Rings and are installed to prevent the extrusion of an elastomeric 'O' Ring in its housing groove under certain operating conditions.Back Up Rings for O Rings | Specialist Sealing ProductsThey have been used for many years in conjunction with O-Rings in high pressure applications. A back-up ring is a rigid ring that holds an elastomeric seal to its designed shape and in its correct place. Back-up rings are often used with O-Rings to prevent extrusion at high pressures. When sealing the piston inside a pneumatic cylinder, a soft and flexible material is required to prevent leakage.Back-up Rings | anti-extrusion rings | Eastern SealsAn encapsulated O-ring comprises

an elastomer energising core, which has a seamless fluoropolymer jacket. (-20°C to +200°C). PTFE Backup / Support O-Rings Back-up rings are used with O-rings for both static and dynamic sealing applications.O-Ring & Rubber Seals - Over 30,000 Available Online from ...BACKUP RINGS Backup rings are designed to prevent extrusion in rubber o-ring sealing systems. There are three basic types of PTFE back-up rings in use: single turn (scarf cut), multiturn (spiral cut), and solid (uncut) configurations. Our backup rings are made from either one of two materials, PTFE or rubber.Seal & Design, Inc - Backup ringsThese 325-piece assortments mean you'll always have a backup ring on hand. Use them to extend the life of your O-rings and improve their performance in high-pressure applications. The backup rings are made of PTFE and resist harsh chemicals such as, acetone, fluorinated solvents, methanol, and many acids.O-Ring Backup Rings | McMaster-CarrBack-up rings are installed to prevent the extrusion of an elastomeric O-ring in its housing groove under certain operating conditions.Static Seals - Standard O Ring Sizes | M Seals UK LtdBack-up rings are the most common anti-extrusion devices employed in dynamic and static sealing, designed to prevent the migration of sealing material into the extrusion gap under the system pressure. Parker offers a wide range of back-up ring geometries and materials to suit every seal type and application. They are open or closed shapes for snap assembly made of a broad range of compounds which are highly resistant to thermal or mechanical stress.Backup Rings | ManufacturerPTFE Back-Up Rings are used to prevent seal extrusion under high pressure and are available in a solid or spiral type PTFE or in 90 shore hard NBR. They are recommended for pressures in excess of 100 bar or if a low strength elastomer has been used. They have been used for many years in conjunction with O-Rings in high pressure applications. A back-up ring is a rigid ring that holds an elastomeric seal to its designed shape and in its correct place. Back-up rings are often used with O-Rings to prevent extrusion at high pressures. When sealing the piston inside a pneumatic cylinder, a soft and flexible material is required to prevent leakage.

#### The Importance of Backup Rings to O Rings

At Global O-Ring and Seal, we stock contoured elastomeric back-up rings in Nitrile 90 Durometer and Viton® 90 Durometer. We can also provide contoured backup rings in other materials by request. N8-90 – Nitrile 90 Duro Contoured Backup Rings V8-90– Viton® 90 Duro Contoured Backup Rings

#### O-Rings and Back-up Rings - Trelleborg

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#### O Rings And Back Up

O'RINGS & BACK UP RINGS. We stock all our O'Rings in a number of different materials: Nitrile, Fluorocarbon, EPDM, Neoprene, Silicone, PTFE and Perfluoroelastomer. If the O'Ring you require does not fall into one of the standard sizes and is needed urgently, we can also offer a hot vulcanised jointing service,

where the O'Ring will be made to your specific dimensions.

### **O-Ring Backup Rings | McMaster-Carr**

Back-up rings are the most common anti-extrusion devices employed in dynamic and static sealing, designed to prevent the migration of sealing material into the extrusion gap under the system pressure. Parker offers a wide range of back-up ring geometries and materials to suit every seal type and application. They are open or closed shapes for snap assembly made of a broad range of compounds which are highly resistant to thermal or mechanical stress.

### **Back Up Rings for O Rings | Specialist Sealing Products**

They prevent extrusion of the O-ring when it is subjected to high pressure or when the extrusion gaps are excessive. Back-up rings are not seals themselves, but are usually used in conjunction with O-rings in high-pressure applications (over 1500 psi) for support or as spacers. Typical applications include hydraulic cylinders, high-pressure hydraulic systems or high-pressure valves.

### **Back-up Rings | anti-extrusion rings | Eastern Seals**

O-rings and back-up rings maintain sealing contact force by radial or axial deformation in the seal housing between two machine components. The most important criteria that influence the maximum operating pressure at which O-rings in static radial sealing can be used.

### **What is a backup ring | Backup rings | Backup ring design**

*Back-up Rings Supplier in the UK - UK supplier of O-rings*

These 325-piece assortments mean you'll always have a backup ring on hand. Use them to extend the life of your O-rings and improve their performance in high-pressure applications. The backup rings are made of PTFE and resist harsh chemicals such as, acetone, fluorinated solvents, methanol, and many acids.

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An encapsulated O-ring comprises an elastomer energising core,

which has a seamless fluoropolymer jacket. (-20°C to +200°C). PTFE Backup / Support O-Rings Back-up rings are used with O-rings for both static and dynamic sealing applications.

### **Backup Rings | Global O-Ring and Seal**

Back-up Ring Back-up Rings are installed together with O-Rings and Quad-Ring® Seals / X-Rings to prevent gap extrusion in applications above 5 MPa / 725 psi. Available in spiral, cut or uncut designs in filled or unfilled PTFE, Turcon®, elastomers and thermoplastics based on ISO 3601, AS 568.

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### **Seal & Design, Inc - Backup rings**

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