

# RBR

## ROD BUFFER SEAL



Product Performance. Affordability. Availability.



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# RBR BUFFER SEAL

**RBR Buffer Seal** is a uni-directional rod buffer seal that protects the primary rod seal against high-pressure impulse and intensification conditions. The unique design of the **RBR Buffer Seal** allows a small amount of fluid bypass to assist in pressure actuation of the primary rod seal. Maximum pressure is regulated between the buffer seal and primary rod seal by relieving fluid back into the cylinder body on the extend stroke. As pressure increases between the **RBR Buffer Seal** and primary rod seal, fluid is allowed to bypass around the flexible outer sealing lip and the slotted side-wall pedestals. Protecting the primary rod seal from high-pressure impulse conditions extends its service life by reducing friction, heat, wear and extrusion.

**RBR Buffer Seal** is a two-component seal design. The seal ring has a unique pressure regulating profile made from a high-strength polyurethane material. The sealing lips are knife trimmed for optimal performance. An integrated high modulus solid nylon backup ring provides exceptional extrusion protection during high-pressure operating conditions.

**RBR Buffer Seal** is recommended in heavy-duty hydraulic cylinder applications operating under high pressures and temperatures. It is also recommended when employing large extrusion gaps for effective wear ring exposure. The high grade of hydrolysis resistant polyurethane material can withstand the inherent strain of heavy-duty mining and mobile cylinder applications. When used in conjunction with the high-performance RP1 U-Cup, the operating pressure can exceed 10,000 psi.

## STANDARD MATERIALS

Material Code	Material Description	Color
P95T	High Strength Polyurethane Seal Ring	Purple
NY46	High Modulus Nylon Backup Ring	Black

Other material options are available upon request.

## FEATURES

- High Pressure (10,000+ psi)
- Excellent Extrusion Resistance
- Low Temperature (-40°F)
- High Temperature (+250°F)
- Velocity up to 3 FPS
- Excellent Wear Resistance
- Low Compression Set
- Cost Effective
- Pressure Relieving
- Hydrolysis Resistant
- Easy Installation
- Robust Seal Design
- Fits Industry Standard Seal Glands

