INCH
MBRU
METRIC

ROD BUFFER
SEAL

MFP Seals' BRU is a compact, dual-purpose seal. Designed to be both a rod seal, as well as a buffer seal, for the primary rod seal. The BRU handles most of the rod sealing load while special relief vents, designed into the seal, eliminate pressure traps between the BRU and primary rod seal. This allows fluid to bypass the BRU, energizing the primary rod seal. Working in tandem, the BRU and primary rod seal provide unparalleled performance in extreme applications.

Available in both Inch (BRU) and Metric (MBRU) sizes, this seal is available in U2150, U2151, and U4150 Urethane compounds. This seal offers extremely low compression set and excellent extrusion resistance. Working together with the primary rod seal, the rod buffer enhances performance in extreme applications. The addition of an M1001 Anti-Extrusion Ring will significantly increase the seal's extrusion resistance and pressure rating.

WITHOUT ANTI-EXTRUSION RING

U2151

Pressure: 344 bar (5,000 psi)*
Max. Velocity: 0.5 m/s (< 1.6 ft./s)

WITH M1001 ANTI-EXTRUSION RING

U2151 / M1001

Pressure: 689 bar (10,000 psi)*
Max. Velocity: 0.5 m/s (< 1.6 ft./s)

Compound Name	Hardness	Material	Color	General Description	Temp. Range
U2150 - Ultraflex™ (TPU)	91 Shore A	Urethane	Dark Green	Aromatic Polyether-based Thermoplastic Polyurethane	-50°C to +110°C -58°F to +230°F
U2151 - Ultraflex™ (TPU)	95 Shore A	Urethane	Red	Aromatic Polyester-based Thermoplastic Polyurethane	-53°C to +120°C -65°F to +250°F
U4150 - Ultraflex™ (TPU)	92 Shore A	Urethane	Transparent Tan	PPDI based Thermoplastic Polyurethane	-43°C to +121°C** -45°F to +250°F**
M1001 - POM	82 Shore D	Engineered Plastic	Black	Acetal: Polyoxymethylene (POM) Excellent sliding and wear behavior.	-50°C to +100°C -58°F to +212°F

Standard sizes are readily available, other sizes are available upon request, but may require tooling and additional lead time. Contact MFP Seals Engineering Department for further details. The maximum temperatures, pressures, and operating speeds (velocity) shown, represent independent values from testing. The values are not intended to be combined (at the same time). Variables such as static or dynamic application, fluid media type, operating temperature, surface finish, seal material, and E-gap, can also effect this data. Contact MFP Seals Engineering for E-Gap information and Gland Design Assistance. *10,000 psi achieved with max E-Gap of .005". **Intermittent exposure to +135°C (+275°F).

MFP SEALS ®
MARTIN FLUID POWER

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