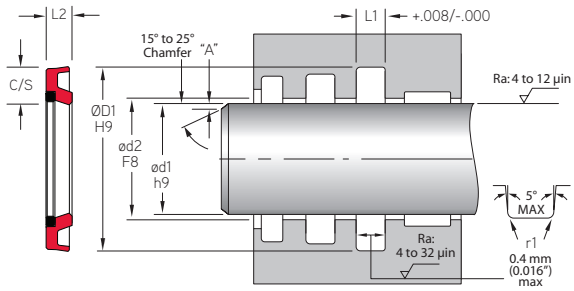
BRU - Rod Buffer Seal

MFP Seals' BRU is a dual-purpose seal, designed to be both a secondary rod seal and a buffer ring for the primary rod seal. While taking on a large portion of the sealing load, the BRU still allows enough fluid to pass to allow the primary rod seal to energize. The BRU is designed with special relief vents to eliminate pressure traps between the BRU and primary rod seal. Working together with the primary rod seal, the BRU enhances performance in extreme applications. Produced from our U2151 compound the seal offers extremely low compression set and excellent extrusion resistance. Available on most BRU's an M1001 Anti-Extrusion Ring (AER) dramatically increases pressure rating and extrusion resistance of the seal. Some sizes are available without an Anti-Extrusion Ring.

The standard compound for this seal is U2151. It is also available in compounds U2150, U4150. This seal has an M1001 Anti-Extrusion Ring.

See previous page for a BRU without an Anti-Extrusion Ring.



MFP PART NUMBER - AE-RING

BRU-1250X1812X125U2151/M1001

SEAL TYPE | ød1 | ØD1 | L2 | SEAL COMPOUND | AER

Pressure: 690 bar (10,000 psi)* **Max. Velocity:** 1.0 m/s (3.2 ft./s)

**With proper gap and guide elements, contact MFP Seals Engineering Department for gland design assistance.*

MAXIMUM EXTRUSION GAP RECOMMENDATION

ANTI-EXTRUSION RING	PSI (BAR)			
INCH C/S	2300 (160)	3600 (250)	5800 (400)	10000 (690)*
0.308	0.030	0.024	0.016	0.006
0.312	0.030	0.024	0.016	0.006
0.343	0.030	0.024	0.016	0.006

NOTE: The above data are maximum values for extrusion gap. Material type, pressure, temperature, speed and extrusion gap will affect extrusion resistance. Maximum values, pressure, speed, temperature and extrusion gap should not be applied continuously nor simultaneously.

	ROD APPLICATION		
MFP PART NUMBER	ød1	ØD1	L1
TOLERANCE	h9	H9	+.010/-.000
BRU-1750X2250X172	1.750	2.250	0.172
BRU-1750X2366X247	1.750	2.366	0.247
BRU-2000X2500X172	2.000	2.500	0.172
BRU-2000X2616X247	2.000	2.616	0.247
BRU-2250X2674X166	2.250	2.674	0.166
BRU-2250X2937X234	2.250	2.937	0.234
BRU-2500X2924X166	2.500	2.924	0.166
BRU-2500X3000X172	2.500	3.000	0.172
BRU-2500X3116X247	2.500	3.116	0.247

BRU - Rod Buffer Seal

A product of MFP Seals.

MFPSEALS
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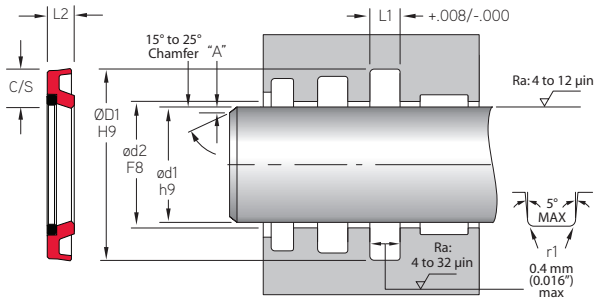

MFP PART NUMBER	ROD APPLICATION ød1	ØD1	L1
TOLERANCE	h9	H9	+.010/-.000
BRU-2750X3366X247	2.750	3.366	0.247
BRU-2750X3375X234	2.750	3.375	0.234
BRU-3000X3500X172	3.000	3.500	0.172
BRU-3000X3616X247	3.000	3.616	0.247
BRU-3500X4000X172	3.500	4.000	0.172
BRU-3500X4116X247	3.500	4.116	0.247
BRU-4000X4500X172	4.000	4.500	0.172
BRU-4000x4616x247	4.000	4.616	0.247
BRU-4500X5000X172	4.500	5.000	0.172
BRU-4500X5116X247	4.500	5.116	0.247
BRU-5000X5616X247	5.000	5.616	0.247
BRU-5500X6116X247	5.500	6.116	0.247
BRU-6000X6616X247	6.000	6.616	0.247
BRU-6500X7116X247	6.500	7.116	0.247
BRU-7000X7616X247	7.000	7.616	0.247
BRU-7500X8116X247	7.500	8.116	0.247
BRU-8000X8616X247	8.000	8.616	0.247

Other sizes are available, but may require tooling and additional lead times.

A BRU without an Anti-Extrusion Ring is available.

Contact the MFP Seals' Engineering Department for more information.

**10,000 psi achieved with max E-gap of .006", contact MFP Engineering for E-Gap information and Gland Design Assistance.*

Compound information available on pages 20-37.

Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.