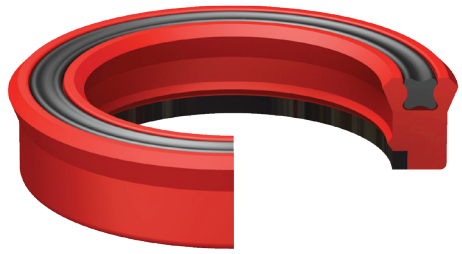
XPRA - X-PAC® Loaded B-Lip Rod Seal U-Cup with Twin-Lip & Anti-Extrusion Ring

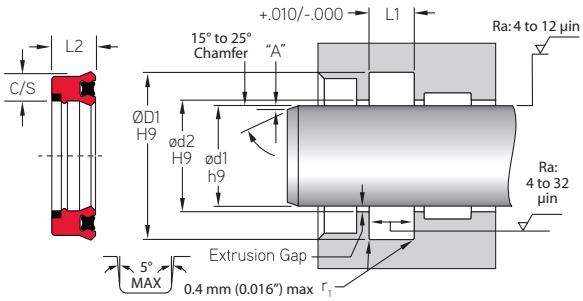
A product of MFP Seals.

XPRA - X-PAC® LOADED B-LIP U-CUP WITH ANTI-EXTRUSION RING

XPRA B-Lip X-PAC® U-Cup is a versatile reciprocating seal for linear rod applications, up to 690 bar (10,000 psi). The rubber expander creates a compression style seal while still operating as a pressure actuated U-Cup design. The result is enhanced low pressure sealing. The XPRA X-PAC® offers Twin-Lip design for seal stability as well as an Anti-Extrusion Ring to assist with side loads and stop extrusion under extreme pressure spikes. MFP Seals' X-PAC® U-Cups feature a knife trimmed sealing lip for increased sealability.



The standard compound for this seal is U2151, with an N6014 X-Ring Expander, and M1000 Anti-Extrusion Ring. It is also available in compounds U2150, U4150, and H2155. An M1001 Anti-Extrusion Ring is also available.



MFP PART NUMBER

XPRA-187-01.500-312BU2151

SEAL TYPE | CROSS SECTION | ød1 | L2 PROFILE STYLE | COMPOUND

Pressure: 690 bar (10,000 psi)* **Max. Velocity:** 0.5 m/s (< 1.6 ft./s)

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

MAXIMUM EXTRUSION GAP RECOMMENDATION

MFP SERIES	ROD DIAMETER	GROOVE DIAMETER	GROOVE WIDTH	RADIAL CLEARANCE EXTRUSION GAP			
	ød1 h9	**ØD1** H9	**L1** +.010	2300psi	3600psi	5800psi	10000psi
XPRA-187	1.500 - 2.000	ød1 + .375	.312 - .375	0.020	0.012	0.008	0.005
XPRA-250	1.750 - 3.500	ød1 + .500	0.375	0.025	0.018	0.012	0.007
XPRA-312	3.000 - 3.500	ød1 + .625	0.500	0.035	0.028	0.016	0.010
XPRA-375	3.000	ød1 + .750	0.625	0.035	0.028	0.016	0.010

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.

	NOMINAL SIZE			ACTUAL SIZE - ROD OR PISTON APPLICATION				
MFP PART NUMBER	ID	OD	HT	ød1	ød2	ØD1	L1	L2
.187" - C/S				h9	H9	H9	+.010/-.000	
XPRA-187-01.250-250B	1 1/4	1 5/8	1/4	1.125	1.126	1.625	0.275	0.250
XPRA-187-01.500-250B	1 1/2	1 7/8	1/4	1.500	1.501	1.875	0.275	0.250
XPRA-187-01.500-312B	1 1/2	1 7/8	5/16	1.500	1.501	1.875	0.344	0.312
XPRA-187-01.750-375B	1 3/4	2 1/8	3/8	1.750	1.751	2.125	0.413	0.375
XPRA-187-02.000-375B	2	1 7/8	3/8	2.000	2.001	2.375	0.413	0.375

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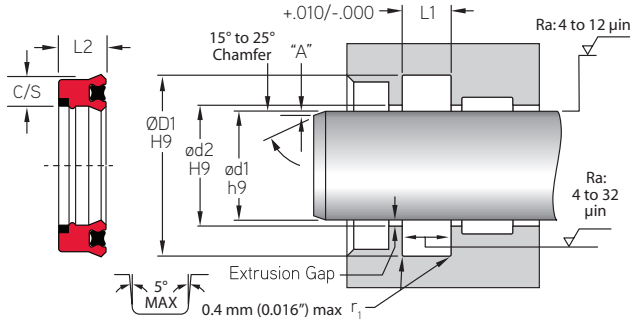

	NOMINAL SIZE			ACTUAL SIZE - ROD OR PISTON APPLICATION				
MFP PART NUMBER	ID	OD	HT	ød1	ød2	ØD1	L1	L2
.250" - C/S				h9	H9	H9	+.010/-.000	
XPRA-250-01.500-375B	1 1/2	2	3/8	1.500	1.501	2.000	0.413	0.375
XPRA-250-01.750-375B	1 3/4	2 1/4	3/8	1.750	1.751	2.250	0.413	0.375
XPRA-250-02.000-375B	2	2 1/2	3/8	2.000	2.001	2.500	0.413	0.375
XPRA-250-02.250-375B	2 1/4	2 3/4	3/8	2.250	2.251	2.750	0.413	0.375
XPRA-250-02.500-375B	2 1/2	3	3/8	2.500	2.501	3.000	0.413	0.375
XPRA-250-02.750-375B	2 3/4	3 1/4	3/8	2.750	2.751	3.250	0.413	0.375
XPRA-250-03.000-375B	3	3 1/2	3/8	3.000	3.001	3.500	0.413	0.375
XPRA-250-03.500-375B	3 1/2	4	3/8	3.500	3.501	4.000	0.413	0.375
XPRA-250-03.625-375B	3 5/8	4 1/8	3/8	3.625	3.626	4.125	0.413	0.375
XPRA-250-04.000-375B	4	4 1/2	3/8	4.000	4.001	4.500	0.413	0.375
XPRA-250-04.000-562B	4	4 1/2	9/16	4.000	4.001	4.500	0.619	0.562
XPRA-250-05.000-562B	5	5 1/2	9/16	5.000	5.001	5.500	0.619	0.562
.312" - C/S				h9	H9	H9	+.010/-.000	
XPRA-312-02.500-500B	2 1/2	3 1/8	1/2	2.500	2.501	3.125	0.550	0.500
XPRA-312-03.000-500B	3	3 5/8	1/2	3.000	3.001	3.625	0.550	0.500
XPRA-312-03.500-500B	3 1/2	3 1/8	1/2	3.500	3.501	4.125	0.550	0.500
XPRA-312-04.000-562B	4	4 5/8	9/16	4.000	4.001	4.625	0.619	0.562
XPRA-312-04.500-625B	4 1/2	5 1/8	9/16	4.500	4.501	5.125	0.688	0.625
.375" - C/S				h9	H9	H9	+.010/-.000	
XPRA-375-03.000-625B	3	3 3/4	5/8	3.000	3.001	3.750	0.688	0.625

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

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.