# X-PAC® Loaded B-Lip - Symmetrical U-Cup

*A product of MFP Seals.*

MFPSEALS®
www.mfpseals.com

## XP - X-PAC® LOADED B-LIP SYMMETRICAL U-CUP

X-PAC® U-Cups are a very versatile reciprocating seal design, for use up to 350 bar (5,000 psi). The rubber expander creates a compression style seal while still operating as a pressure actuated U-Cup design. The result is better low-pressure sealing and less startup leakage. The primary function of a B-Lip X-PAC® is for linear rod applications. However, they can also be used for piston applications when straight lip tooling is not available. MFP Seals' X-PAC® U-Cups feature a knife trimmed sealing lip for increased sealability.

***This seal is available in the following compounds: U2145, U2150, U2151, U2162, U4150, H2155, V7675, N6021, N6023, N6034, with an Expander in N6014, V7100 or V7155.***



B Lip

## MFP PART NUMBER

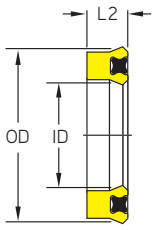
XP-125-00.375-125BU2145

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

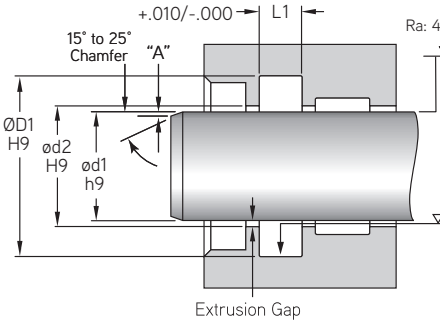
PROFILE STYLE CODES: B = B Lip, No Code for Straight Lip (Standard)



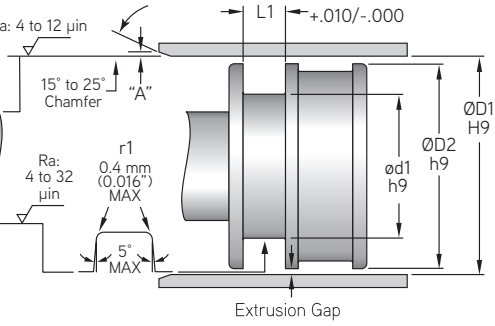
### PROFILE




### ROD APPLICATION




### PISTON APPLICATION




**Pressure:** 350 bar (5,000 psi) **Max. Velocity:** 0.5 m/s (< 1.6 ft./s)

## 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 |
| XP-125 | .750 - 2.750 | ød1 + .250 | .138 - .413 | 0.008 | 0.004 | - |
| XP-156 | 1.375 | ød1 + .312 | .172 | 0.014 | 0.008 | - |
| XP-187 | 0.625 - 3.750 | ød1 + .375 | .207 - .413 | 0.014 | 0.008 | - |
| XP-250 | 0.500 - 6.500 | ød1 + .500 | .275 - .825 | 0.018 | 0.010 | 0.004 |
| XP-312 | 0.875 - 5.500 | ød1 + .624 | .344 - .963 | 0.020 | 0.012 | 0.006 |
| XP-375 | 1.250 - 8.750 | ød1 + .750 | .413 - .688 | 0.020 | 0.012 | 0.006 |
| XP-500 | 2.750 - 3.000 | ød1 + 1.000 | .825 | 0.024 | 0.012 | 0.008 |

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.

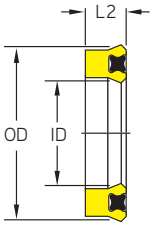
**PARTS LIST BEGINS ON NEXT PAGE >**

Compound information available on pages 20-37.

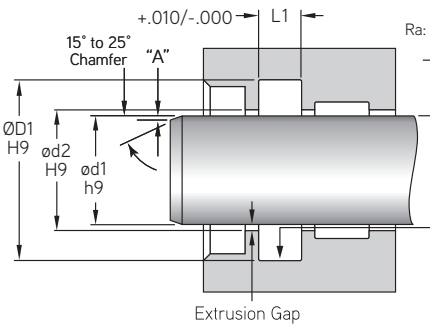


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

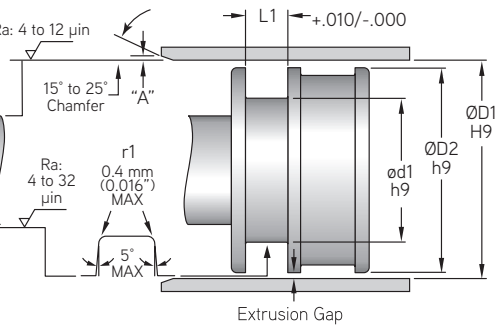
## PROFILE




## ROD APPLICATION

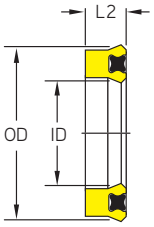



## PISTON APPLICATION

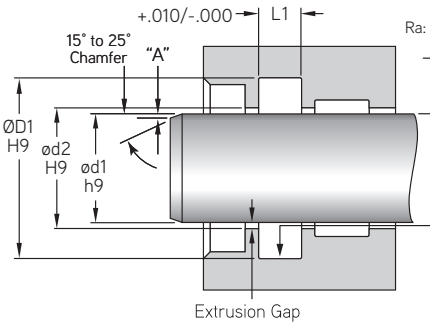



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .125" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-125-00.125-125B | B-LIP | 0.125 | 0.126 | 0.375 | 0.374 | 0.125 | 0.138 |
| XP-125-00.125-250B | B-LIP | 0.125 | 0.126 | 0.375 | 0.374 | 0.250 | 0.275 |
| XP-125-00.187-125B | B-LIP | 0.187 | 0.188 | 0.437 | 0.436 | 0.125 | 0.138 |
| XP-125-00.187-250B | B-LIP | 0.187 | 0.188 | 0.437 | 0.436 | 0.250 | 0.275 |
| XP-125-00.250-125B | B-LIP | 0.250 | 0.251 | 0.500 | 0.499 | 0.125 | 0.138 |
| XP-125-00.250-250B | B-LIP | 0.250 | 0.251 | 0.500 | 0.499 | 0.250 | 0.275 |
| XP-125-00.282-250B | B-LIP | 0.282 | 0.283 | 0.532 | 0.531 | 0.250 | 0.275 |
| XP-125-00.312-125B | B-LIP | 0.312 | 0.313 | 0.562 | 0.531 | 0.125 | 0.138 |
| XP-125-00.312-250B | B-LIP | 0.312 | 0.313 | 0.562 | 0.561 | 0.250 | 0.275 |
| XP-125-00.375-125B | B-LIP | 0.375 | 0.376 | 0.625 | 0.561 | 0.125 | 0.138 |
| XP-125-00.375-250B | B-LIP | 0.375 | 0.376 | 0.625 | 0.624 | 0.250 | 0.275 |
| XP-125-00.437-125B | B-LIP | 0.437 | 0.438 | 0.687 | 0.686 | 0.125 | 0.138 |
| XP-125-00.437-250B | B-LIP | 0.437 | 0.438 | 0.687 | 0.686 | 0.250 | 0.275 |
| XP-125-00.437-375B | B-LIP | 0.437 | 0.438 | 0.687 | 0.686 | 0.375 | 0.413 |
| XP-125-00.500-125B | B-LIP | 0.500 | 0.501 | 0.750 | 0.749 | 0.125 | 0.138 |
| XP-125-00.500-175B | B-LIP | 0.500 | 0.501 | 0.750 | 0.749 | 0.175 | 0.193 |
| XP-125-00.500-250B | B-LIP | 0.500 | 0.501 | 0.750 | 0.749 | 0.250 | 0.275 |
| XP-125-00.562-125B | B-LIP | 0.562 | 0.563 | 0.812 | 0.811 | 0.125 | 0.138 |
| XP-125-00.562-250B | B-LIP | 0.562 | 0.563 | 0.812 | 0.811 | 0.250 | 0.275 |
| XP-125-00.625-125B | B-LIP | 0.625 | 0.626 | 0.875 | 0.874 | 0.125 | 0.138 |
| XP-125-00.625-178B | B-LIP | 0.625 | 0.626 | 0.875 | 0.874 | 0.178 | 0.196 |
| XP-125-00.625-250B | B-LIP | 0.625 | 0.626 | 0.875 | 0.874 | 0.250 | 0.275 |
| XP-125-00.687-125B | B-LIP | 0.687 | 0.688 | 0.937 | 0.936 | 0.125 | 0.138 |
| XP-125-00.687-250B | B-LIP | 0.687 | 0.688 | 0.937 | 0.936 | 0.250 | 0.275 |
| XP-125-00.750-125B | B-LIP | 0.750 | 0.751 | 1.000 | 0.999 | 0.125 | 0.138 |
| XP-125-00.750-178B | B-LIP | 0.750 | 0.751 | 1.000 | 0.999 | 0.178 | 0.196 |
| XP-125-00.750-187B | B-LIP | 0.750 | 0.751 | 1.000 | 0.999 | 0.187 | 0.207 |
| XP-125-00.750-250B | B-LIP | 0.750 | 0.751 | 1.000 | 0.999 | 0.250 | 0.275 |
| XP-125-00.812-125B | B-LIP | 0.812 | 0.813 | 1.062 | 1.061 | 0.125 | 0.138 |
| XP-125-00.812-250B | B-LIP | 0.812 | 0.813 | 1.062 | 1.061 | 0.250 | 0.275 |
| XP-125-00.875-125B | B-LIP | 0.875 | 0.876 | 1.125 | 1.124 | 0.125 | 0.138 |
| XP-125-00.875-250B | B-LIP | 0.875 | 0.876 | 1.125 | 1.124 | 0.250 | 0.275 |
| XP-125-00.937-125B | B-LIP | 0.937 | 0.938 | 1.223 | 1.222 | 0.125 | 0.138 |
| XP-125-00.937-250B | B-LIP | 0.937 | 0.938 | 1.223 | 1.222 | 0.250 | 0.275 |
| XP-125-01.000-125B | B-LIP | 1.000 | 1.001 | 1.250 | 1.249 | 0.125 | 0.138 |

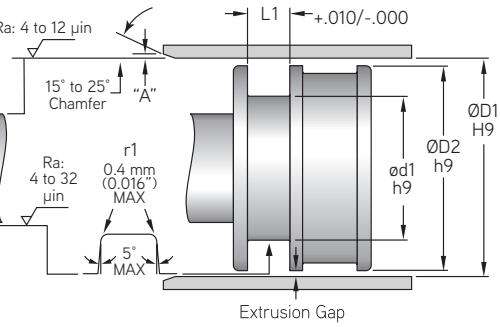
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .125" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-125-01.000-187B | B-LIP | 1.000 | 1.001 | 1.250 | 1.249 | 0.187 | 0.207 |
| XP-125-01.000-250B | B-LIP | 1.000 | 1.001 | 1.250 | 1.249 | 0.250 | 0.275 |
| XP-125-01.062-125B | B-LIP | 1.062 | 1.063 | 1.312 | 1.311 | 0.125 | 0.138 |
| XP-125-01.062-250B | B-LIP | 1.062 | 1.063 | 1.312 | 1.311 | 0.250 | 0.275 |
| XP-125-01.125-125B | B-LIP | 1.125 | 1.126 | 1.375 | 1.374 | 0.125 | 0.138 |
| XP-125-01.125-187B | B-LIP | 1.125 | 1.126 | 1.375 | 1.374 | 0.187 | 0.207 |
| XP-125-01.125-250B | B-LIP | 1.125 | 1.126 | 1.375 | 1.374 | 0.250 | 0.275 |
| XP-125-01.187-125B | B-LIP | 1.187 | 1.188 | 1.437 | 1.436 | 0.125 | 0.138 |
| XP-125-01.187-178B | B-LIP | 1.187 | 1.188 | 1.437 | 1.436 | 0.178 | 0.196 |
| XP-125-01.187-187B | B-LIP | 1.187 | 1.188 | 1.437 | 1.436 | 0.187 | 0.207 |
| XP-125-01.187-250B | B-LIP | 1.187 | 1.188 | 1.437 | 1.436 | 0.250 | 0.275 |
| XP-125-01.250-125B | B-LIP | 1.250 | 1.251 | 1.500 | 1.499 | 0.125 | 0.138 |
| XP-125-01.250-187B | B-LIP | 1.250 | 1.251 | 1.500 | 1.499 | 0.187 | 0.207 |
| XP-125-01.250-250B | B-LIP | 1.250 | 1.251 | 1.500 | 1.499 | 0.250 | 0.275 |
| XP-125-01.312-125B | B-LIP | 1.312 | 1.313 | 1.562 | 1.561 | 0.125 | 0.138 |
| XP-125-01.312-187B | B-LIP | 1.312 | 1.313 | 1.562 | 1.561 | 0.187 | 0.207 |
| XP-125-01.375-125B | B-LIP | 1.375 | 1.376 | 1.625 | 1.624 | 0.125 | 0.138 |
| XP-125-01.375-250B | B-LIP | 1.375 | 1.376 | 1.625 | 1.624 | 0.250 | 0.275 |
| XP-125-01.437-125B | B-LIP | 1.437 | 1.438 | 1.687 | 1.686 | 0.125 | 0.138 |
| XP-125-01.437-250B | B-LIP | 1.437 | 1.438 | 1.687 | 1.686 | 0.250 | 0.275 |
| XP-125-01.500-125B | B-LIP | 1.500 | 1.501 | 1.750 | 1.749 | 0.125 | 0.138 |
| XP-125-01.500-187B | B-LIP | 1.500 | 1.501 | 1.750 | 1.749 | 0.187 | 0.207 |
| XP-125-01.500-250B | B-LIP | 1.500 | 1.501 | 1.750 | 1.749 | 0.250 | 0.275 |
| XP-125-01.625-125B | B-LIP | 1.625 | 1.626 | 1.875 | 1.874 | 0.125 | 0.138 |
| XP-125-01.750-125B | B-LIP | 1.750 | 1.751 | 2.000 | 1.999 | 0.125 | 0.138 |
| XP-125-01.750-250B | B-LIP | 1.750 | 1.751 | 2.000 | 1.999 | 0.250 | 0.275 |
| XP-125-02.000-250B | B-LIP | 2.000 | 2.001 | 2.250 | 2.249 | 0.250 | 0.275 |
| XP-125-02.375-125B | B-LIP | 2.375 | 2.376 | 2.625 | 2.624 | 0.125 | 0.138 |
| XP-125-02.375-187B | B-LIP | 2.375 | 2.376 | 2.625 | 2.624 | 0.187 | 0.207 |
| XP-125-02.500-125B | B-LIP | 2.500 | 2.501 | 2.750 | 2.749 | 0.125 | 0.138 |
| XP-125-02.500-250B | B-LIP | 2.500 | 2.501 | 2.750 | 2.749 | 0.250 | 0.275 |
| XP-125-02.750-250B | B-LIP | 2.750 | 2.751 | 3.000 | 2.999 | 0.250 | 0.275 |
| XP-125-02.750-375B | B-LIP | 2.750 | 2.751 | 3.000 | 2.999 | 0.375 | 0.413 |
| XP-125-03.000-375B | B-LIP | 3.000 | 3.001 | 3.250 | 3.249 | 0.375 | 0.413 |
| XP-125-03.250-125B | B-LIP | 3.250 | 3.251 | 3.500 | 3.499 | 0.125 | 0.138 |

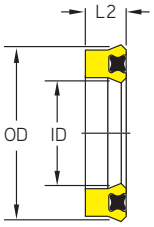

Compound information available on pages 20-37.



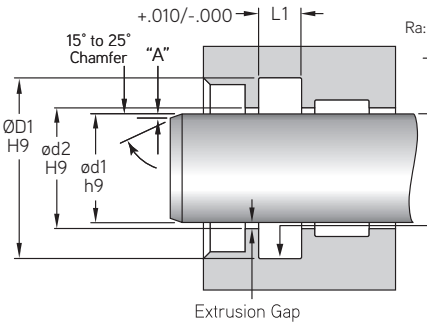


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

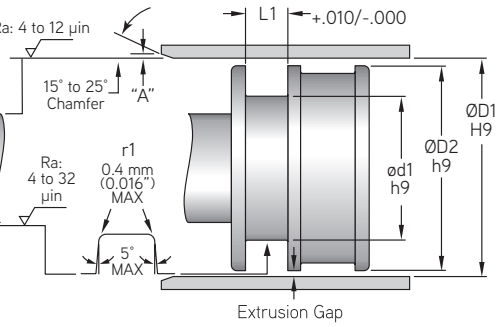
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION



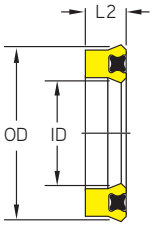

| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .125" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-125-03.625-187B | B-LIP | 3.625 | 3.626 | 3.875 | 3.874 | 0.187 | 0.207 |
| XP-125-03.750-250B | B-LIP | 3.750 | 3.751 | 4.000 | 3.999 | 0.250 | 0.275 |
| XP-125-04.000-125B | B-LIP | 4.000 | 4.001 | 4.250 | 4.249 | 0.125 | 0.138 |
| XP-125-04.250-125B | B-LIP | 4.250 | 4.251 | 4.500 | 4.499 | 0.125 | 0.138 |
| XP-125-04.500-187B | B-LIP | 4.500 | 4.501 | 4.750 | 4.749 | 0.187 | 0.207 |
| XP-125-04.750-250B | B-LIP | 4.750 | 4.751 | 5.000 | 4.999 | 0.250 | 0.275 |
| XP-125-05.000-250B | B-LIP | 5.000 | 5.001 | 5.250 | 5.249 | 0.250 | 0.275 |
| XP-125-06.250-125B | B-LIP | 6.250 | 6.251 | 6.500 | 6.499 | 0.125 | 0.138 |
| .156" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-156-01.000-156B | B-LIP | 1.000 | 1.001 | 1.312 | 1.311 | 0.156 | 0.172 |
| XP-156-01.000-218B | B-LIP | 1.000 | 1.001 | 1.312 | 1.311 | 0.218 | 0.241 |
| XP-156-01.000-234B | B-LIP | 1.000 | 1.001 | 1.312 | 1.311 | 0.234 | 0.258 |
| XP-156-01.000-250B | B-LIP | 1.000 | 1.001 | 1.312 | 1.311 | 0.250 | 0.275 |
| XP-156-01.187-156B | B-LIP | 1.187 | 1.188 | 1.500 | 1.499 | 0.156 | 0.172 |
| XP-156-01.375-156B | B-LIP | 1.375 | 1.376 | 0.169 | 1.687 | 0.156 | 0.172 |
| XP-156-01.375-218B | B-LIP | 1.375 | 1.376 | 1.688 | 1.687 | 0.218 | 0.241 |
| XP-156-01.375-281B | B-LIP | 1.375 | 1.376 | 1.688 | 1.687 | 0.281 | 0.309 |
| XP-156-01.500-312B | B-LIP | 1.500 | 1.501 | 1.813 | 1.812 | 0.312 | 0.344 |
| .187" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-187-00.187-187B | B-LIP | 0.187 | 0.188 | 0.562 | 0.561 | 0.187 | 0.207 |
| XP-187-00.250-187B | B-LIP | 0.250 | 0.251 | 0.625 | 0.624 | 0.187 | 0.207 |
| XP-187-00.312-187B | B-LIP | 0.312 | 0.313 | 0.688 | 0.687 | 0.187 | 0.207 |
| XP-187-00.312-312B | B-LIP | 0.312 | 0.313 | 0.688 | 0.687 | 0.312 | 0.344 |
| XP-187-00.375-187B | B-LIP | 0.375 | 0.376 | 0.750 | 0.749 | 0.187 | 0.207 |
| XP-187-00.375-312B | B-LIP | 0.375 | 0.376 | 0.750 | 0.749 | 0.312 | 0.344 |
| XP-187-00.500-187B | B-LIP | 0.500 | 0.501 | 0.875 | 0.874 | 0.187 | 0.207 |
| XP-187-00.500-250B | B-LIP | 0.500 | 0.501 | 0.875 | 0.874 | 0.250 | 0.275 |
| XP-187-00.500-312B | B-LIP | 0.500 | 0.501 | 0.875 | 0.874 | 0.312 | 0.344 |
| XP-187-00.562-225B | B-LIP | 0.562 | 0.563 | 0.937 | 0.936 | 0.225 | 0.248 |
| XP-187-00.562-312B | B-LIP | 0.562 | 0.563 | 0.937 | 0.936 | 0.312 | 0.344 |
| XP-187-00.625-187B | B-LIP | 0.625 | 0.626 | 1.000 | 0.999 | 0.187 | 0.207 |
| XP-187-00.625-250B | B-LIP | 0.625 | 0.626 | 1.000 | 0.999 | 0.250 | 0.275 |
| XP-187-00.625-312B | B-LIP | 0.625 | 0.626 | 1.000 | 0.999 | 0.312 | 0.344 |
| XP-187-00.625-375B | B-LIP | 0.625 | 0.626 | 1.000 | 0.999 | 0.375 | 0.413 |
| XP-187-00.687-187B | B-LIP | 0.687 | 0.688 | 1.062 | 1.061 | 0.187 | 0.207 |

# X-PAC® Loaded B-Lip - Symmetrical U-Cup

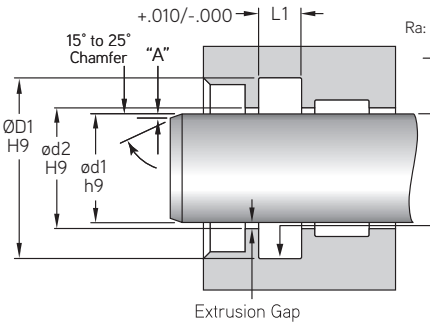
*A product of MFP Seals.*

MFP SEALS
www.mfpseals.com

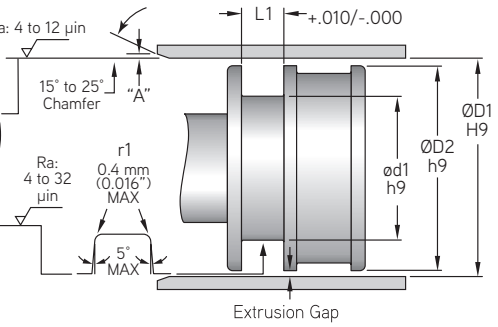
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .187" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-187-00.687-312B | B-LIP | 0.687 | 0.688 | 1.062 | 1.061 | 0.312 | 0.344 |
| XP-187-00.750-187B | B-LIP | 0.750 | 0.751 | 1.125 | 1.124 | 0.187 | 0.207 |
| XP-187-00.750-312B | B-LIP | 0.750 | 0.751 | 1.125 | 1.124 | 0.312 | 0.344 |
| XP-187-00.812-312B | B-LIP | 0.812 | 0.813 | 1.187 | 1.186 | 0.312 | 0.344 |
| XP-187-00.875-187B | B-LIP | 0.875 | 0.876 | 1.250 | 1.249 | 0.187 | 0.207 |
| XP-187-00.875-312B | B-LIP | 0.875 | 0.876 | 1.250 | 1.249 | 0.312 | 0.344 |
| XP-187-00.937-312B | B-LIP | 0.937 | 0.938 | 1.312 | 1.311 | 0.312 | 0.344 |
| XP-187-01.000-187B | B-LIP | 1.000 | 1.001 | 1.375 | 1.374 | 0.187 | 0.207 |
| XP-187-01.000-250B | B-LIP | 1.000 | 1.001 | 1.375 | 1.374 | 0.250 | 0.275 |
| XP-187-01.000-266B | B-LIP | 1.000 | 1.001 | 1.375 | 1.374 | 0.266 | 0.293 |
| XP-187-01.000-312B | B-LIP | 1.000 | 1.001 | 1.375 | 1.374 | 0.312 | 0.344 |
| XP-187-01.000-375B | B-LIP | 1.000 | 1.001 | 1.375 | 1.374 | 0.375 | 0.413 |
| XP-187-01.062-187B | B-LIP | 1.062 | 1.063 | 1.437 | 1.436 | 0.187 | 0.207 |
| XP-187-01.062-312B | B-LIP | 1.062 | 1.063 | 1.437 | 1.436 | 0.312 | 0.344 |
| XP-187-01.125-187B | B-LIP | 1.125 | 1.126 | 1.500 | 1.499 | 0.187 | 0.207 |
| XP-187-01.125-250B | B-LIP | 1.125 | 1.126 | 1.500 | 1.499 | 0.250 | 0.275 |
| XP-187-01.125-312B | B-LIP | 1.125 | 1.126 | 1.500 | 1.499 | 0.312 | 0.344 |
| XP-187-01.125-375B | B-LIP | 1.125 | 1.126 | 1.500 | 1.499 | 0.375 | 0.413 |
| XP-187-01.187-187B | B-LIP | 1.187 | 1.188 | 1.562 | 1.561 | 0.187 | 0.207 |
| XP-187-01.187-250B | B-LIP | 1.187 | 1.188 | 1.562 | 1.561 | 0.250 | 0.275 |
| XP-187-01.187-312B | B-LIP | 1.187 | 1.188 | 1.562 | 1.561 | 0.312 | 0.344 |
| XP-187-01.250-187B | B-LIP | 1.250 | 1.251 | 1.625 | 1.624 | 0.187 | 0.207 |
| XP-187-01.250-250B | B-LIP | 1.250 | 1.251 | 1.625 | 1.624 | 0.250 | 0.275 |
| XP-187-01.250-266B | B-LIP | 1.250 | 1.251 | 1.625 | 1.624 | 0.266 | 0.293 |
| XP-187-01.250-312B | B-LIP | 1.250 | 1.251 | 1.625 | 1.624 | 0.312 | 0.344 |
| XP-187-01.250-375B | B-LIP | 1.250 | 1.251 | 1.625 | 1.624 | 0.375 | 0.413 |
| XP-187-01.312-187B | B-LIP | 1.312 | 1.313 | 1.687 | 1.686 | 0.187 | 0.207 |
| XP-187-01.312-312B | B-LIP | 1.312 | 1.313 | 1.687 | 1.686 | 0.312 | 0.344 |
| XP-187-01.375-187B | B-LIP | 1.375 | 1.376 | 1.750 | 1.749 | 0.187 | 0.207 |
| XP-187-01.375-250B | B-LIP | 1.375 | 1.376 | 1.750 | 1.749 | 0.250 | 0.275 |
| XP-187-01.375-266B | B-LIP | 1.375 | 1.376 | 1.750 | 1.749 | 0.266 | 0.293 |
| XP-187-01.375-312B | B-LIP | 1.375 | 1.376 | 1.750 | 1.749 | 0.312 | 0.344 |
| XP-187-01.375-375B | B-LIP | 1.375 | 1.376 | 1.750 | 1.749 | 0.375 | 0.413 |
| XP-187-01.437-250B | B-LIP | 1.437 | 1.438 | 1.812 | 1.811 | 0.250 | 0.275 |
| XP-187-01.437-312B | B-LIP | 1.437 | 1.438 | 1.187 | 1.186 | 0.312 | 0.344 |

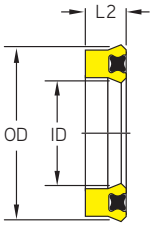


Compound information available on pages 20-37.

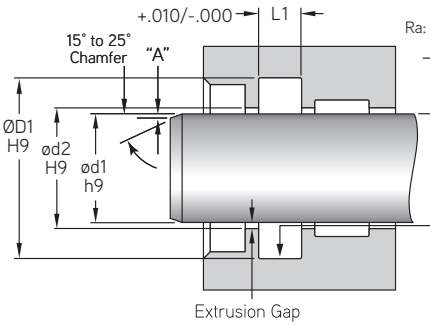


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

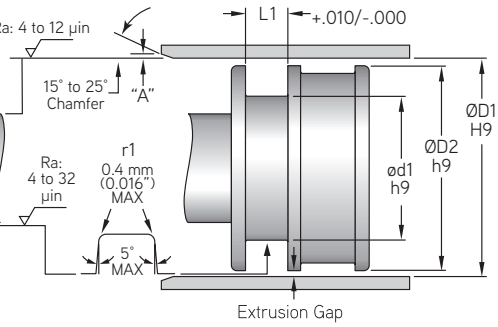
## PROFILE




## ROD APPLICATION

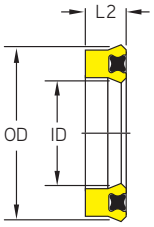



## PISTON APPLICATION

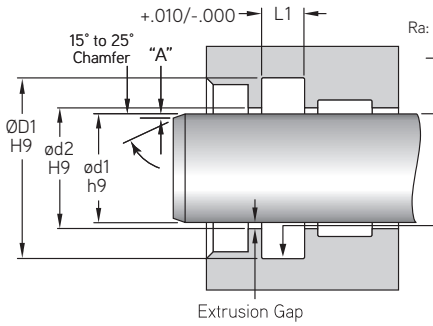



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .187" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-187-01.500-187B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.187 | 0.207 |
| XP-187-01.500-250B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.250 | 0.275 |
| XP-187-01.500-260B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.260 | 0.286 |
| XP-187-01.500-266B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.266 | 0.293 |
| XP-187-01.500-281B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.281 | 0.309 |
| XP-187-01.500-290B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.290 | 0.319 |
| XP-187-01.500-312B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.312 | 0.344 |
| XP-187-01.500-375B | B-LIP | 1.500 | 1.501 | 1.875 | 1.874 | 0.375 | 0.413 |
| XP-187-01.562-187B | B-LIP | 1.562 | 1.563 | 1.937 | 1.936 | 0.187 | 0.207 |
| XP-187-01.562-250B | B-LIP | 1.562 | 1.563 | 1.937 | 1.936 | 0.250 | 0.275 |
| XP-187-01.562-375B | B-LIP | 1.562 | 1.563 | 1.937 | 1.936 | 0.375 | 0.413 |
| XP-187-01.625-187B | B-LIP | 1.625 | 1.626 | 2.000 | 1.999 | 0.187 | 0.207 |
| XP-187-01.625-250B | B-LIP | 1.625 | 1.626 | 2.000 | 1.999 | 0.250 | 0.275 |
| XP-187-01.625-266B | B-LIP | 1.625 | 1.636 | 2.000 | 1.999 | 0.266 | 0.293 |
| XP-187-01.625-312B | B-LIP | 1.625 | 1.626 | 2.000 | 1.999 | 0.312 | 0.344 |
| XP-187-01.625-375B | B-LIP | 1.625 | 1.626 | 2.000 | 1.999 | 0.375 | 0.413 |
| XP-187-01.687-187B | B-LIP | 1.687 | 1.688 | 2.062 | 2.061 | 0.187 | 0.207 |
| XP-187-01.750-187B | B-LIP | 1.750 | 1.751 | 2.125 | 2.124 | 0.187 | 0.207 |
| XP-187-01.750-250B | B-LIP | 1.750 | 1.751 | 2.125 | 2.124 | 0.250 | 0.275 |
| XP-187-01.750-266B | B-LIP | 1.750 | 1.751 | 2.125 | 2.124 | 0.266 | 0.293 |
| XP-187-01.750-275B | B-LIP | 1.750 | 1.751 | 2.125 | 2.124 | 0.275 | 0.303 |
| XP-187-01.750-312B | B-LIP | 1.750 | 1.751 | 2.125 | 2.124 | 0.312 | 0.344 |
| XP-187-01.750-375B | B-LIP | 1.750 | 1.751 | 2.125 | 2.124 | 0.375 | 0.413 |
| XP-187-01.812-187B | B-LIP | 1.812 | 1.813 | 2.187 | 2.186 | 0.187 | 0.207 |
| XP-187-01.875-187B | B-LIP | 1.875 | 1.876 | 2.250 | 2.249 | 0.187 | 0.207 |
| XP-187-01.875-250B | B-LIP | 1.875 | 1.876 | 2.250 | 2.249 | 0.250 | 0.275 |
| XP-187-01.875-266B | B-LIP | 1.875 | 1.876 | 2.250 | 2.249 | 0.266 | 0.293 |
| XP-187-01.875-312B | B-LIP | 1.875 | 1.876 | 2.250 | 2.249 | 0.312 | 0.344 |
| XP-187-01.875-375B | B-LIP | 1.875 | 1.876 | 2.250 | 2.249 | 0.375 | 0.413 |
| XP-187-02.000-187B | B-LIP | 2.000 | 2.001 | 2.375 | 2.374 | 0.187 | 0.207 |
| XP-187-02.000-230B | B-LIP | 2.000 | 2.001 | 2.375 | 2.374 | 0.230 | 0.253 |
| XP-187-02.000-250B | B-LIP | 2.000 | 2.001 | 2.375 | 2.374 | 0.250 | 0.275 |
| XP-187-02.000-312B | B-LIP | 2.000 | 2.001 | 2.375 | 2.374 | 0.312 | 0.344 |
| XP-187-02.000-355B | B-LIP | 2.000 | 2.001 | 2.375 | 2.374 | 0.355 | 0.301 |
| XP-187-02.000-375B | B-LIP | 2.000 | 2.001 | 2.375 | 2.374 | 0.375 | 0.413 |

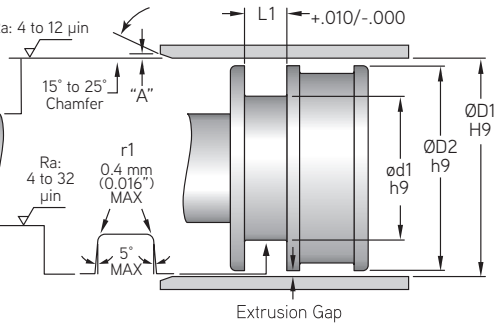
## PROFILE




## ROD APPLICATION

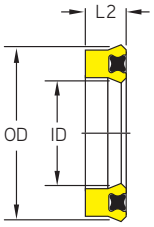



## PISTON APPLICATION

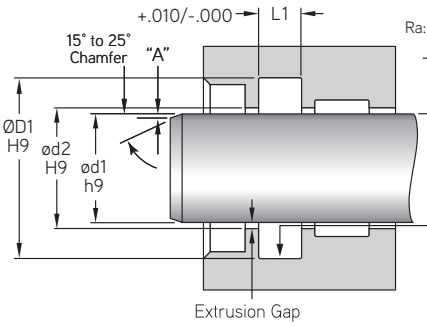



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .187" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-187-02.125-187B | B-LIP | 2.125 | 2.126 | 2.500 | 2.499 | 0.187 | 0.207 |
| XP-187-02.125-250B | B-LIP | 2.125 | 2.126 | 2.500 | 2.499 | 0.250 | 0.275 |
| XP-187-02.125-266B | B-LIP | 2.125 | 2.126 | 2.500 | 2.499 | 0.266 | 0.293 |
| XP-187-02.125-312B | B-LIP | 2.125 | 2.126 | 2.500 | 2.499 | 0.312 | 0.344 |
| XP-187-02.125-375B | B-LIP | 2.125 | 2.126 | 2.500 | 2.499 | 0.375 | 0.413 |
| XP-187-02.187-375B | B-LIP | 2.187 | 2.188 | 2.562 | 2.561 | 0.375 | 0.413 |
| XP-187-02.250-187B | B-LIP | 2.250 | 2.251 | 2.625 | 2.624 | 0.187 | 0.207 |
| XP-187-02.250-250B | B-LIP | 2.250 | 2.251 | 2.625 | 2.624 | 0.250 | 0.275 |
| XP-187-02.250-312B | B-LIP | 2.225 | 2.251 | 2.625 | 2.624 | 0.312 | 0.344 |
| XP-187-02.250-375B | B-LIP | 2.250 | 2.251 | 2.625 | 2.624 | 0.375 | 0.413 |
| XP-187-02.375-187B | B-LIP | 2.375 | 2.376 | 2.750 | 2.749 | 0.187 | 0.207 |
| XP-187-02.375-250B | B-LIP | 2.375 | 2.376 | 2.750 | 2.749 | 0.250 | 0.275 |
| XP-187-02.375-266B | B-LIP | 2.375 | 2.376 | 2.750 | 2.749 | 0.266 | 0.293 |
| XP-187-02.375-312B | B-LIP | 2.375 | 2.376 | 2.750 | 2.749 | 0.312 | 0.344 |
| XP-187-02.375-375B | B-LIP | 2.375 | 2.376 | 2.750 | 2.749 | 0.375 | 0.413 |
| XP-187-02.375-500B | B-LIP | 2.375 | 2.376 | 2.750 | 2.749 | 0.500 | 0.550 |
| XP-187-02.437-187B | B-LIP | 2.437 | 2.438 | 2.812 | 2.811 | 0.187 | 0.207 |
| XP-187-02.500-187B | B-LIP | 2.500 | 2.501 | 2.875 | 2.874 | 0.187 | 0.207 |
| XP-187-02.500-250B | B-LIP | 2.500 | 2.501 | 2.875 | 2.874 | 0.250 | 0.275 |
| XP-187-02.500-266B | B-LIP | 2.500 | 2.501 | 2.875 | 2.874 | 0.266 | 0.293 |
| XP-187-02.500-312B | B-LIP | 2.500 | 2.501 | 2.875 | 2.874 | 0.312 | 0.344 |
| XP-187-02.500-375B | B-LIP | 2.500 | 2.501 | 2.875 | 2.874 | 0.375 | 0.413 |
| XP-187-02.625-187B | B-LIP | 2.625 | 2.626 | 3.000 | 2.999 | 0.187 | 0.207 |
| XP-187-02.625-250B | B-LIP | 2.625 | 2.626 | 3.000 | 2.999 | 0.250 | 0.275 |
| XP-187-02.625-266B | B-LIP | 2.625 | 2.626 | 3.000 | 2.999 | 0.266 | 0.293 |
| XP-187-02.625-281B | B-LIP | 2.625 | 2.626 | 3.000 | 2.999 | 0.281 | 0.309 |
| XP-187-02.625-375B | B-LIP | 2.625 | 2.626 | 3.000 | 2.999 | 0.375 | 0.413 |
| XP-187-02.750-187B | B-LIP | 2.750 | 2.751 | 3.125 | 3.124 | 0.187 | 0.207 |
| XP-187-02.750-312B | B-LIP | 2.750 | 2.751 | 3.125 | 3.124 | 0.312 | 0.344 |
| XP-187-02.750-375B | B-LIP | 2.750 | 2.751 | 3.125 | 3.124 | 0.375 | 0.413 |
| XP-187-02.875-187B | B-LIP | 2.875 | 2.876 | 3.250 | 3.249 | 0.187 | 0.207 |
| XP-187-02.875-250B | B-LIP | 2.875 | 2.876 | 3.250 | 3.249 | 0.250 | 0.275 |
| XP-187-02.875-266B | B-LIP | 2.875 | 2.876 | 3.250 | 3.249 | 0.375 | 0.413 |
| XP-187-02.875-375B | B-LIP | 2.875 | 2.876 | 3.250 | 3.249 | 0.375 | 0.413 |
| XP-187-03.000-187B | B-LIP | 3.000 | 3.001 | 3.375 | 3.374 | 0.187 | 0.207 |

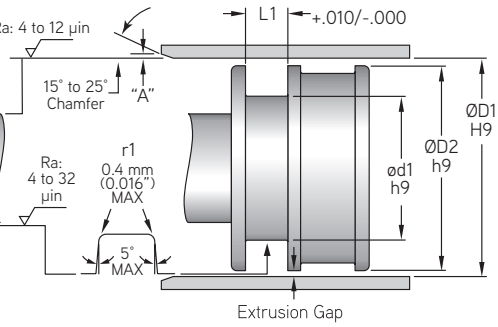
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION



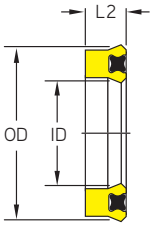

| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .187" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-187-03.000-312B | B-LIP | 3.000 | 3.001 | 3.375 | 3.374 | 0.312 | 0.344 |
| XP-187-03.000-375B | B-LIP | 3.000 | 3.001 | 3.375 | 3.374 | 0.375 | 0.413 |
| XP-187-03.125-187B | B-LIP | 3.125 | 3.126 | 3.500 | 3.499 | 0.187 | 0.207 |
| XP-187-03.125-250B | B-LIP | 3.125 | 3.126 | 3.500 | 3.499 | 0.250 | 0.275 |
| XP-187-03.125-312B | B-LIP | 3.125 | 3.126 | 3.500 | 3.499 | 0.312 | 0.344 |
| XP-187-03.125-375B | B-LIP | 3.125 | 3.126 | 3.500 | 3.499 | 0.375 | 0.413 |
| XP-187-03.250-375B | B-LIP | 3.250 | 3.251 | 3.625 | 3.624 | 0.375 | 0.413 |
| XP-187-03.250-500B | B-LIP | 3.250 | 3.251 | 3.625 | 3.624 | 0.500 | 0.550 |
| XP-187-03.375-187B | B-LIP | 3.375 | 3.376 | 3.750 | 3.749 | 0.187 | 0.207 |
| XP-187-03.375-250B | B-LIP | 3.375 | 3.376 | 3.750 | 3.749 | 0.250 | 0.275 |
| XP-187-03.375-375B | B-LIP | 3.375 | 3.376 | 3.750 | 3.749 | 0.375 | 0.413 |
| XP-187-03.500-187B | B-LIP | 3.500 | 3.501 | 3.875 | 3.874 | 0.187 | 0.207 |
| XP-187-03.500-312B | B-LIP | 3.500 | 3.501 | 3.875 | 3.874 | 0.312 | 0.344 |
| XP-187-03.500-375B | B-LIP | 3.500 | 3.501 | 3.875 | 3.874 | 0.375 | 0.413 |
| XP-187-03.625-187B | B-LIP | 3.625 | 3.626 | 4.000 | 3.999 | 0.187 | 0.207 |
| XP-187-03.625-250B | B-LIP | 3.625 | 3.626 | 4.000 | 3.999 | 0.250 | 0.275 |
| XP-187-03.625-375B | B-LIP | 3.625 | 3.626 | 4.000 | 3.999 | 0.375 | 0.413 |
| XP-187-03.750-187B | B-LIP | 3.750 | 3.751 | 4.125 | 4.124 | 0.187 | 0.207 |
| XP-187-03.750-375B | B-LIP | 3.750 | 3.751 | 4.125 | 4.124 | 0.375 | 0.413 |
| XP-187-03.875-375B | B-LIP | 3.875 | 3.876 | 4.250 | 4.249 | 0.375 | 0.413 |
| XP-187-04.000-187B | B-LIP | 4.000 | 4.001 | 4.375 | 4.374 | 0.187 | 0.207 |
| XP-187-04.000-312B | B-LIP | 4.000 | 4.001 | 4.375 | 4.374 | 0.312 | 0.344 |
| XP-187-04.000-375B | B-LIP | 4.000 | 4.001 | 4.375 | 4.374 | 0.375 | 0.413 |
| XP-187-04.125-187B | B-LIP | 4.125 | 4.126 | 4.500 | 4.499 | 0.187 | 0.207 |
| XP-187-04.125-375B | B-LIP | 4.125 | 4.126 | 4.500 | 4.499 | 0.375 | 0.413 |
| XP-187-04.250-375B | B-LIP | 4.250 | 4.251 | 4.625 | 4.624 | 0.375 | 0.413 |
| XP-187-04.375-187B | B-LIP | 4.250 | 4.251 | 4.625 | 4.624 | 0.187 | 0.207 |
| XP-187-04.375-375B | B-LIP | 4.375 | 4.376 | 4.750 | 4.749 | 0.375 | 0.413 |
| XP-187-04.500-250B | B-LIP | 4.500 | 4.501 | 4.875 | 4.874 | 0.250 | 0.275 |
| XP-187-04.500-312B | B-LIP | 4.500 | 4.501 | 4.875 | 4.874 | 0.312 | 0.344 |
| XP-187-04.500-375B | B-LIP | 4.500 | 4.501 | 4.875 | 4.874 | 0.375 | 0.413 |
| XP-187-04.750-187B | B-LIP | 4.750 | 4.751 | 5.125 | 5.124 | 0.187 | 0.207 |
| XP-187-04.750-375B | B-LIP | 4.750 | 4.751 | 5.125 | 5.124 | 0.375 | 0.413 |
| XP-187-05.000-312B | B-LIP | 5.000 | 5.001 | 5.375 | 5.374 | 0.312 | 0.344 |
| XP-187-05.000-375B | B-LIP | 5.000 | 5.001 | 5.375 | 5.374 | 0.375 | 0.413 |

# X-PAC® Loaded B-Lip - Symmetrical U-Cup

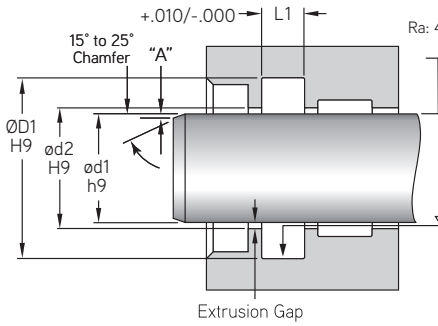
*A product of MFP Seals.*

MFPSEALS®
www.mfpseals.com

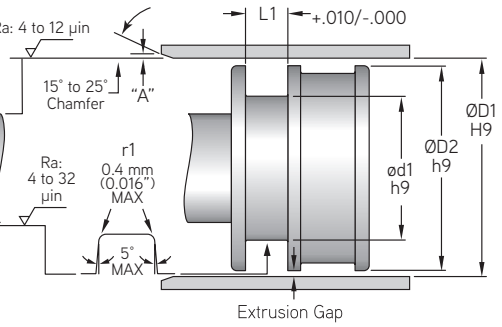
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .187" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-187-05.125-187B | B-LIP | 5.125 | 5.126 | 5.500 | 5.499 | 0.187 | 0.207 |
| XP-187-05.250-375B | B-LIP | 5.250 | 5.251 | 5.625 | 5.624 | 0.375 | 0.413 |
| XP-187-05.375-375B | B-LIP | 5.375 | 5.376 | 5.750 | 5.749 | 0.375 | 0.413 |
| XP-187-05.500-375B | B-LIP | 5.500 | 5.501 | 5.875 | 5.874 | 0.375 | 0.413 |
| XP-187-05.625-375B | B-LIP | 5.625 | 5.626 | 6.000 | 5.999 | 0.375 | 0.413 |
| XP-187-05.750-187B | B-LIP | 5.750 | 5.751 | 6.125 | 6.124 | 0.187 | 0.207 |
| XP-187-05.750-375B | B-LIP | 5.750 | 5.751 | 6.125 | 6.124 | 0.375 | 0.413 |
| XP-187-06.000-375B | B-LIP | 6.000 | 6.001 | 6.375 | 6.374 | 0.375 | 0.413 |
| XP-187-06.250-312B | B-LIP | 6.250 | 6.251 | 6.625 | 6.624 | 0.312 | 0.344 |
| XP-187-07.500-312B | B-LIP | 7.500 | 7.501 | 7.875 | 7.874 | 0.312 | 0.344 |
| .218" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-218-01.562-312B | B-LIP | 1.562 | 1.563 | 2.000 | 1.999 | 0.312 | 0.344 |
| XP-218-02.500-218B | B-LIP | 2.500 | 2.501 | 2.937 | 2.936 | 0.218 | 0.241 |
| XP-218-02.500-281B | B-LIP | 2.500 | 2.501 | 2.937 | 2.936 | 0.281 | 0.309 |
| XP-218-02.562-218B | B-LIP | 2.562 | 2.563 | 3.000 | 2.999 | 0.218 | 0.241 |
| XP-218-03.000-218B | B-LIP | 3.000 | 3.001 | 3.437 | 3.436 | 0.218 | 0.241 |
| XP-218-05.437-562B | B-LIP | 5.437 | 5.438 | 5.874 | 5.873 | 0.562 | 0.619 |
| .250" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-250-00.375-375B | B-LIP | 0.375 | 0.376 | 0.875 | 0.874 | 0.375 | 0.413 |
| XP-250-00.437-375B | B-LIP | 0.437 | 0.438 | 0.937 | 0.936 | 0.375 | 0.413 |
| XP-250-00.500-250B | B-LIP | 0.500 | 0.501 | 1.000 | 0.999 | 0.250 | 0.275 |
| XP-250-00.500-375B | B-LIP | 0.500 | 0.501 | 1.000 | 0.999 | 0.375 | 0.413 |
| XP-250-00.562-312B | B-LIP | 0.562 | 0.563 | 1.062 | 1.061 | 0.312 | 0.344 |
| XP-250-00.562-375B | B-LIP | 0.562 | 0.563 | 1.062 | 1.061 | 0.375 | 0.413 |
| XP-250-00.625-375B | B-LIP | 0.625 | 0.626 | 1.125 | 1.124 | 0.375 | 0.413 |
| XP-250-00.687-375B | B-LIP | 0.687 | 0.688 | 1.187 | 1.186 | 0.375 | 0.413 |
| XP-250-00.750-250B | B-LIP | 0.750 | 0.751 | 1.250 | 1.249 | 0.250 | 0.275 |
| XP-250-00.750-375B | B-LIP | 0.750 | 0.751 | 1.250 | 1.249 | 0.375 | 0.413 |
| XP-250-00.750-562B | B-LIP | 0.750 | 0.751 | 1.250 | 1.249 | 0.562 | 0.619 |
| XP-250-00.812-375B | B-LIP | 0.812 | 0.813 | 1.312 | 1.311 | 0.375 | 0.413 |
| XP-250-00.875-250B | B-LIP | 0.875 | 0.876 | 1.375 | 1.374 | 0.250 | 0.275 |
| XP-250-00.875-312B | B-LIP | 0.875 | 0.876 | 1.375 | 1.374 | 0.312 | 0.344 |
| XP-250-00.875-375B | B-LIP | 0.875 | 0.876 | 1.375 | 1.374 | 0.375 | 0.413 |
| XP-250-01.000-250B | B-LIP | 1.000 | 1.001 | 1.500 | 1.499 | 0.250 | 0.275 |
| XP-250-01.000-375B | B-LIP | 1.000 | 1.001 | 1.500 | 1.499 | 0.375 | 0.413 |



Compound information available on pages 20-37.

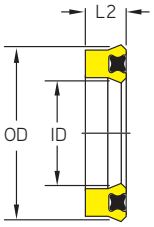


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

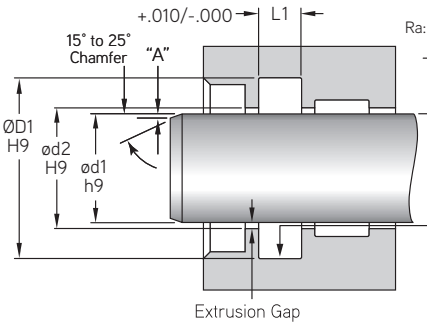




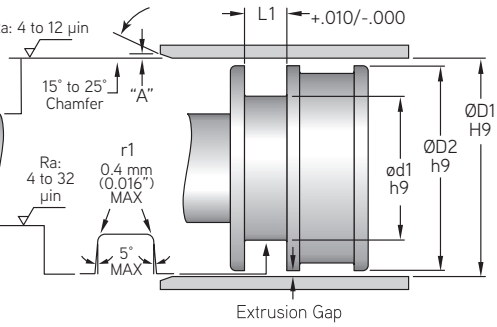
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION



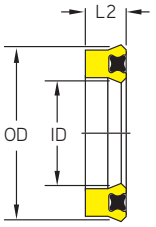

| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .250" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-250-01.125-250B | B-LIP | 1.125 | 1.126 | 1.625 | 1.624 | 0.250 | 0.275 |
| XP-250-01.125-375B | B-LIP | 1.125 | 1.126 | 1.625 | 1.624 | 0.375 | 0.413 |
| XP-250-01.250-250B | B-LIP | 1.250 | 1.251 | 1.750 | 1.749 | 0.250 | 0.275 |
| XP-250-01.250-375B | B-LIP | 1.250 | 1.251 | 1.750 | 1.749 | 0.375 | 0.413 |
| XP-250-01.312-375B | B-LIP | 1.312 | 1.313 | 1.812 | 1.811 | 0.375 | 0.413 |
| XP-250-01.375-250B | B-LIP | 1.375 | 1.376 | 1.875 | 1.874 | 0.250 | 0.275 |
| XP-250-01.375-375B | B-LIP | 1.375 | 1.376 | 1.875 | 1.874 | 0.375 | 0.413 |
| XP-250-01.437-375B | B-LIP | 1.437 | 1.438 | 1.937 | 1.936 | 0.375 | 0.413 |
| XP-250-01.500-250B | B-LIP | 1.500 | 1.501 | 2.000 | 1.999 | 0.250 | 0.275 |
| XP-250-01.500-312B | B-LIP | 1.500 | 1.501 | 2.000 | 1.999 | 0.312 | 0.344 |
| XP-250-01.500-375B | B-LIP | 1.500 | 1.501 | 2.000 | 1.999 | 0.375 | 0.413 |
| XP-250-01.500-500B | B-LIP | 1.500 | 1.501 | 2.000 | 1.999 | 0.500 | 0.550 |
| XP-250-01.500-562B | B-LIP | 1.500 | 1.501 | 2.000 | 1.999 | 0.562 | 0.619 |
| XP-250-01.562-250B | B-LIP | 1.562 | 1.563 | 2.062 | 2.061 | 0.250 | 0.275 |
| XP-250-01.562-312B | B-LIP | 1.562 | 1.563 | 2.062 | 2.061 | 0.312 | 0.344 |
| XP-250-01.625-312B | B-LIP | 1.625 | 1.626 | 2.125 | 2.124 | 0.312 | 0.344 |
| XP-250-01.625-375B | B-LIP | 1.625 | 1.626 | 2.125 | 2.124 | 0.375 | 0.413 |
| XP-250-01.750-250B | B-LIP | 1.750 | 1.751 | 2.250 | 2.249 | 0.250 | 0.275 |
| XP-250-01.750-312B | B-LIP | 1.750 | 1.751 | 2.250 | 2.249 | 0.312 | 0.344 |
| XP-250-01.750-375B | B-LIP | 1.750 | 1.751 | 2.250 | 2.249 | 0.375 | 0.413 |
| XP-250-01.750-500B | B-LIP | 1.750 | 1.751 | 2.250 | 2.249 | 0.500 | 0.550 |
| XP-250-01.875-375B | B-LIP | 1.875 | 1.876 | 2.375 | 2.374 | 0.375 | 0.413 |
| XP-250-02.000-250B | B-LIP | 2.000 | 2.001 | 2.500 | 2.499 | 0.250 | 0.275 |
| XP-250-02.000-312B | B-LIP | 2.000 | 2.001 | 2.500 | 2.499 | 0.312 | 0.344 |
| XP-250-02.000-375B | B-LIP | 2.000 | 2.001 | 2.500 | 2.499 | 0.375 | 0.413 |
| XP-250-02.000-500B | B-LIP | 2.000 | 2.001 | 2.500 | 2.499 | 0.500 | 0.550 |
| XP-250-02.125-250B | B-LIP | 2.125 | 2.126 | 2.625 | 2.624 | 0.250 | 0.275 |
| XP-250-02.125-375B | B-LIP | 2.125 | 2.126 | 2.625 | 2.624 | 0.375 | 0.413 |
| XP-250-02.187-375B | B-LIP | 2.187 | 2.188 | 2.687 | 2.686 | 0.250 | 0.275 |
| XP-250-02.250-250B | B-LIP | 2.250 | 2.251 | 2.750 | 2.749 | 0.250 | 0.275 |
| XP-250-02.250-375B | B-LIP | 2.250 | 2.251 | 2.750 | 2.749 | 0.375 | 0.413 |
| XP-250-02.375-375B | B-LIP | 2.375 | 2.376 | 2.875 | 2.874 | 0.375 | 0.430 |
| XP-250-02.500-250B | B-LIP | 2.500 | 2.501 | 3.000 | 2.999 | 0.250 | 0.275 |
| XP-250-02.500-312B | B-LIP | 2.500 | 2.501 | 3.000 | 2.999 | 0.312 | 0.344 |
| XP-250-02.500-375B | B-LIP | 2.500 | 2.501 | 3.000 | 2.999 | 0.375 | 0.413 |

# X-PAC® Loaded B-Lip - Symmetrical U-Cup

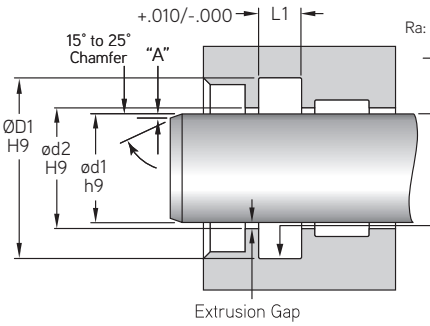
*A product of MFP Seals.*

MFP SEALS
www.mfpseals.com

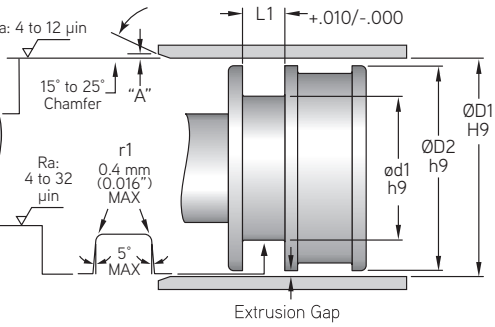
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .250" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-250-02.500-500B | B-LIP | 2.500 | 2.501 | 3.000 | 2.999 | 0.500 | 0.550 |
| XP-250-02.500-750B | B-LIP | 2.500 | 2.501 | 3.000 | 2.999 | 0.750 | 0.825 |
| XP-250-02.625-250B | B-LIP | 2.625 | 2.626 | 3.125 | 3.124 | 0.250 | 0.275 |
| XP-250-02.625-375B | B-LIP | 2.625 | 2.626 | 3.125 | 3.124 | 0.375 | 0.413 |
| XP-250-02.750-250B | B-LIP | 2.750 | 2.751 | 3.250 | 3.249 | 0.250 | 0.275 |
| XP-250-02.750-375B | B-LIP | 2.750 | 2.751 | 3.250 | 3.249 | 0.375 | 0.413 |
| XP-250-02.750-500B | B-LIP | 2.750 | 2.751 | 3.250 | 3.249 | 0.500 | 0.550 |
| XP-250-02.750-750B | B-LIP | 2.750 | 2.751 | 3.250 | 3.249 | 0.750 | 0.825 |
| XP-250-02.875-250B | B-LIP | 2.875 | 2.876 | 3.375 | 3.374 | 0.250 | 0.275 |
| XP-250-02.875-375B | B-LIP | 2.875 | 2.876 | 3.375 | 3.374 | 0.375 | 0.413 |
| XP-250-03.000-250B | B-LIP | 3.000 | 3.001 | 3.500 | 3.499 | 0.250 | 0.275 |
| XP-250-03.000-375B | B-LIP | 3.000 | 3.001 | 3.500 | 3.499 | 0.375 | 0.413 |
| XP-250-03.000-500B | B-LIP | 3.000 | 3.001 | 3.500 | 3.499 | 0.500 | 0.550 |
| XP-250-03.125-250B | B-LIP | 3.125 | 3.126 | 3.625 | 3.624 | 0.250 | 0.275 |
| XP-250-03.125-375B | B-LIP | 3.125 | 3.126 | 3.625 | 3.624 | 0.375 | 0.413 |
| XP-250-03.250-250B | B-LIP | 3.250 | 3.251 | 3.750 | 3.549 | 0.250 | 0.275 |
| XP-250-03.250-375B | B-LIP | 3.250 | 3.251 | 3.750 | 3.749 | 0.375 | 0.413 |
| XP-250-03.250-500B | B-LIP | 3.250 | 3.251 | 3.750 | 3.749 | 0.500 | 0.550 |
| XP-250-03.375-250B | B-LIP | 3.375 | 3.376 | 3.875 | 3.874 | 0.250 | 0.275 |
| XP-250-03.375-375B | B-LIP | 3.375 | 3.376 | 3.875 | 3.874 | 0.375 | 0.413 |
| XP-250-03.500-250B | B-LIP | 3.500 | 3.501 | 4.000 | 3.999 | 0.250 | 0.275 |
| XP-250-03.500-312B | B-LIP | 3.500 | 3.501 | 4.000 | 3.999 | 0.312 | 0.344 |
| XP-250-03.500-375B | B-LIP | 3.500 | 3.501 | 4.000 | 3.999 | 0.375 | 0.413 |
| XP-250-03.500-500B | B-LIP | 3.500 | 3.501 | 4.000 | 3.999 | 0.500 | 0.550 |
| XP-250-03.500-562B | B-LIP | 3.500 | 3.501 | 4.000 | 3.999 | 0.562 | 0.619 |
| XP-250-03.500-625B | B-LIP | 3.500 | 3.501 | 4.000 | 3.999 | 0.625 | 0.688 |
| XP-250-03.625-375B | B-LIP | 3.625 | 3.626 | 4.125 | 4.124 | 0.375 | 0.413 |
| XP-250-03.750-250B | B-LIP | 3.750 | 3.751 | 4.250 | 4.249 | 0.250 | 0.275 |
| XP-250-03.750-375B | B-LIP | 3.750 | 3.751 | 4.250 | 4.249 | 0.375 | 0.413 |
| XP-250-03.750-500B | B-LIP | 3.750 | 3.751 | 4.250 | 4.249 | 0.500 | 0.550 |
| XP-250-03.750-562B | B-LIP | 3.750 | 3.751 | 4.250 | 4.249 | 0.562 | 0.619 |
| XP-250-03.875-375B | B-LIP | 3.875 | 3.876 | 4.375 | 4.374 | 0.375 | 0.413 |
| XP-250-04.000-250B | B-LIP | 4.000 | 4.001 | 4.500 | 4.499 | 0.250 | 0.275 |
| XP-250-04.000-312B | B-LIP | 4.000 | 4.001 | 4.500 | 4.499 | 0.312 | 0.344 |
| XP-250-04.000-375B | B-LIP | 4.000 | 4.001 | 4.500 | 4.499 | 0.375 | 0.413 |



Compound information available on pages 20-37.

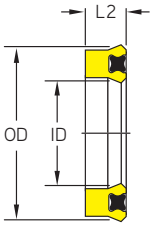


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

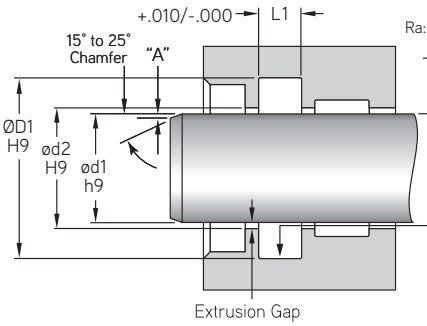




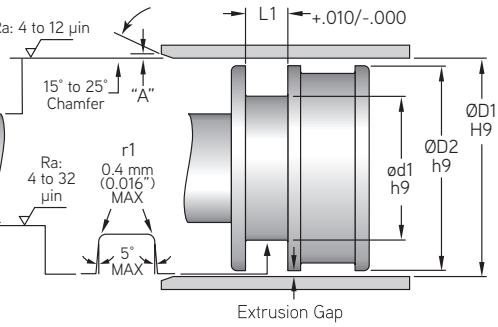
## PROFILE




## ROD APPLICATION

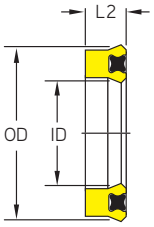



## PISTON APPLICATION

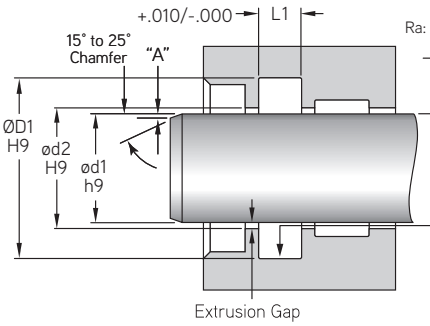



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .250" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-250-04.000-500B | B-LIP | 4.000 | 4.001 | 4.500 | 4.499 | 0.500 | 0.550 |
| XP-250-04.000-562B | B-LIP | 4.000 | 4.001 | 4.500 | 4.499 | 0.562 | 0.619 |
| XP-250-04.125-375B | B-LIP | 4.125 | 4.126 | 4.625 | 4.624 | 0.375 | 0.413 |
| XP-250-04.125-562B | B-LIP | 4.125 | 4.126 | 4.625 | 4.624 | 0.562 | 0.619 |
| XP-250-04.250-250B | B-LIP | 4.250 | 4.251 | 4.750 | 4.749 | 0.250 | 0.275 |
| XP-250-04.250-375B | B-LIP | 4.250 | 4.251 | 4.750 | 4.749 | 0.375 | 0.413 |
| XP-250-04.250-562B | B-LIP | 4.250 | 4.251 | 4.750 | 4.749 | 0.562 | 0.619 |
| XP-250-04.375-250B | B-LIP | 4.375 | 4.376 | 4.875 | 4.874 | 0.250 | 0.275 |
| XP-250-04.375-562B | B-LIP | 4.375 | 4.376 | 4.875 | 4.874 | 0.562 | 0.619 |
| XP-250-04.500-250B | B-LIP | 4.500 | 4.501 | 5.000 | 4.999 | 0.250 | 0.275 |
| XP-250-04.500-312B | B-LIP | 4.500 | 4.501 | 5.000 | 4.999 | 0.312 | 0.344 |
| XP-250-04.500-375B | B-LIP | 4.500 | 4.501 | 5.000 | 4.999 | 0.375 | 0.413 |
| XP-250-04.500-500B | B-LIP | 4.500 | 4.501 | 5.000 | 4.999 | 0.500 | 0.550 |
| XP-250-04.500-562B | B-LIP | 4.500 | 4.501 | 5.000 | 4.999 | 0.562 | 0.619 |
| XP-250-04.500-625B | B-LIP | 4.500 | 4.501 | 5.000 | 4.999 | 0.625 | 0.688 |
| XP-250-04.625-250B | B-LIP | 4.625 | 4.626 | 5.125 | 5.124 | 0.250 | 0.275 |
| XP-250-04.625-500B | B-LIP | 4.625 | 4.626 | 5.125 | 5.124 | 0.500 | 0.550 |
| XP-250-04.625-562B | B-LIP | 4.625 | 4.626 | 5.125 | 5.124 | 0.562 | 0.619 |
| XP-250-04.750-250B | B-LIP | 4.750 | 4.751 | 5.250 | 5.249 | 0.250 | 0.275 |
| XP-250-04.750-375B | B-LIP | 4.750 | 4.751 | 5.250 | 5.249 | 0.375 | 0.344 |
| XP-250-04.750-562B | B-LIP | 4.750 | 4.751 | 5.250 | 5.249 | 0.562 | 0.619 |
| XP-250-04.875-562B | B-LIP | 4.875 | 4.876 | 5.375 | 5.374 | 0.562 | 0.619 |
| XP-250-04.875-625B | B-LIP | 4.875 | 4.876 | 5.375 | 5.374 | 0.625 | 0.688 |
| XP-250-05.000-250B | B-LIP | 5.000 | 5.001 | 5.500 | 5.499 | 0.250 | 0.275 |
| XP-250-05.000-375B | B-LIP | 5.000 | 5.001 | 5.500 | 5.499 | 0.375 | 0.413 |
| XP-250-05.000-500B | B-LIP | 5.000 | 5.001 | 5.500 | 5.499 | 0.500 | 0.550 |
| XP-250-05.000-562B | B-LIP | 5.000 | 5.001 | 5.500 | 5.499 | 0.562 | 0.619 |
| XP-250-05.000-625B | B-LIP | 5.000 | 5.001 | 5.500 | 5.499 | 0.625 | 0.688 |
| XP-250-05.250-250B | B-LIP | 5.250 | 5.251 | 5.750 | 5.749 | 0.250 | 0.275 |
| XP-250-05.250-375B | B-LIP | 5.250 | 5.251 | 5.750 | 5.749 | 0.375 | 0.413 |
| XP-250-05.250-562B | B-LIP | 5.250 | 5.251 | 5.750 | 5.749 | 0.562 | 0.619 |
| XP-250-05.375-250B | B-LIP | 5.375 | 5.376 | 5.875 | 5.874 | 0.250 | 0.275 |
| XP-250-05.375-375B | B-LIP | 5.375 | 5.376 | 5.875 | 5.874 | 0.375 | 0.413 |
| XP-250-05.375-437B | B-LIP | 5.375 | 5.376 | 5.875 | 5.874 | 0.437 | 0.481 |
| XP-250-05.375-562B | B-LIP | 5.375 | 5.376 | 5.875 | 5.874 | 0.562 | 0.619 |

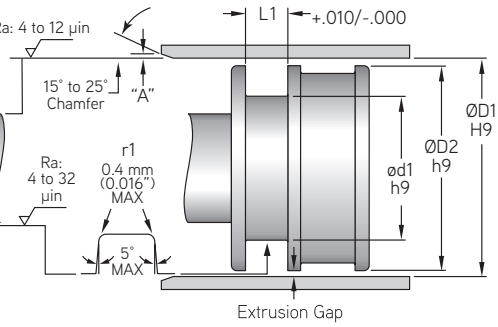
## PROFILE




## ROD APPLICATION

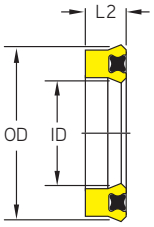



## PISTON APPLICATION

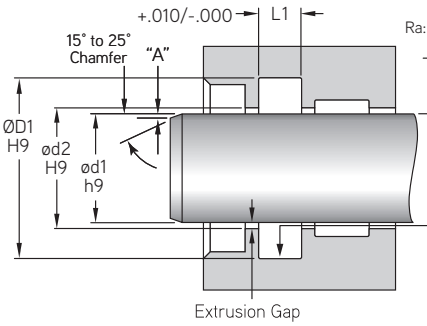



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .250" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-250-05.500-250B | B-LIP | 5.500 | 5.001 | 6.000 | 5.999 | 0.250 | 0.275 |
| XP-250-05.500-375B | B-LIP | 5.500 | 5.001 | 6.000 | 5.999 | 0.375 | 0.413 |
| XP-250-05.500-562B | B-LIP | 5.500 | 5.001 | 6.000 | 5.999 | 0.562 | 0.619 |
| XP-250-05.500-625B | B-LIP | 5.500 | 5.501 | 6.000 | 5.999 | 0.625 | 0.688 |
| XP-250-05.625-562B | B-LIP | 5.625 | 5.626 | 6.125 | 6.124 | 0.562 | 0.619 |
| XP-250-05.750-375B | B-LIP | 5.750 | 5.751 | 6.250 | 6.249 | 0.375 | 0.413 |
| XP-250-05.750-562B | B-LIP | 5.750 | 5.751 | 6.250 | 6.249 | 0.562 | 0.619 |
| XP-250-05.875-562B | B-LIP | 5.875 | 5.876 | 6.375 | 6.374 | 0.562 | 0.619 |
| XP-250-06.000-375B | B-LIP | 6.000 | 6.001 | 6.500 | 6.499 | 0.375 | 0.413 |
| XP-250-06.000-437B | B-LIP | 6.000 | 6.001 | 6.500 | 6.499 | 0.437 | 0.481 |
| XP-250-06.000-500B | B-LIP | 6.000 | 6.001 | 6.500 | 6.499 | 0.500 | 0.550 |
| XP-250-06.000-562B | B-LIP | 6.000 | 6.001 | 6.500 | 6.499 | 0.562 | 0.619 |
| XP-250-06.125-375B | B-LIP | 6.125 | 6.126 | 6.625 | 6.624 | 0.375 | 0.413 |
| XP-250-06.250-375B | B-LIP | 6.250 | 6.251 | 6.750 | 6.749 | 0.375 | 0.413 |
| XP-250-06.250-562B | B-LIP | 6.250 | 6.251 | 6.750 | 6.749 | 0.562 | 0.619 |
| XP-250-06.500-250B | B-LIP | 6.500 | 6.501 | 7.000 | 6.999 | 0.250 | 0.275 |
| XP-250-06.500-375B | B-LIP | 6.500 | 6.501 | 7.000 | 6.999 | 0.375 | 0.413 |
| XP-250-06.500-562B | B-LIP | 6.500 | 6.501 | 7.000 | 6.999 | 0.562 | 0.619 |
| XP-250-06.750-375B | B-LIP | 6.750 | 6.751 | 7.250 | 7.249 | 0.375 | 0.413 |
| XP-250-06.750-562B | B-LIP | 6.750 | 6.751 | 7.250 | 7.249 | 0.562 | 0.619 |
| XP-250-07.000-375B | B-LIP | 7.000 | 7.001 | 7.500 | 7.490 | 0.375 | 0.413 |
| XP-250-07.000-562B | B-LIP | 7.000 | 7.001 | 7.500 | 7.490 | 0.562 | 0.619 |
| XP-250-07.125-562B | B-LIP | 7.125 | 7.126 | 7.625 | 7.624 | 0.562 | 0.619 |
| XP-250-07.250-562B | B-LIP | 7.250 | 7.251 | 7.750 | 7.749 | 0.562 | 0.619 |
| XP-250-07.500-250B | B-LIP | 7.500 | 7.501 | 8.000 | 7.999 | 0.250 | 0.275 |
| XP-250-07.500-375B | B-LIP | 7.500 | 7.501 | 8.000 | 7.999 | 0.375 | 0.413 |
| XP-250-07.500-562B | B-LIP | 7.500 | 7.501 | 8.000 | 7.999 | 0.562 | 0.619 |
| XP-250-07.750-375B | B-LIP | 7.750 | 7.751 | 8.250 | 8.249 | 0.375 | 0.413 |
| XP-250-07.750-562B | B-LIP | 7.750 | 7.751 | 8.250 | 8.249 | 0.562 | 0.619 |
| XP-250-07.937-375B | B-LIP | 7.937 | 7.938 | 8.473 | 8.472 | 0.375 | 0.413 |
| XP-250-08.000-250B | B-LIP | 8.000 | 8.001 | 8.500 | 8.499 | 0.250 | 0.275 |
| XP-250-08.000-375B | B-LIP | 8.000 | 8.001 | 8.500 | 8.499 | 0.375 | 0.413 |
| XP-250-08.000-562B | B-LIP | 8.000 | 8.001 | 8.500 | 8.499 | 0.562 | 0.619 |
| XP-250-08.125-562B | B-LIP | 8.125 | 8.126 | 8.625 | 8.624 | 0.562 | 0.619 |
| XP-250-08.250-375B | B-LIP | 8.250 | 8.251 | 8.750 | 8.749 | 0.375 | 0.413 |

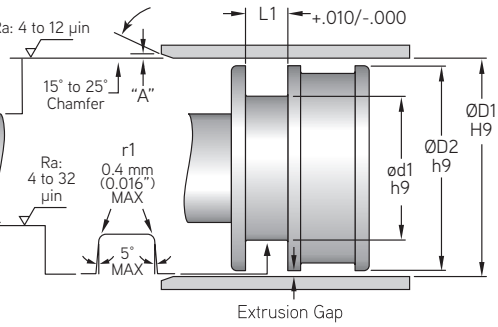
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| **.250" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-250-08.250-562B | B-LIP | 8.250 | 8.251 | 8.750 | 8.749 | 0.562 | 0.619 |
| XP-250-08.375-562B | B-LIP | 8.375 | 8.376 | 8.875 | 8.874 | 0.562 | 0.619 |
| XP-250-08.500-375B | B-LIP | 8.500 | 8.501 | 9.000 | 8.999 | 0.375 | 0.413 |
| XP-250-08.500-562B | B-LIP | 8.500 | 8.501 | 9.000 | 8.999 | 0.562 | 0.619 |
| XP-250-08.750-375B | B-LIP | 8.750 | 8.751 | 9.250 | 9.249 | 0.375 | 0.413 |
| XP-250-09.000-375B | B-LIP | 9.000 | 9.001 | 9.500 | 9.499 | 0.375 | 0.413 |
| XP-250-09.000-562B | B-LIP | 9.000 | 9.001 | 9.500 | 9.499 | 0.562 | 0.619 |
| XP-250-09.500-562B | B-LIP | 9.500 | 9.501 | 10.000 | 9.999 | 0.562 | 0.619 |
| XP-250-09.625-375B | B-LIP | 9.625 | 9.626 | 10.125 | 10.124 | 0.375 | 0.413 |
| XP-250-09.750-562B | B-LIP | 9.750 | 9.751 | 10.250 | 10.249 | 0.562 | 0.619 |
| XP-250-10.000-562B | B-LIP | 10.000 | 10.001 | 10.500 | 10.499 | 0.562 | 0.619 |
| XP-250-10.500-250B | B-LIP | 10.500 | 10.501 | 11.000 | 10.999 | 0.250 | 0.275 |
| XP-250-11.500-531B | B-LIP | 11.500 | 11.501 | 12.000 | 11.999 | 0.531 | 0.584 |
| XP-250-12.000-562B | B-LIP | 12.000 | 12.001 | 12.500 | 12.499 | 0.562 | 0.619 |
| XP-250-12.500-531B | B-LIP | 12.500 | 12.501 | 13.000 | 12.999 | 0.531 | 0.584 |
| XP-250-12.750-562B | B-LIP | 12.750 | 12.751 | 13.250 | 13.249 | 0.562 | 0.619 |
| XP-250-13.500-531B | B-LIP | 13.500 | 13.501 | 14.000 | 13.999 | 0.531 | 0.584 |
| XP-250-13.500-562B | B-LIP | 13.500 | 13.501 | 14.000 | 13.999 | 0.562 | 0.619 |
| **.281" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-281-02.437-375B | B-LIP | 2.437 | 2.438 | 3.000 | 2.999 | 0.375 | 0.413 |
| XP-281-03.187-500B | B-LIP | 3.187 | 3.188 | 3.750 | 3.749 | 0.500 | 0.550 |
| XP-281-05.000-281B | B-LIP | 5.000 | 5.001 | 5.562 | 5.561 | 0.281 | 0.309 |
| XP-281-05.437-562B | B-LIP | 5.437 | 5.438 | 6.000 | 5.999 | 0.562 | 0.619 |
| **.312" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-312-00.750-500B | B-LIP | 0.750 | 0.752 | 1.375 | 1.373 | 0.500 | 0.550 |
| XP-312-00.875-562B | B-LIP | 0.875 | 0.877 | 1.500 | 1.498 | 0.562 | 0.619 |
| XP-312-00.937-375B | B-LIP | 0.937 | 0.939 | 1.562 | 1.560 | 0.375 | 0.413 |
| XP-312-01.000-375B | B-LIP | 1.000 | 1.002 | 1.625 | 1.623 | 0.375 | 0.413 |
| XP-312-01.000-500B | B-LIP | 1.000 | 1.002 | 1.625 | 1.623 | 0.500 | 0.550 |
| XP-312-01.125-312B | B-LIP | 1.125 | 1.127 | 1.750 | 1.748 | 0.312 | 0.344 |
| XP-312-01.125-375B | B-LIP | 1.125 | 1.127 | 1.750 | 1.748 | 0.375 | 0.413 |
| XP-312-01.125-500B | B-LIP | 1.125 | 1.127 | 1.750 | 1.748 | 0.500 | 0.550 |
| XP-312-01.250-312B | B-LIP | 1.250 | 1.252 | 1.875 | 1.873 | 0.312 | 0.344 |
| XP-312-01.250-375B | B-LIP | 1.250 | 1.252 | 1.875 | 1.873 | 0.375 | 0.413 |
| XP-312-01.250-500B | B-LIP | 1.250 | 1.252 | 1.875 | 1.873 | 0.500 | 0.550 |

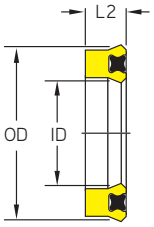
# X-PAC® Loaded B-Lip - Symmetrical U-Cup

*A product of MFP Seals.*

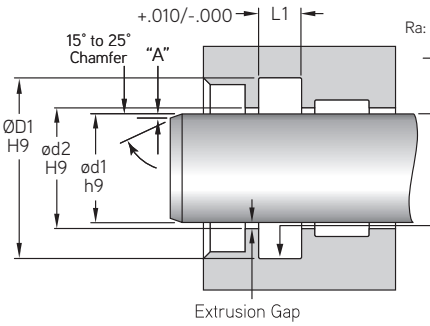
MFPSEALS®
www.mfpseals.com



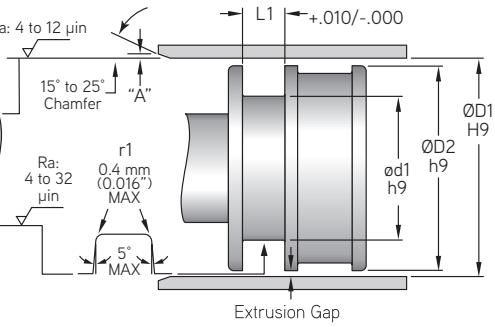
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION



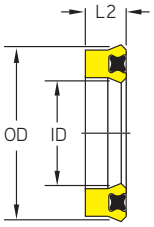

| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .312" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-312-01.250-562B | B-LIP | 1.250 | 1.252 | 1.875 | 1.873 | 0.562 | 0.619 |
| XP-312-01.375-312B | B-LIP | 1.375 | 1.377 | 2.000 | 1.998 | 0.312 | 0.344 |
| XP-312-01.375-375B | B-LIP | 1.375 | 1.377 | 2.000 | 1.998 | 0.375 | 0.413 |
| XP-312-01.375-500B | B-LIP | 1.375 | 1.377 | 2.000 | 1.998 | 0.500 | 0.550 |
| XP-312-01.375-562B | B-LIP | 1.375 | 1.377 | 2.000 | 1.998 | 0.562 | 0.619 |
| XP-312-01.500-375B | B-LIP | 1.500 | 1.502 | 2.125 | 2.123 | 0.375 | 0.413 |
| XP-312-01.500-437B | B-LIP | 1.500 | 1.502 | 2.125 | 2.123 | 0.437 | 0.483 |
| XP-312-01.500-500B | B-LIP | 1.500 | 1.502 | 2.125 | 2.123 | 0.500 | 0.550 |
| XP-312-01.625-375B | B-LIP | 1.625 | 1.627 | 2.250 | 2.248 | 0.375 | 0.413 |
| XP-312-01.625-500B | B-LIP | 1.625 | 1.627 | 2.250 | 2.248 | 0.500 | 0.550 |
| XP-312-01.687-500B | B-LIP | 1.687 | 1.689 | 2.312 | 2.310 | 0.500 | 0.550 |
| XP-312-01.750-312B | B-LIP | 1.750 | 1.752 | 2.375 | 2.373 | 0.312 | 0.344 |
| XP-312-01.750-375B | B-LIP | 1.750 | 1.752 | 2.375 | 2.373 | 0.375 | 0.413 |
| XP-312-01.750-500B | B-LIP | 1.750 | 1.752 | 2.375 | 2.373 | 0.500 | 0.550 |
| XP-312-01.875-375B | B-LIP | 1.875 | 1.877 | 2.500 | 2.498 | 0.375 | 0.413 |
| XP-312-01.875-500B | B-LIP | 1.875 | 1.877 | 2.500 | 2.498 | 0.500 | 0.550 |
| XP-312-01.875-562B | B-LIP | 1.875 | 1.877 | 2.500 | 2.498 | 0.562 | 0.619 |
| XP-312-02.000-312B | B-LIP | 2.000 | 2.002 | 2.625 | 2.623 | 0.312 | 0.344 |
| XP-312-02.000-375B | B-LIP | 2.000 | 2.002 | 2.625 | 2.623 | 0.375 | 0.413 |
| XP-312-02.000-437B | B-LIP | 2.000 | 2.002 | 2.625 | 2.623 | 0.437 | 0.483 |
| XP-312-02.000-500B | B-LIP | 2.000 | 2.002 | 2.625 | 2.623 | 0.500 | 0.550 |
| XP-312-02.000-562B | B-LIP | 2.000 | 2.002 | 2.625 | 2.623 | 0.562 | 0.619 |
| XP-312-02.125-312B | B-LIP | 2.125 | 2.127 | 2.750 | 2.748 | 0.312 | 0.344 |
| XP-312-02.125-375B | B-LIP | 2.125 | 2.127 | 2.750 | 2.748 | 0.375 | 0.413 |
| XP-312-02.125-500B | B-LIP | 2.125 | 2.127 | 2.750 | 2.748 | 0.500 | 0.550 |
| XP-312-02.250-375B | B-LIP | 2.250 | 2.252 | 2.875 | 2.873 | 0.375 | 0.413 |
| XP-312-02.250-500B | B-LIP | 2.250 | 2.252 | 2.875 | 2.873 | 0.500 | 0.550 |
| XP-312-02.375-312B | B-LIP | 2.375 | 2.377 | 3.000 | 2.998 | 0.312 | 0.344 |
| XP-312-02.375-375B | B-LIP | 2.375 | 2.377 | 3.000 | 2.998 | 0.375 | 0.413 |
| XP-312-02.375-500B | B-LIP | 2.375 | 2.377 | 3.000 | 2.998 | 0.500 | 0.550 |
| XP-312-02.500-375B | B-LIP | 2.500 | 2.502 | 3.125 | 3.123 | 0.375 | 0.413 |
| XP-312-02.500-500B | B-LIP | 2.500 | 2.502 | 3.125 | 3.123 | 0.500 | 0.550 |
| XP-312-02.625-500B | B-LIP | 2.625 | 2.627 | 3.250 | 3.248 | 0.500 | 0.550 |
| XP-312-02.625-625B | B-LIP | 2.625 | 2.627 | 3.250 | 3.248 | 0.625 | 0.688 |
| XP-312-02.750-375B | B-LIP | 2.750 | 2.752 | 3.375 | 3.373 | 0.375 | 0.413 |

Compound information available on pages 20-37.

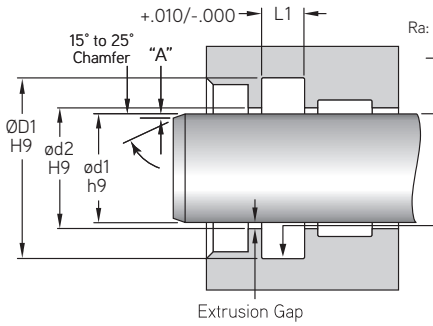


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

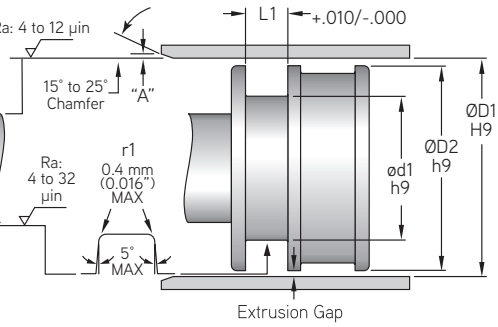
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION



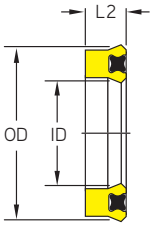

| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .312" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-312-02.750-500B | B-LIP | 2.750 | 2.752 | 3.375 | 3.373 | 0.500 | 0.550 |
| XP-312-02.750-625B | B-LIP | 2.750 | 2.752 | 3.375 | 3.373 | 0.625 | 0.688 |
| XP-312-02.875-312B | B-LIP | 2.875 | 2.877 | 3.500 | 3.498 | 0.312 | 0.344 |
| XP-312-02.875-375B | B-LIP | 2.875 | 2.877 | 3.500 | 3.498 | 0.375 | 0.413 |
| XP-312-02.875-500B | B-LIP | 2.875 | 2.877 | 3.500 | 3.498 | 0.500 | 0.550 |
| XP-312-02.875-562B | B-LIP | 2.875 | 2.877 | 3.500 | 3.498 | 0.562 | 0.619 |
| XP-312-03.000-312B | B-LIP | 3.000 | 3.002 | 3.625 | 3.623 | 0.312 | 0.344 |
| XP-312-03.000-375B | B-LIP | 3.000 | 3.002 | 3.625 | 3.623 | 0.375 | 0.413 |
| XP-312-03.000-500B | B-LIP | 3.000 | 3.002 | 3.625 | 3.623 | 0.500 | 0.550 |
| XP-312-03.125-312B | B-LIP | 3.125 | 3.127 | 3.750 | 3.748 | 0.312 | 0.344 |
| XP-312-03.125-500B | B-LIP | 3.125 | 3.127 | 3.750 | 3.748 | 0.500 | 0.550 |
| XP-312-03.250-500B | B-LIP | 3.250 | 3.252 | 3.875 | 3.873 | 0.500 | 0.550 |
| XP-312-03.375-500B | B-LIP | 3.375 | 3.377 | 4.000 | 3.998 | 0.500 | 0.550 |
| XP-312-03.375-562B | B-LIP | 3.375 | 3.377 | 4.000 | 3.998 | 0.562 | 0.619 |
| XP-312-03.375-625B | B-LIP | 3.375 | 3.377 | 4.000 | 3.998 | 0.625 | 0.688 |
| XP-312-03.500-500B | B-LIP | 3.500 | 3.502 | 4.125 | 4.123 | 0.500 | 0.550 |
| XP-312-03.625-375B | B-LIP | 3.625 | 3.627 | 4.250 | 4.248 | 0.375 | 0.413 |
| XP-312-03.625-500B | B-LIP | 3.625 | 3.627 | 4.250 | 4.248 | 0.500 | 0.550 |
| XP-312-03.750-312B | B-LIP | 3.750 | 3.752 | 4.375 | 4.373 | 0.312 | 0.344 |
| XP-312-03.750-375B | B-LIP | 3.750 | 3.752 | 4.375 | 4.373 | 0.375 | 0.413 |
| XP-312-03.750-500B | B-LIP | 3.750 | 3.752 | 4.375 | 4.373 | 0.500 | 0.550 |
| XP-312-03.750-625B | B-LIP | 3.750 | 3.752 | 4.375 | 4.373 | 0.625 | 0.688 |
| XP-312-03.875-500B | B-LIP | 3.875 | 3.877 | 4.500 | 4.498 | 0.500 | 0.550 |
| XP-312-04.000-375B | B-LIP | 4.000 | 4.002 | 4.625 | 4.623 | 0.375 | 0.413 |
| XP-312-04.000-562B | B-LIP | 4.000 | 4.002 | 4.625 | 4.623 | 0.562 | 0.619 |
| XP-312-04.125-500B | B-LIP | 4.125 | 4.127 | 4.750 | 4.748 | 0.500 | 0.550 |
| XP-312-04.125-562B | B-LIP | 4.125 | 4.127 | 4.750 | 4.748 | 0.562 | 0.619 |
| XP-312-04.250-437B | B-LIP | 4.250 | 4.252 | 4.875 | 4.873 | 0.437 | 0.483 |
| XP-312-04.250-562B | B-LIP | 4.250 | 4.252 | 4.875 | 4.873 | 0.562 | 0.619 |
| XP-312-04.375-312B | B-LIP | 4.375 | 4.377 | 5.000 | 4.998 | 0.312 | 0.344 |
| XP-312-04.375-375B | B-LIP | 4.375 | 4.377 | 5.000 | 4.998 | 0.375 | 0.413 |
| XP-312-04.375-500B | B-LIP | 4.375 | 4.377 | 5.000 | 4.998 | 0.500 | 0.550 |
| XP-312-04.375-562B | B-LIP | 4.375 | 4.377 | 5.000 | 4.998 | 0.562 | 0.619 |
| XP-312-04.500-500B | B-LIP | 4.500 | 4.502 | 5.125 | 5.123 | 0.500 | 0.550 |
| XP-312-04.500-625B | B-LIP | 4.500 | 4.502 | 5.125 | 5.123 | 0.625 | 0.688 |

# X-PAC® Loaded B-Lip - Symmetrical U-Cup

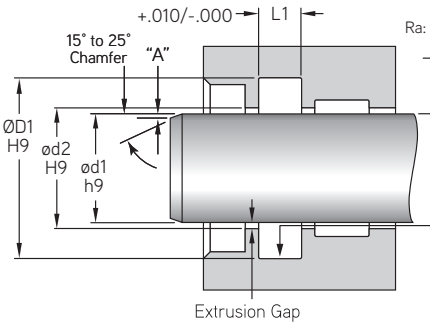
*A product of MFP Seals.*

MFP SEALS
www.mfpseals.com

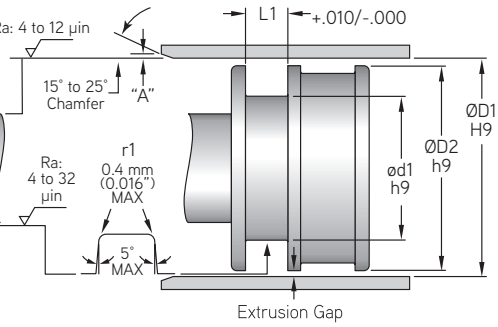
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .312" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-312-04.625-625B | B-LIP | 4.625 | 4.627 | 5.250 | 5.248 | 0.625 | 0.688 |
| XP-312-04.750-500B | B-LIP | 4.750 | 4.752 | 5.375 | 5.373 | 0.500 | 0.550 |
| XP-312-04.750-625B | B-LIP | 4.750 | 4.752 | 5.375 | 5.373 | 0.625 | 0.688 |
| XP-312-05.000-375B | B-LIP | 5.000 | 5.002 | 5.625 | 5.623 | 0.375 | 0.413 |
| XP-312-05.000-625B | B-LIP | 5.000 | 5.002 | 5.625 | 5.623 | 0.625 | 0.688 |
| XP-312-05.250-625B | B-LIP | 5.250 | 5.252 | 5.875 | 5.873 | 0.625 | 0.688 |
| XP-312-05.375-312B | B-LIP | 5.375 | 5.377 | 6.000 | 5.998 | 0.312 | 0.344 |
| XP-312-05.375-375B | B-LIP | 5.375 | 5.377 | 6.000 | 5.998 | 0.375 | 0.413 |
| XP-312-05.375-625B | B-LIP | 5.375 | 5.377 | 6.000 | 5.998 | 0.625 | 0.688 |
| XP-312-05.500-312B | B-LIP | 5.500 | 5.502 | 6.125 | 6.123 | 0.312 | 0.344 |
| XP-312-05.500-375B | B-LIP | 5.500 | 5.502 | 6.125 | 6.123 | 0.375 | 0.413 |
| XP-312-05.500-500B | B-LIP | 5.500 | 5.502 | 6.125 | 6.123 | 0.500 | 0.550 |
| XP-312-05.500-625B | B-LIP | 5.500 | 5.502 | 6.125 | 6.123 | 0.625 | 0.688 |
| XP-312-05.750-625B | B-LIP | 5.750 | 5.752 | 6.375 | 6.373 | 0.625 | 0.688 |
| XP-312-05.875-375B | B-LIP | 5.875 | 5.877 | 6.500 | 6.498 | 0.375 | 0.413 |
| XP-312-06.000-625B | B-LIP | 6.000 | 6.002 | 6.625 | 6.623 | 0.625 | 0.688 |
| XP-312-06.375-312B | B-LIP | 6.375 | 6.377 | 7.000 | 6.998 | 0.312 | 0.344 |
| XP-312-06.375-625B | B-LIP | 6.375 | 6.377 | 7.000 | 6.998 | 0.625 | 0.688 |
| XP-312-06.500-625B | B-LIP | 6.500 | 6.502 | 7.125 | 7.123 | 0.625 | 0.688 |
| XP-312-06.625-625B | B-LIP | 6.625 | 6.627 | 7.250 | 7.248 | 0.625 | 0.688 |
| XP-312-07.000-625B | B-LIP | 7.000 | 7.002 | 7.625 | 7.623 | 0.625 | 0.688 |
| XP-312-07.250-625B | B-LIP | 7.250 | 7.252 | 7.875 | 7.873 | 0.625 | 0.688 |
| XP-312-07.375-312B | B-LIP | 7.375 | 7.377 | 8.000 | 7.998 | 0.312 | 0.344 |
| XP-312-07.375-625B | B-LIP | 7.375 | 7.377 | 8.000 | 7.998 | 0.625 | 0.688 |
| XP-312-08.000-625B | B-LIP | 8.000 | 8.002 | 8.625 | 8.623 | 0.625 | 0.688 |
| XP-312-09.250-625B | B-LIP | 9.250 | 9.252 | 9.875 | 9.873 | 0.625 | 0.688 |
| XP-312-10.750-375B | B-LIP | 10.750 | 10.752 | 11.375 | 11.373 | 0.375 | 0.413 |
| .375" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-375-00.812-375B | B-LIP | 0.812 | 0.815 | 1.562 | 1.560 | 0.375 | 0.413 |
| XP-375-01.125-625B | B-LIP | 1.125 | 1.127 | 1.875 | 1.873 | 0.625 | 0.688 |
| XP-375-01.250-375B | B-LIP | 1.250 | 1.252 | 2.000 | 1.998 | 0.375 | 0.413 |
| XP-375-01.250-500B | B-LIP | 1.250 | 1.252 | 2.000 | 1.998 | 0.500 | 0.550 |
| XP-375-01.250-625B | B-LIP | 1.250 | 1.252 | 2.000 | 1.998 | 0.625 | 0.688 |
| XP-375-01.500-375B | B-LIP | 1.500 | 1.502 | 2.250 | 2.248 | 0.375 | 0.413 |
| XP-375-01.500-500B | B-LIP | 1.500 | 1.502 | 2.250 | 2.248 | 0.500 | 0.550 |

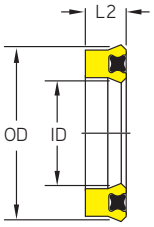


Compound information available on pages 20-37.

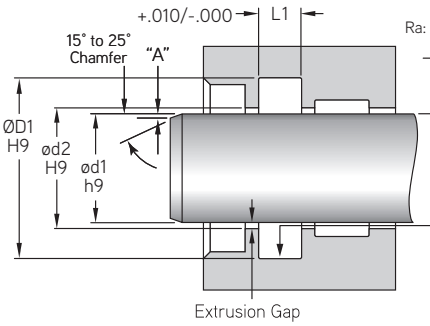


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

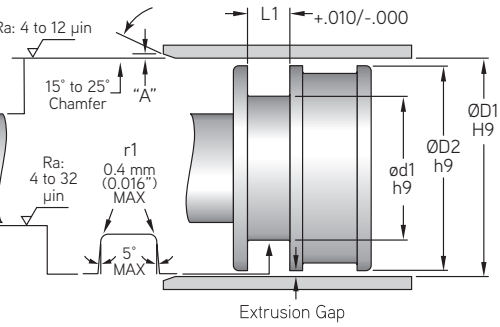
## PROFILE




## ROD APPLICATION

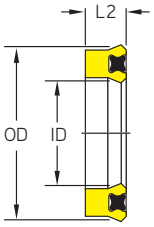



## PISTON APPLICATION

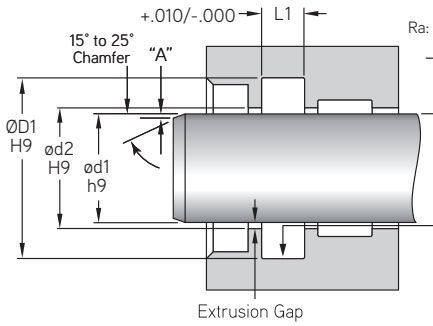



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .375" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-375-01.500-625B | B-LIP | 1.500 | 1.502 | 2.250 | 2.248 | 0.625 | 0.688 |
| XP-375-01.625-375B | B-LIP | 1.625 | 1.627 | 2.375 | 2.373 | 0.375 | 0.413 |
| XP-375-01.625-625B | B-LIP | 1.625 | 1.627 | 2.375 | 2.373 | 0.625 | 0.688 |
| XP-375-01.750-375B | B-LIP | 1.750 | 1.752 | 2.500 | 2.498 | 0.375 | 0.413 |
| XP-375-01.750-500B | B-LIP | 1.750 | 1.752 | 2.500 | 2.498 | 0.500 | 0.550 |
| XP-375-01.750-625B | B-LIP | 1.750 | 1.752 | 2.500 | 2.498 | 0.625 | 0.688 |
| XP-375-02.000-375B | B-LIP | 2.000 | 2.002 | 2.750 | 2.748 | 0.375 | 0.413 |
| XP-375-02.000-437B | B-LIP | 2.000 | 2.002 | 2.750 | 2.748 | 0.437 | 0.483 |
| XP-375-02.000-500B | B-LIP | 2.000 | 2.002 | 2.750 | 2.748 | 0.500 | 0.550 |
| XP-375-02.000-625B | B-LIP | 2.000 | 2.002 | 2.750 | 2.748 | 0.625 | 0.688 |
| XP-375-02.125-625B | B-LIP | 2.125 | 2.127 | 2.875 | 2.873 | 0.625 | 0.688 |
| XP-375-02.187-625B | B-LIP | 2.187 | 2.189 | 2.937 | 2.935 | 0.625 | 0.688 |
| XP-375-02.250-375B | B-LIP | 2.250 | 2.252 | 3.000 | 2.998 | 0.375 | 0.413 |
| XP-375-02.250-500B | B-LIP | 2.250 | 2.252 | 3.000 | 2.998 | 0.500 | 0.550 |
| XP-375-02.250-625B | B-LIP | 2.250 | 2.252 | 3.000 | 2.998 | 0.625 | 0.688 |
| XP-375-02.375-375B | B-LIP | 2.375 | 2.377 | 3.125 | 3.123 | 0.375 | 0.413 |
| XP-375-02.375-500B | B-LIP | 2.375 | 2.377 | 3.125 | 3.123 | 0.500 | 0.550 |
| XP-375-02.375-625B | B-LIP | 2.375 | 2.377 | 3.125 | 3.123 | 0.625 | 0.688 |
| XP-375-02.500-375B | B-LIP | 2.500 | 2.502 | 3.250 | 3.248 | 0.375 | 0.413 |
| XP-375-02.500-500B | B-LIP | 2.500 | 2.502 | 3.250 | 3.248 | 0.500 | 0.550 |
| XP-375-02.500-625B | B-LIP | 2.500 | 2.502 | 3.250 | 3.248 | 0.625 | 0.688 |
| XP-375-02.625-562B | B-LIP | 2.625 | 2.627 | 3.375 | 3.373 | 0.562 | 0.619 |
| XP-375-02.625-625B | B-LIP | 2.625 | 2.627 | 3.375 | 3.373 | 0.625 | 0.688 |
| XP-375-02.750-375B | B-LIP | 2.750 | 2.752 | 3.500 | 3.498 | 0.375 | 0.413 |
| XP-375-02.750-480B | B-LIP | 2.750 | 2.752 | 3.500 | 3.498 | 0.480 | 0.528 |
| XP-375-02.750-500B | B-LIP | 2.750 | 2.752 | 3.500 | 3.498 | 0.500 | 0.550 |
| XP-375-02.750-625B | B-LIP | 2.750 | 2.752 | 3.500 | 3.498 | 0.625 | 0.688 |
| XP-375-02.875-500B | B-LIP | 2.875 | 2.877 | 3.625 | 3.623 | 0.500 | 0.550 |
| XP-375-02.875-625B | B-LIP | 2.875 | 2.877 | 3.625 | 3.623 | 0.625 | 0.688 |
| XP-375-03.000-375B | B-LIP | 3.000 | 3.002 | 3.750 | 3.748 | 0.375 | 0.413 |
| XP-375-03.000-500B | B-LIP | 3.000 | 3.002 | 3.750 | 3.748 | 0.500 | 0.550 |
| XP-375-03.000-625B | B-LIP | 3.000 | 3.002 | 3.750 | 3.748 | 0.625 | 0.688 |
| XP-375-03.125-375B | B-LIP | 3.125 | 3.127 | 3.875 | 3.873 | 0.375 | 0.413 |
| XP-375-03.125-625B | B-LIP | 3.125 | 3.127 | 3.875 | 3.873 | 0.625 | 0.688 |
| XP-375-03.250-440B | B-LIP | 3.250 | 3.252 | 4.000 | 3.998 | 0.440 | 0.484 |

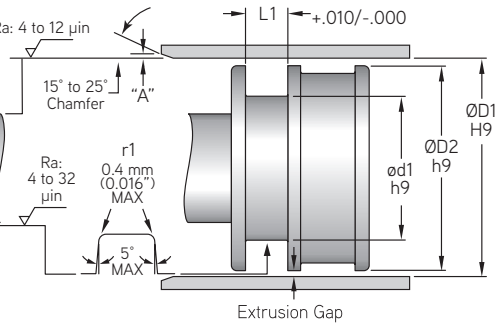
## PROFILE




## ROD APPLICATION

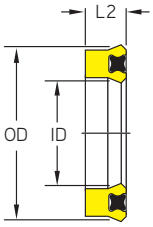



## PISTON APPLICATION

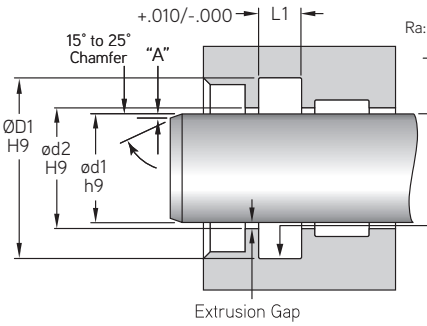



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .375" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-375-03.250-500B | B-LIP | 3.250 | 3.252 | 4.000 | 3.998 | 0.500 | 0.550 |
| XP-375-03.250-562B | B-LIP | 3.250 | 3.252 | 4.000 | 3.998 | 0.562 | 0.619 |
| XP-375-03.250-625B | B-LIP | 3.250 | 3.252 | 4.000 | 3.998 | 0.625 | 0.688 |
| XP-375-03.375-625B | B-LIP | 3.375 | 3.377 | 4.125 | 4.123 | 0.625 | 0.688 |
| XP-375-03.500-500B | B-LIP | 3.500 | 3.502 | 4.250 | 4.248 | 0.500 | 0.550 |
| XP-375-03.500-625B | B-LIP | 3.500 | 3.502 | 4.250 | 4.248 | 0.625 | 0.688 |
| XP-375-03.625-500B | B-LIP | 3.625 | 3.627 | 4.375 | 4.373 | 0.500 | 0.550 |
| XP-375-03.625-562B | B-LIP | 3.625 | 3.627 | 4.375 | 4.373 | 0.562 | 0.619 |
| XP-375-03.625-625B | B-LIP | 3.625 | 3.627 | 4.375 | 4.373 | 0.625 | 0.688 |
| XP-375-03.750-375B | B-LIP | 3.750 | 3.752 | 4.500 | 4.498 | 0.375 | 0.413 |
| XP-375-03.750-460B | B-LIP | 3.750 | 3.752 | 4.500 | 4.498 | 0.460 | 0.506 |
| XP-375-03.750-480B | B-LIP | 3.750 | 3.752 | 4.500 | 4.498 | 0.480 | 0.528 |
| XP-375-03.750-500B | B-LIP | 3.750 | 3.752 | 4.500 | 4.498 | 0.500 | 0.550 |
| XP-375-03.750-625B | B-LIP | 3.750 | 3.752 | 4.500 | 4.498 | 0.625 | 0.688 |
| XP-375-03.875-625B | B-LIP | 3.875 | 3.877 | 4.625 | 4.623 | 0.625 | 0.688 |
| XP-375-04.000-500B | B-LIP | 4.000 | 4.002 | 4.750 | 4.748 | 0.500 | 0.550 |
| XP-375-04.000-625B | B-LIP | 4.000 | 4.002 | 4.750 | 4.748 | 0.625 | 0.688 |
| XP-375-04.125-625B | B-LIP | 4.125 | 4.127 | 4.875 | 4.873 | 0.625 | 0.688 |
| XP-375-04.250-375B | B-LIP | 4.250 | 4.252 | 5.000 | 4.998 | 0.375 | 0.413 |
| XP-375-04.250-500B | B-LIP | 4.250 | 4.252 | 5.000 | 4.998 | 0.500 | 0.550 |
| XP-375-04.250-625B | B-LIP | 4.250 | 4.252 | 5.000 | 4.998 | 0.625 | 0.688 |
| XP-375-04.375-500B | B-LIP | 4.375 | 4.377 | 5.125 | 5.123 | 0.500 | 0.550 |
| XP-375-04.375-625B | B-LIP | 4.375 | 4.377 | 5.125 | 5.123 | 0.625 | 0.688 |
| XP-375-04.500-375B | B-LIP | 4.500 | 4.502 | 5.250 | 5.248 | 0.375 | 0.413 |
| XP-375-04.500-500B | B-LIP | 4.500 | 4.502 | 5.250 | 5.248 | 0.500 | 0.550 |
| XP-375-04.500-625B | B-LIP | 4.500 | 4.502 | 5.250 | 5.248 | 0.625 | 0.688 |
| XP-375-04.625-625B | B-LIP | 4.625 | 4.627 | 5.375 | 5.373 | 0.625 | 0.688 |
| XP-375-04.750-375B | B-LIP | 4.750 | 4.752 | 5.500 | 5.498 | 0.375 | 0.413 |
| XP-375-04.750-500B | B-LIP | 4.750 | 4.752 | 5.500 | 5.498 | 0.500 | 0.550 |
| XP-375-04.750-625B | B-LIP | 4.750 | 4.752 | 5.500 | 5.498 | 0.625 | 0.688 |
| XP-375-04.875-375B | B-LIP | 4.875 | 4.877 | 5.625 | 5.623 | 0.375 | 0.413 |
| XP-375-04.875-625B | B-LIP | 4.875 | 4.877 | 5.625 | 5.623 | 0.625 | 0.688 |
| XP-375-05.000-375B | B-LIP | 5.000 | 5.002 | 5.750 | 5.748 | 0.375 | 0.413 |
| XP-375-05.000-500B | B-LIP | 5.000 | 5.002 | 5.750 | 5.748 | 0.500 | 0.550 |
| XP-375-05.000-625B | B-LIP | 5.000 | 5.002 | 5.750 | 5.748 | 0.625 | 0.688 |

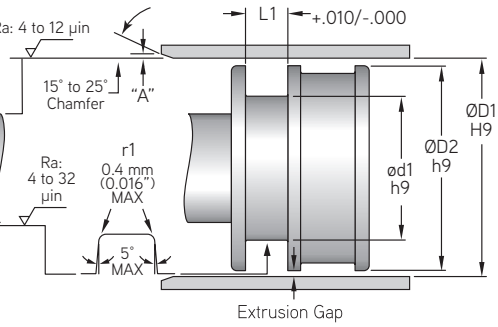
## PROFILE




## ROD APPLICATION

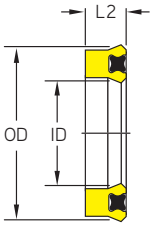



## PISTON APPLICATION

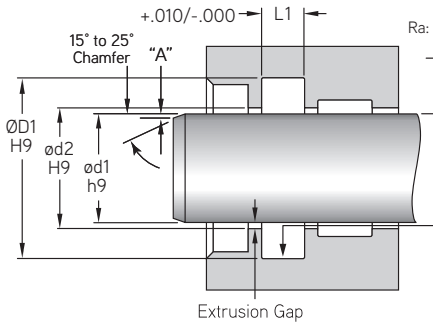



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .375" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-375-05.125-625B | B-LIP | 5.125 | 5.127 | 5.875 | 5.873 | 0.625 | 0.688 |
| XP-375-05.250-375B | B-LIP | 5.250 | 5.252 | 6.000 | 5.998 | 0.375 | 0.413 |
| XP-375-05.250-500B | B-LIP | 5.250 | 5.252 | 6.000 | 5.998 | 0.500 | 0.550 |
| XP-375-05.250-562B | B-LIP | 5.250 | 5.252 | 6.000 | 5.998 | 0.562 | 0.619 |
| XP-375-05.250-625B | B-LIP | 5.250 | 5.252 | 6.000 | 5.998 | 0.625 | 0.688 |
| XP-375-05.375-625B | B-LIP | 5.375 | 5.377 | 6.125 | 6.123 | 0.625 | 0.688 |
| XP-375-05.500-375B | B-LIP | 5.500 | 5.502 | 6.250 | 6.248 | 0.375 | 0.413 |
| XP-375-05.500-500B | B-LIP | 5.500 | 5.502 | 6.250 | 6.248 | 0.500 | 0.550 |
| XP-375-05.500-625B | B-LIP | 5.500 | 5.502 | 6.250 | 6.248 | 0.625 | 0.688 |
| XP-375-05.750-625B | B-LIP | 5.750 | 5.752 | 6.500 | 6.498 | 0.625 | 0.688 |
| XP-375-05.875-625B | B-LIP | 5.875 | 5.877 | 6.625 | 6.623 | 0.625 | 0.688 |
| XP-375-06.000-375B | B-LIP | 6.000 | 6.002 | 6.750 | 6.748 | 0.375 | 0.413 |
| XP-375-06.000-500B | B-LIP | 6.000 | 6.002 | 6.750 | 6.748 | 0.500 | 0.550 |
| XP-375-06.000-562B | B-LIP | 6.000 | 6.002 | 6.750 | 6.748 | 0.562 | 0.619 |
| XP-375-06.000-625B | B-LIP | 6.000 | 6.002 | 6.750 | 6.748 | 0.625 | 0.688 |
| XP-375-06.250-375B | B-LIP | 6.250 | 6.252 | 7.000 | 6.998 | 0.375 | 0.413 |
| XP-375-06.250-500B | B-LIP | 6.250 | 6.252 | 7.000 | 6.998 | 0.500 | 0.550 |
| XP-375-06.250-625B | B-LIP | 6.250 | 6.252 | 7.000 | 6.998 | 0.625 | 0.688 |
| XP-375-06.500-375B | B-LIP | 6.500 | 6.502 | 7.250 | 7.248 | 0.375 | 0.413 |
| XP-375-06.500-500B | B-LIP | 6.500 | 6.502 | 7.250 | 7.248 | 0.500 | 0.550 |
| XP-375-06.500-625B | B-LIP | 6.500 | 6.502 | 7.250 | 7.248 | 0.625 | 0.688 |
| XP-375-06.750-625B | B-LIP | 6.750 | 6.752 | 7.500 | 7.498 | 0.625 | 0.688 |
| XP-375-06.875-625B | B-LIP | 6.875 | 6.877 | 7.625 | 7.623 | 0.625 | 0.688 |
| XP-375-07.000-500B | B-LIP | 7.000 | 7.002 | 7.750 | 7.748 | 0.500 | 0.550 |
| XP-375-07.000-625B | B-LIP | 7.000 | 7.002 | 7.750 | 7.748 | 0.625 | 0.688 |
| XP-375-07.250-375B | B-LIP | 7.250 | 7.252 | 8.000 | 7.998 | 0.375 | 0.413 |
| XP-375-07.250-500B | B-LIP | 7.250 | 7.252 | 8.000 | 7.998 | 0.500 | 0.550 |
| XP-375-07.250-625B | B-LIP | 7.250 | 7.252 | 8.000 | 7.998 | 0.625 | 0.688 |
| XP-375-07.500-500B | B-LIP | 7.500 | 7.502 | 8.250 | 8.248 | 0.500 | 0.550 |
| XP-375-07.500-625B | B-LIP | 7.500 | 7.502 | 8.250 | 8.248 | 0.625 | 0.688 |
| XP-375-07.750-375B | B-LIP | 7.750 | 7.752 | 8.500 | 8.498 | 0.375 | 0.413 |
| XP-375-07.750-500B | B-LIP | 7.750 | 7.752 | 8.500 | 8.498 | 0.500 | 0.550 |
| XP-375-07.750-625B | B-LIP | 7.750 | 7.752 | 8.500 | 8.498 | 0.625 | 0.688 |
| XP-375-08.000-500B | B-LIP | 8.000 | 8.002 | 8.750 | 8.748 | 0.500 | 0.550 |
| XP-375-08.000-625B | B-LIP | 8.000 | 8.002 | 8.750 | 8.748 | 0.625 | 0.688 |

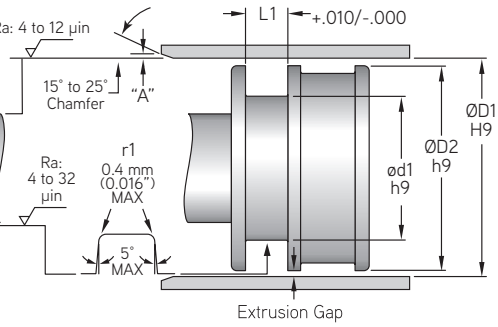
## PROFILE




## ROD APPLICATION

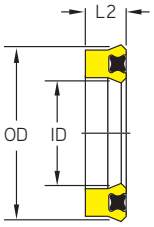



## PISTON APPLICATION

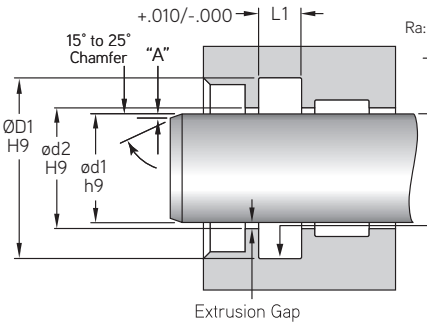



| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .375" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-375-08.125-375B | B-LIP | 8.125 | 8.127 | 8.875 | 8.873 | 0.375 | 0.413 |
| XP-375-08.250-625B | B-LIP | 8.250 | 8.252 | 9.000 | 8.998 | 0.625 | 0.688 |
| XP-375-08.500-500B | B-LIP | 8.500 | 8.502 | 9.250 | 9.248 | 0.500 | 0.550 |
| XP-375-08.500-625B | B-LIP | 8.500 | 8.502 | 9.250 | 9.248 | 0.625 | 0.688 |
| XP-375-08.750-500B | B-LIP | 8.750 | 8.752 | 9.500 | 9.498 | 0.500 | 0.550 |
| XP-375-08.750-625B | B-LIP | 8.750 | 8.752 | 9.500 | 9.498 | 0.625 | 0.688 |
| XP-375-09.000-375B | B-LIP | 9.000 | 9.002 | 9.750 | 9.748 | 0.375 | 0.413 |
| XP-375-09.000-625B | B-LIP | 9.000 | 9.002 | 9.750 | 9.748 | 0.625 | 0.688 |
| XP-375-09.250-500B | B-LIP | 9.250 | 9.252 | 10.000 | 9.998 | 0.500 | 0.550 |
| XP-375-09.250-625B | B-LIP | 9.250 | 9.252 | 10.000 | 9.998 | 0.625 | 0.688 |
| XP-375-09.500-625B | B-LIP | 9.500 | 9.502 | 10.250 | 10.248 | 0.625 | 0.688 |
| XP-375-09.750-625B | B-LIP | 9.750 | 9.752 | 10.500 | 10.498 | 0.625 | 0.688 |
| XP-375-10.000-625B | B-LIP | 10.000 | 10.002 | 10.750 | 10.748 | 0.625 | 0.688 |
| XP-375-10.250-500B | B-LIP | 10.250 | 10.252 | 11.000 | 10.998 | 0.500 | 0.550 |
| XP-375-10.500-375B | B-LIP | 10.500 | 10.502 | 11.250 | 11.248 | 0.375 | 0.413 |
| XP-375-10.500-625B | B-LIP | 10.500 | 10.502 | 11.250 | 11.248 | 0.625 | 0.688 |
| XP-375-10.750-625B | B-LIP | 10.750 | 10.752 | 11.500 | 11.498 | 0.625 | 0.688 |
| XP-375-11.000-625B | B-LIP | 11.000 | 11.002 | 11.750 | 11.748 | 0.625 | 0.688 |
| XP-375-11.250-625B | B-LIP | 11.250 | 11.252 | 12.000 | 11.998 | 0.625 | 0.688 |
| XP-375-11.500-625B | B-LIP | 11.500 | 11.502 | 12.250 | 12.248 | 0.625 | 0.688 |
| XP-375-11.750-625B | B-LIP | 11.750 | 11.752 | 12.500 | 12.498 | 0.625 | 0.688 |
| XP-375-12.000-625B | B-LIP | 12.000 | 12.002 | 12.750 | 12.748 | 0.625 | 0.688 |
| XP-375-12.750-625B | B-LIP | 12.750 | 12.752 | 13.500 | 13.498 | 0.625 | 0.688 |
| XP-375-13.250-625B | B-LIP | 13.250 | 13.252 | 14.000 | 13.998 | 0.625 | 0.688 |
| XP-375-13.625-625B | B-LIP | 13.625 | 13.627 | 14.375 | 14.373 | 0.625 | 0.688 |
| XP-375-14.000-625B | B-LIP | 14.000 | 14.002 | 14.750 | 14.748 | 0.625 | 0.688 |
| XP-375-14.250-625B | B-LIP | 14.250 | 14.252 | 15.000 | 14.998 | 0.625 | 0.688 |
| XP-375-14.375-625B | B-LIP | 14.375 | 14.377 | 15.125 | 15.123 | 0.625 | 0.688 |
| XP-375-14.750-625B | B-LIP | 14.750 | 14.752 | 15.500 | 15.498 | 0.625 | 0.688 |
| XP-375-15.250-625B | B-LIP | 15.250 | 15.252 | 16.000 | 15.998 | 0.625 | 0.688 |
| XP-375-18.500-500B | B-LIP | 18.500 | 18.502 | 19.250 | 19.248 | 0.500 | 0.550 |
| XP-375-27.750-625B | B-LIP | 27.750 | 27.752 | 28.500 | 28.498 | 0.625 | 0.688 |
| XP-375-30.250-625B | B-LIP | 30.250 | 30.252 | 31.000 | 30.998 | 0.625 | 0.688 |
| XP-375-35.000-625B | B-LIP | 35.000 | 35.002 | 35.750 | 35.748 | 0.625 | 0.688 |
| XP-375-40.250-625B | B-LIP | 40.250 | 40.252 | 41.000 | 40.998 | 0.625 | 0.688 |

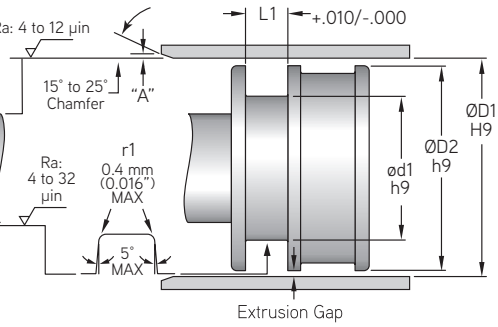
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION



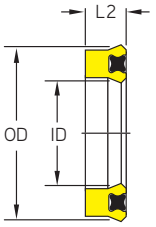

| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| **.406" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-406-08.500-500B | B-LIP | 8.500 | 8.502 | 9.312 | 9.310 | 0.500 | 0.550 |
| **.437" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-437-03.000-690B | B-LIP | 3.000 | 3.002 | 3.875 | 3.873 | 0.690 | 0.759 |
| XP-437-03.375-1000B | B-LIP | 3.375 | 3.377 | 4.250 | 4.248 | 1.000 | 1.100 |
| XP-437-03.875-750B | B-LIP | 3.875 | 3.877 | 4.750 | 4.748 | 0.750 | 0.825 |
| XP-437-04.000-750B | B-LIP | 4.000 | 4.002 | 4.875 | 4.873 | 0.750 | 0.825 |
| XP-437-04.500-750B | B-LIP | 4.500 | 4.502 | 5.375 | 5.373 | 0.750 | 0.825 |
| XP-437-04.750-750B | B-LIP | 4.750 | 4.752 | 5.625 | 5.623 | 0.750 | 0.825 |
| XP-437-05.500-500B | B-LIP | 5.500 | 5.502 | 6.375 | 6.373 | 0.500 | 0.550 |
| XP-437-07.500-500B | B-LIP | 7.500 | 7.502 | 8.375 | 8.373 | 0.500 | 0.550 |
| XP-437-10.625-625B | B-LIP | 10.625 | 10.627 | 11.500 | 11.498 | 0.625 | 0.688 |
| XP-437-13.125-437B | B-LIP | 13.125 | 13.127 | 14.000 | 13.998 | 0.437 | 0.483 |
| **.500" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-500-01.250-750B | B-LIP | 1.250 | 1.252 | 2.250 | 2.248 | 0.750 | 0.825 |
| XP-500-01.750-750B | B-LIP | 1.750 | 1.752 | 2.750 | 2.748 | 0.750 | 0.825 |
| XP-500-01.875-625B | B-LIP | 1.875 | 1.877 | 2.875 | 2.873 | 0.625 | 0.688 |
| XP-500-02.000-500B | B-LIP | 2.000 | 2.002 | 3.000 | 2.998 | 0.500 | 0.550 |
| XP-500-02.000-750B | B-LIP | 2.000 | 2.002 | 3.000 | 2.998 | 0.750 | 0.825 |
| XP-500-02.375-500B | B-LIP | 2.375 | 2.377 | 3.375 | 3.373 | 0.500 | 0.550 |
| XP-500-02.500-500B | B-LIP | 2.500 | 2.502 | 3.500 | 3.498 | 0.500 | 0.550 |
| XP-500-02.500-750B | B-LIP | 2.500 | 2.502 | 3.500 | 3.498 | 0.750 | 0.825 |
| XP-500-02.750-750B | B-LIP | 2.750 | 2.752 | 3.750 | 3.748 | 0.750 | 0.825 |
| XP-500-03.000-500B | B-LIP | 3.000 | 3.002 | 4.000 | 3.998 | 0.500 | 0.550 |
| XP-500-03.000-625B | B-LIP | 3.000 | 3.002 | 4.000 | 3.998 | 0.625 | 0.688 |
| XP-500-03.000-750B | B-LIP | 3.000 | 3.002 | 4.000 | 3.998 | 0.750 | 0.825 |
| XP-500-03.000-875B | B-LIP | 3.000 | 3.002 | 4.000 | 3.998 | 0.875 | 0.963 |
| XP-500-03.250-1000B | B-LIP | 3.250 | 3.252 | 4.250 | 4.248 | 1.000 | 1.100 |
| XP-500-03.250-750B | B-LIP | 3.250 | 3.252 | 4.250 | 4.248 | 0.750 | 0.825 |
| XP-500-03.375-625B | B-LIP | 3.375 | 3.377 | 4.375 | 4.373 | 0.625 | 0.688 |
| XP-500-03.500-500B | B-LIP | 3.500 | 3.502 | 4.500 | 4.498 | 0.500 | 0.550 |
| XP-500-03.500-750B | B-LIP | 3.500 | 3.502 | 4.500 | 4.498 | 0.750 | 0.825 |
| XP-500-03.750-690B | B-LIP | 3.750 | 3.752 | 4.750 | 4.748 | 0.690 | 0.759 |
| XP-500-04.000-500B | B-LIP | 4.000 | 4.002 | 5.000 | 4.998 | 0.500 | 0.550 |
| XP-500-04.000-625B | B-LIP | 4.000 | 4.002 | 5.000 | 4.998 | 0.625 | 0.688 |
| XP-500-04.000-675B | B-LIP | 4.000 | 4.002 | 5.000 | 4.998 | 0.675 | 0.743 |

# X-PAC® Loaded B-Lip - Symmetrical U-Cup

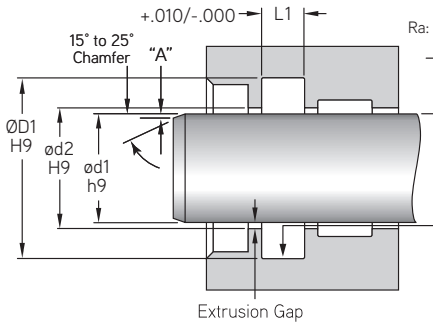
*A product of MFP Seals.*

MFP SEALS
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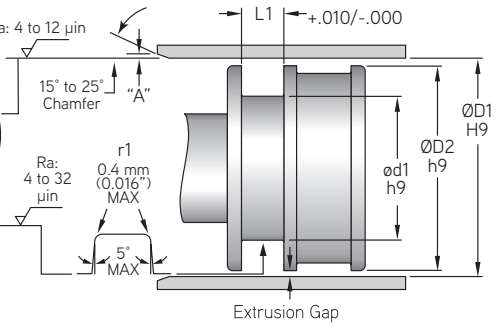
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .500" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-500-04.000-750B | B-LIP | 4.000 | 4.002 | 5.000 | 4.998 | 0.750 | 0.825 |
| XP-500-04.250-750B | B-LIP | 4.250 | 4.252 | 5.250 | 5.248 | 0.750 | 0.825 |
| XP-500-04.375-750B | B-LIP | 4.375 | 4.377 | 5.375 | 5.373 | 0.750 | 0.825 |
| XP-500-04.500-500B | B-LIP | 4.500 | 4.502 | 5.500 | 5.498 | 0.500 | 0.550 |
| XP-500-04.500-750B | B-LIP | 4.500 | 4.502 | 5.500 | 5.498 | 0.750 | 0.825 |
| XP-500-04.750-690B | B-LIP | 4.750 | 4.752 | 5.750 | 5.748 | 0.690 | 0.759 |
| XP-500-04.750-750B | B-LIP | 4.750 | 4.752 | 5.750 | 5.748 | 0.750 | 0.825 |
| XP-500-05.000-500B | B-LIP | 5.000 | 5.002 | 6.000 | 5.998 | 0.500 | 0.550 |
| XP-500-05.000-625B | B-LIP | 5.000 | 5.002 | 6.000 | 5.998 | 0.625 | 0.688 |
| XP-500-05.000-750B | B-LIP | 5.000 | 5.002 | 6.000 | 5.998 | 0.750 | 0.825 |
| XP-500-05.250-500B | B-LIP | 5.250 | 5.252 | 6.250 | 6.248 | 5.000 | 0.550 |
| XP-500-05.250-750B | B-LIP | 5.250 | 5.252 | 6.250 | 6.248 | 0.750 | 0.825 |
| XP-500-05.375-750B | B-LIP | 5.375 | 5.377 | 6.375 | 6.373 | 0.750 | 0.825 |
| XP-500-05.500-625B | B-LIP | 5.500 | 5.502 | 6.500 | 6.498 | 0.625 | 0.688 |
| XP-500-05.500-750B | B-LIP | 5.500 | 5.502 | 6.500 | 6.498 | 0.750 | 0.825 |
| XP-500-05.750-750B | B-LIP | 5.750 | 5.752 | 6.750 | 6.748 | 0.750 | 0.825 |
| XP-500-05.875-750B | B-LIP | 5.875 | 5.877 | 6.875 | 6.873 | 0.750 | 0.825 |
| XP-500-06.000-500B | B-LIP | 6.000 | 6.002 | 7.000 | 6.998 | 0.500 | 0.550 |
| XP-500-06.000-750B | B-LIP | 6.000 | 6.002 | 7.000 | 6.998 | 0.750 | 0.825 |
| XP-500-06.250-750B | B-LIP | 6.250 | 6.252 | 7.250 | 7.248 | 0.750 | 0.825 |
| XP-500-06.500-750B | B-LIP | 6.500 | 6.502 | 7.500 | 7.498 | 0.750 | 0.825 |
| XP-500-06.750-750B | B-LIP | 6.750 | 6.752 | 7.750 | 7.748 | 0.750 | 0.825 |
| XP-500-07.000-750B | B-LIP | 7.000 | 7.002 | 8.000 | 7.998 | 0.750 | 0.825 |
| XP-500-07.250-750B | B-LIP | 7.250 | 7.252 | 8.250 | 8.248 | 0.750 | 0.825 |
| XP-500-07.500-750B | B-LIP | 7.500 | 7.502 | 8.500 | 8.498 | 0.750 | 0.825 |
| XP-500-07.750-750B | B-LIP | 7.750 | 7.752 | 8.750 | 8.748 | 0.750 | 0.825 |
| XP-500-08.000-500B | B-LIP | 8.000 | 8.002 | 9.000 | 8.998 | 0.500 | 0.550 |
| XP-500-08.000-625B | B-LIP | 8.000 | 8.002 | 9.000 | 8.998 | 0.625 | 0.688 |
| XP-500-08.000-750B | B-LIP | 8.000 | 8.002 | 9.000 | 8.998 | 0.750 | 0.825 |
| XP-500-08.500-750B | B-LIP | 8.500 | 8.502 | 9.500 | 9.498 | 0.750 | 0.825 |
| XP-500-09.000-687B | B-LIP | 9.000 | 9.002 | 10.000 | 9.998 | 0.687 | 0.756 |
| XP-500-09.000-690B | B-LIP | 9.000 | 9.002 | 10.000 | 9.998 | 0.690 | 0.759 |
| XP-500-09.000-750B | B-LIP | 9.000 | 9.002 | 10.000 | 9.998 | 0.750 | 0.825 |
| XP-500-09.250-750B | B-LIP | 9.250 | 9.252 | 10.250 | 10.248 | 0.750 | 0.825 |
| XP-500-09.500-750B | B-LIP | 9.500 | 9.502 | 10.500 | 10.498 | 0.750 | 0.825 |

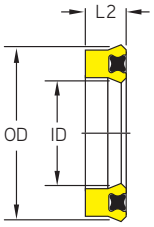


Compound information available on pages 20-37.

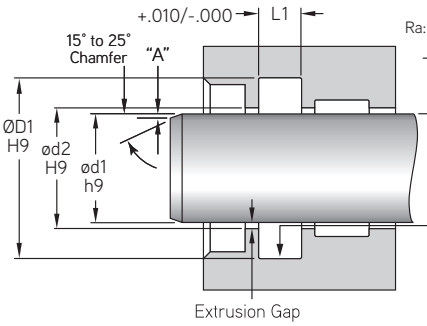


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

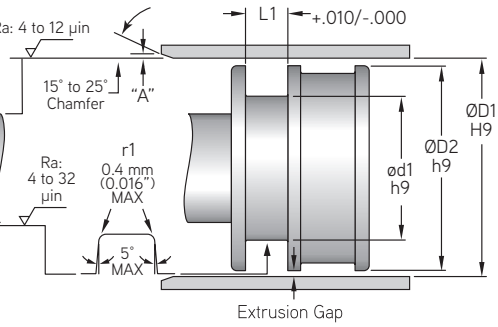
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION



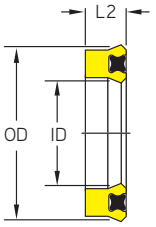

| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .500" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-500-09.750-750B | B-LIP | 9.750 | 9.752 | 10.750 | 10.748 | 0.750 | 0.825 |
| XP-500-10.000-750B | B-LIP | 10.000 | 10.002 | 11.000 | 10.998 | 0.750 | 0.825 |
| XP-500-10.500-1000B | B-LIP | 10.500 | 10.502 | 11.500 | 11.498 | 1.000 | 1.100 |
| XP-500-10.500-750B | B-LIP | 10.500 | 10.502 | 11.500 | 11.498 | 0.750 | 0.825 |
| XP-500-10.625-750B | B-LIP | 10.625 | 10.627 | 11.625 | 11.623 | 0.750 | 0.825 |
| XP-500-10.750-750B | B-LIP | 10.750 | 10.752 | 11.750 | 11.748 | 0.750 | 0.825 |
| XP-500-11.000-750B | B-LIP | 11.000 | 11.002 | 12.000 | 11.998 | 0.750 | 0.825 |
| XP-500-11.750-750B | B-LIP | 11.750 | 11.752 | 12.750 | 12.748 | 0.750 | 0.825 |
| XP-500-11.875-750B | B-LIP | 11.875 | 11.877 | 12.875 | 12.873 | 0.750 | 0.825 |
| XP-500-12.000-690B | B-LIP | 12.000 | 12.002 | 13.000 | 12.998 | 0.690 | 0.759 |
| XP-500-12.000-750B | B-LIP | 12.000 | 12.002 | 13.000 | 12.998 | 0.750 | 0.825 |
| XP-500-12.500-750B | B-LIP | 12.500 | 12.502 | 13.500 | 13.498 | 0.750 | 0.825 |
| XP-500-12.750-750B | B-LIP | 12.750 | 12.752 | 13.750 | 13.748 | 0.750 | 0.825 |
| XP-500-13.000-750B | B-LIP | 13.000 | 13.002 | 14.000 | 13.998 | 0.750 | 0.825 |
| XP-500-13.500-750B | B-LIP | 13.500 | 13.502 | 14.500 | 14.498 | 0.750 | 0.825 |
| XP-500-14.000-750B | B-LIP | 14.000 | 14.002 | 15.000 | 14.998 | 0.750 | 0.825 |
| XP-500-15.000-750B | B-LIP | 15.000 | 15.002 | 16.000 | 15.998 | 0.750 | 0.825 |
| XP-500-15.750-750B | B-LIP | 15.750 | 15.752 | 16.750 | 16.748 | 0.750 | 0.825 |
| XP-500-16.000-750B | B-LIP | 16.000 | 16.002 | 17.000 | 16.998 | 0.750 | 0.825 |
| XP-500-16.500-750B | B-LIP | 16.500 | 16.502 | 17.500 | 17.498 | 0.750 | 0.825 |
| XP-500-17.000-750B | B-LIP | 17.000 | 17.002 | 18.000 | 17.998 | 0.750 | 0.825 |
| XP-500-17.500-750B | B-LIP | 17.500 | 17.502 | 18.500 | 18.498 | 0.750 | 0.825 |
| XP-500-18.000-750B | B-LIP | 18.000 | 18.002 | 19.000 | 18.998 | 0.750 | 0.825 |
| XP-500-19.000-750B | B-LIP | 19.000 | 19.002 | 20.000 | 19.998 | 0.750 | 0.825 |
| XP-500-20.000-750B | B-LIP | 20.000 | 20.002 | 21.000 | 20.998 | 0.750 | 0.825 |
| XP-500-21.000-750B | B-LIP | 21.000 | 21.002 | 22.000 | 21.998 | 0.750 | 0.825 |
| XP-500-23.000-750B | B-LIP | 23.000 | 23.002 | 24.000 | 23.998 | 0.750 | 0.825 |
| XP-500-24.500-750B | B-LIP | 24.500 | 24.502 | 25.500 | 25.498 | 0.750 | 0.825 |
| XP-500-25.500-750B | B-LIP | 25.500 | 25.502 | 26.500 | 26.498 | 0.750 | 0.825 |
| XP-500-30.250-750B | B-LIP | 30.250 | 30.252 | 31.250 | 31.248 | 0.750 | 0.825 |
| .562" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-562-03.000-625B | B-LIP | 3.000 | 3.002 | 4.125 | 4.123 | 0.625 | 0.688 |
| XP-562-03.250-1000B | B-LIP | 3.250 | 3.252 | 4.375 | 4.373 | 1.000 | 1.100 |
| XP-562-04.000-750B | B-LIP | 4.000 | 4.002 | 5.125 | 5.123 | 0.750 | 0.825 |
| XP-625-01.625-1000B | B-LIP | 1.625 | 1.627 | 2.875 | 2.873 | 1.000 | 1.100 |

# X-PAC® Loaded B-Lip - Symmetrical U-Cup

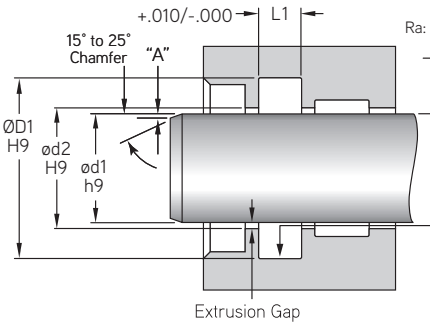
*A product of MFP Seals.*

MFP SEALS
www.mfpseals.com

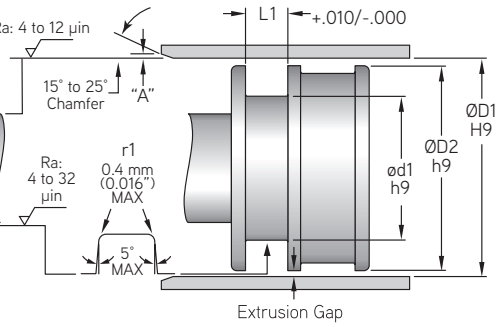
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| **.625" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-625-03.250-1000B | B-LIP | 3.250 | 3.252 | 4.500 | 4.498 | 1.000 | 1.100 |
| XP-625-03.250-750B | B-LIP | 3.250 | 3.252 | 4.500 | 4.498 | 0.750 | 0.825 |
| XP-625-03.750-1000B | B-LIP | 3.750 | 3.752 | 5.000 | 4.998 | 1.000 | 1.100 |
| XP-625-04.250-1000B | B-LIP | 4.250 | 4.252 | 5.500 | 5.498 | 1.000 | 1.100 |
| XP-625-04.250-750B | B-LIP | 4.250 | 4.252 | 5.500 | 5.498 | 0.750 | 0.825 |
| XP-625-05.250-1000B | B-LIP | 5.250 | 5.252 | 6.500 | 6.498 | 1.000 | 1.100 |
| XP-625-05.750-1000B | B-LIP | 5.750 | 5.752 | 7.000 | 6.998 | 1.000 | 1.100 |
| XP-625-06.000-625B | B-LIP | 6.000 | 6.002 | 7.250 | 7.248 | 0.625 | 0.688 |
| XP-625-06.250-1000B | B-LIP | 6.250 | 6.252 | 7.500 | 7.498 | 1.000 | 1.100 |
| XP-625-07.000-1000B | B-LIP | 7.000 | 7.002 | 8.250 | 8.248 | 1.000 | 1.100 |
| XP-625-07.500-1000B | B-LIP | 7.500 | 7.502 | 8.750 | 8.748 | 1.000 | 1.100 |
| XP-625-08.250-1000B | B-LIP | 8.250 | 8.252 | 9.500 | 9.498 | 1.000 | 1.100 |
| XP-625-08.500-1000B | B-LIP | 8.500 | 8.502 | 9.750 | 9.748 | 1.000 | 1.100 |
| XP-625-10.000-1000B | B-LIP | 10.000 | 10.002 | 11.250 | 11.248 | 1.000 | 1.100 |
| XP-625-10.500-625B | B-LIP | 10.500 | 10.502 | 11.750 | 11.748 | 0.625 | 0.688 |
| XP-625-11.000-1000B | B-LIP | 11.000 | 11.002 | 12.250 | 12.248 | 1.000 | 1.100 |
| XP-625-11.250-1000B | B-LIP | 11.250 | 11.252 | 12.500 | 12.498 | 1.000 | 1.100 |
| XP-625-11.500-1000B | B-LIP | 11.500 | 11.502 | 12.750 | 12.748 | 1.000 | 1.100 |
| XP-625-12.250-1000B | B-LIP | 12.250 | 12.252 | 13.500 | 13.498 | 1.000 | 1.100 |
| XP-625-13.000-1000B | B-LIP | 13.000 | 13.002 | 14.250 | 14.248 | 1.000 | 1.100 |
| XP-625-13.500-875B | B-LIP | 13.500 | 13.502 | 14.750 | 14.748 | 0.875 | 0.963 |
| XP-625-14.750-1000B | B-LIP | 14.750 | 14.752 | 16.000 | 15.998 | 1.000 | 1.100 |
| XP-625-15.500-1000B | B-LIP | 15.500 | 15.502 | 16.750 | 16.748 | 1.000 | 1.100 |
| XP-625-18.000-1000B | B-LIP | 18.000 | 18.002 | 19.250 | 19.248 | 1.000 | 1.100 |
| XP-625-18.750-1000B | B-LIP | 18.750 | 18.752 | 20.000 | 19.998 | 1.000 | 1.100 |
| XP-625-30.750-1000B | B-LIP | 30.750 | 30.752 | 32.000 | 31.998 | 1.000 | 1.100 |
| **.687" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-687-24.375-687B | B-LIP | 24.375 | 24.377 | 25.750 | 25.748 | 0.687 | 0.756 |
| **.750" - C/S** | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-750-03.500-750B | B-LIP | 3.500 | 3.502 | 5.000 | 4.998 | 0.750 | 0.825 |
| XP-750-08.000-1250B | B-LIP | 8.000 | 8.002 | 9.500 | 9.498 | 1.250 | 1.375 |
| XP-750-08.500-1125B | B-LIP | 8.500 | 8.502 | 10.000 | 9.998 | 1.125 | 1.238 |
| XP-750-09.000-1250B | B-LIP | 9.000 | 9.002 | 10.500 | 10.498 | 1.250 | 1.375 |
| XP-750-09.000-1500B | B-LIP | 9.000 | 9.002 | 10.500 | 10.498 | 1.500 | 1.650 |
| XP-750-10.000-1250B | B-LIP | 10.000 | 10.002 | 11.500 | 11.498 | 1.250 | 1.375 |

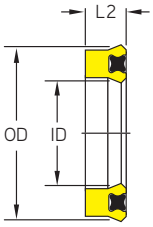


Compound information available on pages 20-37.

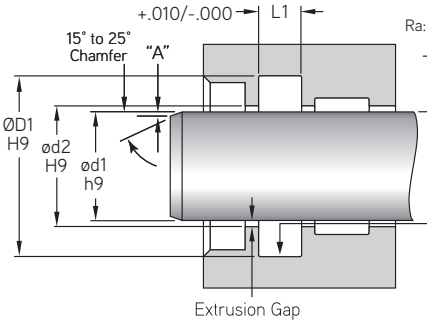


Surface Finish: ISO 4287 & Chamfer Information on pages 7-9.
For ISO tolerance charts, refer to pages 12-13.

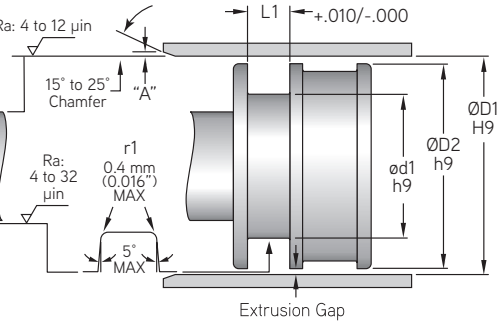
## PROFILE




## ROD APPLICATION




## PISTON APPLICATION




| MFP PART NUMBER | PROFILE STYLE | ROD OR PISTON APPLICATION | | | | | |
|---|---|---|---|---|---|---|---|
| | | ød1 | ød2 | ØD1 | ØD2 | L2 | L1 |
| .750" - C/S | | h9 | H9 | H9 | h9 | | +.010/-.000 |
| XP-750-10.500-1000B | B-LIP | 10.500 | 10.502 | 12.000 | 11.998 | 1.000 | 1.100 |
| XP-750-10.500-1250B | B-LIP | 10.500 | 10.502 | 12.000 | 11.998 | 1.250 | 1.375 |
| XP-750-12.000-1250B | B-LIP | 12.000 | 12.002 | 13.500 | 13.498 | 1.250 | 1.375 |
| XP-750-14.000-1250B | B-LIP | 14.000 | 14.002 | 15.500 | 15.498 | 1.250 | 1.375 |
| XP-750-14.250-1250B | B-LIP | 14.250 | 14.252 | 15.750 | 15.748 | 1.250 | 1.375 |
| XP-750-14.500-1125B | B-LIP | 14.500 | 14.502 | 16.000 | 15.998 | 1.125 | 1.238 |
| XP-750-16.000-1250B | B-LIP | 16.000 | 16.002 | 17.500 | 17.498 | 1.125 | 1.375 |
| XP-750-17.000-1250B | B-LIP | 17.000 | 17.002 | 18.500 | 18.498 | 1.250 | 1.375 |
| XP-750-18.000-1250B | B-LIP | 18.000 | 18.002 | 19.500 | 19.498 | 1.250 | 1.375 |
| XP-750-18.500-1250B | B-LIP | 18.500 | 18.502 | 20.000 | 19.998 | 1.250 | 1.375 |
| XP-750-20.000-1250B | B-LIP | 20.000 | 20.002 | 21.500 | 21.498 | 1.250 | 1.375 |