

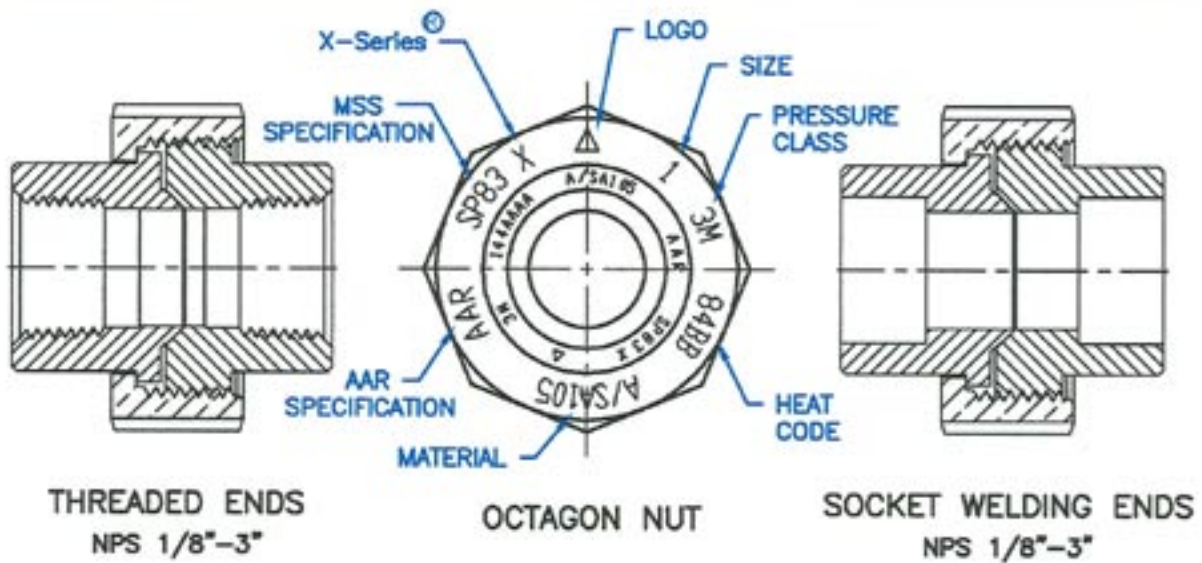


The Phoenix Forge Group

THE NEW PHOENIX-CAPITOL X-Series®

CLASS 3000 UNIONS

- MEETS MSS SP-83 and AAR M-404-42 •



INDUSTRIAL SPECIFICATIONS

MSS SP-83
 AAR M-404-42
 ASME B1.20.1
 ASTM/ASME A/SA105
 ASME B1.1 CLASS 2A and 2B
 MSS SP-25
 ASME B36.10M
 NACE MR0175

WARNING:

NOT INTERCHANGEABLE WITH OLD STYLE CAPITOL and PHOENIX UNIONS



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CAPITOL MANUFACTURING

Member of The Phoenix Forge Group

Introduces

The X-Series® Unions

HISTORY AND DEVELOPMENT OF X-SERIES® UNIONS

Capitol Manufacturing joined The Phoenix Forge Group in July 2002. The Phoenix Fittings and Capitol Manufacturing design of forged steel unions both fully conformed to MSS SP-83 standards but were not interchangeable with each other. This resulted in the need to standardize Phoenix Fittings and Capitol Manufacturing forged steel unions to eliminate duplication of effort, production, and inventory. Unfortunately, the industry standard MSS-SP-83 did not cover requirements for standardized threads, seats, or envelope dimensions.

The Phoenix Forge Group management has decided to develop one union using the dominant industry standard AAR-M404-42 as a basis for standardizing the design of threads, seats, and envelope dimensions. This results in an acceptable industry standardized union and eliminates the need to manufacture and inventory different designs of unions which meet MSS SP-83 but are not functionally interchangeable.

Our new standardized unions are called the X-Series® Unions, a registered trademark of the Phoenix Forge Group. These new unions are manufactured using superior state of the art forging and machining equipment to provide the highest level of material integrity and dimensional quality.

Each component of the new X-Series® Union fully conforms to the specified requirements of AAR-M404-42 and MSS SP-83 and is individually identified by permanently die stamping each part with the following symbols:

AAR SP83 X

Old style Phoenix Fittings and Capitol Manufacturing union components that do not bear these specific markings are not safely interchangeable and should not be used with the new X-Series® unions. Phoenix and Capitol old style unions are being transitioned out of production and inventory will be replaced by the X-Series® unions. Any field replacement of old style unions will require retrofitting the application with X-Series® unions. It is strongly recommended that end users are advised to replace existing unions during routine maintenance or repair with our new X-Series® unions.

Part Number Comparison Chart

Description	New Style X-Series® P/N	Old Style Phoenix P/N	Old Style Capitol P/N
1/4" FS 3M THD AAR UNION X-Series®	12204003 X	12204003 PF	12204003
3/8" FS 3M THD AAR UNION X-Series®	12204004 X	12204004 PF	12204004
1/2" FS 3M THD AAR UNION X-Series®	12204005 X	12204005 PF	12204005
3/4" FS 3M THD AAR UNION X-Series®	12204007 X	12204007 PF	12204007
1" FS 3M THD AAR UNION X-Series®	12204010 X	12204010 PF	12204010
1-1/4" FS 3M THD AAR UNION X-Series®	12204013 X	12204013 PF	12204013
1-1/2" FS 3M THD AAR UNION X-Series®	12204015 X	12204015 PF	12204015
2" FS 3M THD AAR UNION X-Series®	12204020 X	12204020 PF	12204020
2-1/2" FS 3M THD AAR UNION X-Series®	12204025 X	12204025 PF	12204025
3" FS 3M THD AAR UNION X-Series®	12204030 X	12204030 PF	12204030
SW AAR UNIONS			
1/4" FS 3M S/W AAR UNION X-Series®	12404003 X	12404003 PF	12404003
3/8" FS 3M S/W AAR UNION X-Series®	12404004 X	12404004 PF	12404004
1/2" FS 3M S/W AAR UNION X-Series®	12404005 X	12404005 PF	12404005
3/4" FS 3M S/W AAR UNION X-Series®	12404007 X	12404007 PF	12404007
1" FS 3M S/W AAR UNION X-Series®	12404010 X	12404010 PF	12404010
1-1/4" FS 3M S/W AAR UNION X-Series®	12404013 X	12404013 PF	12404013
1-1/2" FS 3M S/W AAR UNION X-Series®	12404015 X	12404015 PF	12404015
2" FS 3M S/W AAR UNION X-Series®	12404020 X	12404020 PF	12404020
2-1/2" FS 3M S/W AAR UNION X-Series®	12404025 X	12404025 PF	12404025
3" FS 3M S/W AAR UNION X-Series®	12404030 X	12404030 PF	12404030

*** Contact your sales representative for more information on the new X-Series® unions.