



Commanding a Higher Standard<sup>SM</sup>

## THE PHOENIX FORGE GROUP

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### PRODUCT SPECIFICATION BULLETIN

#### CERTIFICATE of COMPLIANCE

#### **PIPE UNIONS, SOCKET-WELDING and THREADED – MSS SP-83**

We hereby certify that the forged steel pipe unions manufactured by Capitol Manufacturing conform to the requirements of the latest edition of MSS SP-83 and AAR-404-42. The raw material used to produce these fittings conforms to the requirements of the latest edition of ASTM/ASME A/SA105 Standard Specification for Carbon Steel Forgings for Piping Applications, or, ASTM/ASME A/SA182 Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service.

These products conform to the applicable metallurgical and the maximum hardness requirements of Rockwell C22 as specified in the latest edition of NACE MR0175/ISO15156 and NACE MR0103. These products conform to the applicable requirements of CSA B51-19 and the latest editions of ASME B31.1, B31.3, B31.8, and ASME Section VIII, Division 1 and 2 of the Boiler and Pressure Vessel Codes.

The threads of these unions conform to the latest edition of the ASME B1.20.1 NPT General Purpose Pipe Thread Standard as specified by MSS SP-83. The standard surface finish of ASTM/ASME A/SA105 forged fittings is clean and black phosphate conversion coated. The standard finish for ASTM/ASME A/SA182 forged fittings is pickled and passivated in accordance with the latest edition of ASTM A380 Standard Practice for Cleaning and Descaling Stainless Steel Parts, Equipment, and Systems. These products contain less than 0.25% lead conforming to the low lead maximum limits specified by the Safe Drinking Water Act of 2014, NSF/ANSI 61 and NSF/ANSI 372. These products were not exposed to mercury or any other metal alloy that is liquid at ambient temperatures during processing or while in our possession. These unions are capable of passing a hydrostatic test compatible with the rating of the finished forging.

These products are manufactured in accordance with the latest edition of Capitol Manufacturing or Phoenix Forging Company Quality Management System Program conforming to the requirements of ISO 9001:2015. Capitol Manufacturing or Phoenix Forging Company brand forged fittings are forged, machined, and inspected in the United States of America.

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**CAPITOL**  
manufacturing  
Crowley, LA, USA

**CAMCO**  
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