



Commanding a Higher StandardSM

THE PHOENIX FORGE GROUP

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PRODUCT SPECIFICATION BULLETIN

DECLARATION OF CONFORMANCE

FORGED STEEL FITTINGS – ASTM A105

The forged steel fittings manufactured by Capitol Manufacturing and Phoenix Forging Company conform to the requirements of the latest edition of ASTM/ASME A/SA105 Standard Specification for Carbon Steel Forgings for Piping Applications.

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 carbon equivalent of this material does not exceed the 0.47 maximum carbon equivalent value specified in supplementary requirement S.4 of ASTM A105. The steel that was used to make these forged fittings was fully killed during the steel making process using fine-grained melting practice. As specified by ASTM A105, round specimens were used during tensile testing to establish the basis of the minimum elongation criteria of 22%. The yield stress measurements were taken at .2% offset method on the stress-strain curve as specified by ASTM E-8.

These products are manufactured in accordance with the Capitol Manufacturing and Phoenix Forging Company Certified Quality System Program conforming to ISO 9001:2015. 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

The raw material used to make these forged steel fittings was melted in USA or Canada. These forged steel fittings are forged, machined and inspected in the USA.

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