



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

# THE PHOENIX FORGE GROUP

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## PRODUCT SPECIFICATION BULLETIN

### CERTIFICATE of COMPLIANCE

#### SWAGE NIPPLES and BULL PLUGS – CARBON STEEL

We hereby certify that the carbon steel swage nipples and bull plugs manufactured by Capitol Manufacturing conform to the chemical and mechanical requirements of ASTM/ASME A/SA234 Grade WPB seamless materials. These products are acceptable for use in sour service applications conforming to the applicable metallurgical and hardness requirements of requirements of NACE MR0175, NACE MR0103, and ISO 15156 and do not exceed a Rockwell hardness of C-22 or a Brinnell hardness of 197 HBW maximum.

These products conform to MSS SP-95 and the applicable requirements of CSA-51, ASME B31.1, B31.3, and ASME Section VIII, Division 1 Boiler and Pressure Vessel Codes. These products are made from seamless materials only and are not of welded construction.

The threads are manufactured and inspected in accordance with the ASME B1.20.1 pipe thread standard. The dimensions of these fittings conform to the requirements of MSS-SP95. The end wall thickness of the bull plugs manufactured by Capitol Manufacturing is equal to or greater than, the minimum L2 internal thread length requirements of ASME B1.20.1.

We certify that the design of swage nipples and bull plugs manufactured by Capitol Manufacturing was verified by proof testing prototype fittings in accordance with Sections 2 and 9 of MSS SP-95. We further certify that these swage nipples and bull plugs are manufactured and inspected in the United States of America.

These products are produced in accordance with the Capitol Manufacturing ISO 9001:2008 Certified Quality System Program. These products are inspected by independent quality control personnel conforming to the requirements of EN 10204 Section 3.1. 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 products do not include heavy metals (lead, mercury, cadmium, and hexavalent chromium) and brominated flame retardants (polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) and fully comply with the European Directive EU 2011/65/EC RoHS requirements. We further certify that these products fully conform to the low lead Safe Drinking Water Act of 2014 and NSF 61 requirements containing less than 0.25% lead.

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