



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

# THE PHOENIX FORGE GROUP

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## PRODUCT SPECIFICATION BULLETIN

### CERTIFICATE of COMPLIANCE

### TRANS-O-CON® BRANCH CONNECTIONS

We hereby certify that the TRANS-O-CON® forged branch connections manufactured by Phoenix Forging Company conform to the requirements of the latest edition of MSS SP-97. These branch connections also comply with the latest edition of NACE MR01-75 and NACE MR0103 and do not exceed a Brinell hardness of 187 maximum. We further certify that these branch connections fully conform to the chemical and mechanical requirements of the latest edition of ASTM/ASME A105/SA105. Mill test reports are retained at Phoenix Forging Company and are available upon request.

These branch connections are capable of passing a hydrostatic test compatible with the rate of the finished forging. The ends of all buttweld branch connections conform to the latest edition of ASME B16.9. The threads of all threaded branch connections conform to the latest edition of ASME B1.20.1. The socket weld ends of all socket-welding branch connections conform to the latest edition of ASME B16.11.

In addition, we certify that the Phoenix Forging Company branch connections are manufactured and inspected in the United States of America. This certification of compliance conforms to requirements of DIN 50.049 3.1.B. All measuring and test equipment used for acceptance of these products fully conform to specified requirements and have been calibrated in accordance with MIL-STD-45662, ANSI/NCSS Z540-1-1994, and ISO 10012-1.

These products are produced in accordance with the Phoenix Forging Company ISO 9001:2000 Certified Quality System Program. These products are inspected by independent quality control personnel conforming to the requirements of EN 10204 Section 3.1B. 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.