

# SOCKET WELD & WELD- O-LET FITTINGS

THE PHOENIX FORGE GROUP



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

## THE PHOENIX FORGE GROUP

1020 MACARTHUR ROAD, READING, PA 19605-9404  
(610) 374-3117 • FAX: (610) 374-5211  
[www.phoenixforge.com](http://www.phoenixforge.com)

### 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 butt-weld 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/NCSL 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.





# Capitol Forged Steel Fittings

## FORGED STEEL FITTINGS

ASME B16.11 ASME B31.8  
 ASME B31.1 ASME SA105  
 ASME B31.3 ASTM A105  
 ASME B31.4 NACE MR0175  
 ASME B31.5

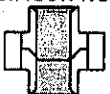

	CLASS/ PRESSURE	SIZE	
		THREADED	SOCKET WELDING
90° ELBOW 	2,000	1/4 - 4"	-
	3,000	1/8 - 4"	1/8 - 4"
	6,000	1/8 - 4"	1/8 - 2"
	9,000	-	1/2 - 2"
45° ELBOW 	2,000	1/4 - 4"	-
	3,000	1/8 - 4"	1/8 - 4"
	6,000	1/8 - 4"	1/8 - 2"
	9,000	-	1/2 - 2"
TEE 	2,000	1/4 - 4"	-
	3,000	1/8 - 4"	1/8 - 4"
	6,000	1/8 - 4"	1/8 - 2"
	9,000	-	1/2 - 2"
CROSS 	2,000	1/4 - 4"	-
	3,000	1/8 - 4"	1/8 - 4"
	6,000	1/8 - 4"	1/8 - 2"
	9,000	-	1/2 - 2"
STREET ELBOW <small>Not covered by B16.11</small> 	3,000	1/8 - 2"	-
	6,000	1/8 - 1 1/2"	-
LATERAL <small>Not covered by B16.11</small> 	3,000	1/2 - 2"	1/2 - 2"
	6,000	3/8 - 1 1/2"	1/2 - 2"
	9,000	-	1/2 - 1 1/2"
COUPLING 	3,000	1/8 - 4"	1/8 - 4"
	6,000	1/8 - 4"	1/8 - 4"
	9,000	-	1/2 - 2"
HALF COUPLING 	3,000	1/8 - 4"	1/8 - 4"
	6,000	1/8 - 4"	1/8 - 4"
	9,000	-	1/2 - 2"
PIPE CAP 	3,000	1/8 - 4"	1/8 - 4"
	6,000	1/8 - 4"	1/8 - 4"
	9,000	-	1/2 - 2"
BUSHINGS 	HEX FLUSH	1/4 - 4"	
PLUGS 	HEX HEAD		
	SQUARE HEAD	1/8 - 4"	
	ROUND HEAD		

MSS SP-79

REDUCER INSERT TYPE 1 	3,000	-	3/8 - 3"
	6,000	-	3/8 - 2 1/2"
REDUCER INSERT TYPE 2 	3,000	-	3/4 - 4"
	6,000	-	3/4 - 2 1/2"

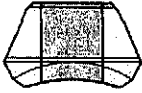


AAR / MSS SP-83\*  
 ASME SA105  
 ASTM A105  
 NACE MRO175

## UNIONS

	PRESSURE	SIZE	
		THREADED	SOCKET WELDING
OCTAGON NUT 	*3,000	1/8 - 3"	1/8 - 3"
	6,000	1/8 - 2 1/2"	1/8 - 2 1/2"
LUG NUT 	*3,000	1/2 - 4"	1/2 - 4"
	6,000	3/8 - 3"	3/8 - 3"
	9,000	-	3/8 - 2 1/2"

MSS SP-97 / ASME B16.9  
 POWER PIPING ASME B31.1  
 REFINING ASME B31.3  
 LIQUID TRANSPORTATION ASME B31.4  
 REFRIGERATION PIPING ASME B31.5  
 GAS TRANSMISSION ASME B31.8  
 ASME SA105 / ASTM A105  
 NACE MRO175

## TRANS-O-CON® BRANCH CONNECTIONS

	SCHEDULE/ PRESSURE	SIZE	
		REDUCING	FULL
B W TRANS-O-CON® 	STANDARD	1/4 - 24"	1/2 - 24"
	XS	1/4 - 24"	1/2 - 24"
	160-XXH	1/2 - 4"	1/2 - 4"
THREADED TRANS-O-CON® 	3,000	1/8 - 4"	1/2 - 4"
	6,000	1/2 - 2"	-
S W TRANS-O-CON® 	3,000	1/8 - 4"	1/2 - 4"
	6,000	1/2 - 2"	-

- Stainless, and other chemistries subject to inquiry.
- Elbow and lateral Trans-O-Cons also available.
- Class 10,000 Threaded Fittings subject to inquiry
- Threading Specification ASME B1.20.1
- Larger sizes subject to inquiry.
- Reducer Couplings available.



## THE PHOENIX FORGE GROUP



**CAPITOL MANUFACTURING**  
 1125 Capitol Road  
 Crowley, LA 70526  
 1-888-744-7326 • 1-800-848-1100  
 (337) 783-8626 • FAX: (337) 783-5360

"ON LINE MTR's & CRN's"

[www.phoenixforge.com](http://www.phoenixforge.com)