

Date: 10/07/2011

Tyler Union Waterworks manufactures and distributes ductile iron water main fittings with accessories. Tyler Union 2 inch through 48 inch fittings are cast with tested and traceable ASTM A536 compliant ductile iron that is designed for use with and conforms to the all the applicable terms and requirements (including markings) of ANSI/AWWA C153/A21.53-06, ANSI/AWWA C151/A21.51, ANSI/AWWA C115/A21.15, ANSI/AWWA C111/A21.11-7, ANSI/AWWA C116/A21.16-09, ANSI/AWWA C110/A21.10-08, and ANSI/AWWA C104/A21.4-08, Tyler Union Waterworks mechanical and push on joint fittings are compatible with PVC pipe conforming to AWWA C900-C905. Current revisions apply for each noted standard.

**\*\*Tyler Union Waterworks ANSI/AWWA C153/A21.53-06 ductile iron Mechanical and Push-On joint fittings "2 inch through 24 inch" shall be rated for 350 PSI working pressure and a surge allowance of 100 PSI. Mechanical and Push-On joint fittings "30 inch through 48 inch" shall be rated for 250 PSI working pressure and a surge allowance of 100 PSI.**

**\*\*Tyler Union Waterworks ANSI/AWWA C110/A21.10-08 ductile iron Mechanical joint fittings in "2 inch through 24 inch" shall be rated for 350 PSI working pressure and a surge allowance of 100 PSI. Mechanical joint fittings "30 inch through 48 inch" shall be rated for 250 PSI working pressure and a surge allowance of 100 PSI.**

**\*\*Tyler Union Waterworks ANSI/AWWA C110/A21.10-08 and ANSI/AWWA C153/A21.53-06 ductile iron Flanged joint fittings in 2 inch through 48 inch shall be rated for 250 PSI working pressure and a surge allowance of 100 PSI. Flange fittings 24 inches (610 millimeters) and smaller may be rated for 350 PSI (2,413 kPa) working pressure with the use of special gaskets. Per Section A.3 of ANSI/AWWA C110/A21.10-08 ductile iron Flange joint fittings are not recommended for underground installation due to the rigid design of the fitting flange and joint.**

**\*\*Note – Exceptions:** Mechanical and Push-On joint fittings with flanged branches are rated for working pressure of 250 PSI. Flange fittings 24 inches and smaller may be rated for 350 PSI working pressure with the use of special flange gaskets. For 350 PSI flange joint applications we recommend the use of annular ring type gasket or comparable.

Tyler Union Waterworks ANSI/AWWA C110/A21.10-08 and ANSI/AWWA C153/A21.53-06 ductile iron Mechanical joint fittings and ANSI/AWWA C153/A21.53-06 (manufacturer's standards) Push-On joint fittings when installed per AWWA C600-10 are rated for a \*maximum 5 degrees of deflection for "3 inch through 12 inch" fittings and a \*maximum 3 degrees of deflection for "14 inch through 48 inch" fittings.

**\*Note:** The total joint deflection is determined by the O.D. of the pipe and the I.D. of the fitting. When both the pipe and the fitting are at nominal; the joint deflection will be approximately 50% of the maximum listed.

When required, Tyler Union Waterworks coated and/or cement lined Potable water ductile iron fittings meet all the applicable terms and requirements of ANSI/AWWA C116/A21.16-09, ANSI/AWWA C104/A21.4-08, and AWWA C550. Potable water products manufactured and distributed by Tyler Union Waterworks are National Sanitation Foundation NSF 61 compliant. Current revisions apply for each noted standard.

Tyler Union Waterworks Valve and Service boxes are produced in accordance with and meet all applicable terms and provisions of ASTM-A48. Cast iron Service and Valve box products when properly selected and installed per the guidelines provided by AWWA M44 (Manual of Water Supply Practices) will provide accessibility for testing and maintenance of a water supply system and will meet the Wheel load designation as provided by the American Association of State Highway Transportation Officials (AASHTO).

Tyler Union Waterworks Mechanical Joint Fittings, Glands, T-Bolts, and Nuts are produced in accordance with and will meet all applicable terms and provisions of ANSI/AWWA C111/A21.11-07. Tyler Union Mechanical and Push-On joint gaskets are produced in accordance with and will meet all applicable terms and provisions of ANSI/AWWA C111/A21.11-07. Tyler Union manufacturer's standard design Mechanical and Push-On joint Transition gaskets are produced in accordance with and will meet all applicable terms and provisions of ANSI/AWWA C111/A21.11-07.

*Roger Dunning*

Roger Dunning  
Technical Support Manager  
Tyler Union Waterworks  
Email: [roger.dunning@tylerunion.com](mailto:roger.dunning@tylerunion.com)  
Tel.: (800) 527-8478

Project Name: \_\_\_\_\_

Project Material: \_\_\_\_\_

Product Supplier: \_\_\_\_\_

Contractor: \_\_\_\_\_

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Subscribed and sworn to before me this 280<sup>th</sup>. Day of 2011

*Dottie Armstrong*

Notary Public – Smith County, Texas



**\*Tyler Union Waterworks Contact Information\***

Tyler: 11910 CR 492 • Tyler, Texas 75706 • (800) 527-8478      Anniston: 1501 W 17<sup>th</sup> St. • Anniston, AL 36201 • (800) 226-7601  
Corona: 1001 El Camino Ave. • Corona, CA 92879 • (866) 527-8471      Portland: 6204 N. Marine Dr. • Portland, OR 97203 • (866) 527-8471

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

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