



## 2018 - Certificate of Compliance • Waterworks Division

Tyler Union Waterworks manufactures and distributes ductile iron water main fittings with accessories. Tyler Union 2 inch through \*64 inch fittings are cast with tested and traceable ASTM A536 compliant ductile iron that is designed for use with and conforms to the applicable terms and requirements (including markings) of ANSI/AWWA C153/A21.53, ANSI/AWWA C151/A21.51, ANSI/AWWA C115/A21.15, ANSI/AWWA C111/A21.11, ANSI/AWWA C116/A21.16, ANSI/AWWA C110/A21.10, and ANSI/AWWA C104/A21.4, Tyler Union Waterworks mechanical and push on joint fittings are compatible with PVC pipe conforming to AWWA C900-C905. Fittings are also approved and listed by UL (Underwriter Laboratories) and FM (Factory Mutual). Current revisions apply for each noted standard. Tyler Union offers a full line of ANSI/AWWA Imported products as well as a full line of Domestic products made in the U.S.A. If you have a product preference, you must specify upon order placement. \*Note: For certification of 54" to 64" fittings, contact your Tyler Union Waterworks representative.

\*Note : Refer to UL website for sizes and configuration. Sizes 3-12 is approved by FM.

\*\*Tyler Union Waterworks ANSI/AWWA C153/A21.53 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 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 and ANSI/AWWA C153/A21.53 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 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. <sup>1</sup>Flange fittings 24 inches and smaller may be rated for 350 PSI working pressure with the use of special flange gaskets. <sup>2</sup>For 350 PSI flange joint applications we recommend the use of annular ring type gasket or comparable. <sup>3</sup>AWWA C153 MJ and Push on joint wyes 14" and larger are not pressure rated; contact Tyler Union for the allowable pressure ratings.

Tyler Union Waterworks ANSI/AWWA C110/A21.10 and ANSI/AWWA C153/A21.53 ductile iron Mechanical joint fittings and ANSI/AWWA C153/A21.53-06 (manufacturer's standards) Push-On joint fittings when installed per AWWA C600/651 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.

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, ANSI/AWWA C104/A21.4, and AWWA C550. Potable water products manufactured and distributed by Tyler Union Waterworks are National Sanitation Foundation NSF 61, NSF-372, and Annex G 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-Head bolts, and Nuts are produced in accordance with and meet all applicable terms and provisions of ANSI/AWWA C111/A21.11. Tyler Union Mechanical and Push-On joint gaskets are produced in accordance with and meet all applicable terms and provisions of ANSI/AWWA C111/A21.11. 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.

All applicable design tests as required by AWWA have been performed and results maintained with all materials supplied being of the same quality, manufacture, and make as those tested.

Sincerely,  
  
Mark Vess  
Technical Sales Support Specialist  
Tyler Union Waterworks  
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Project Name: \_\_\_\_\_  
Project Material: \_\_\_\_\_  
Product Supplier: \_\_\_\_\_  
Contractor: \_\_\_\_\_  
File: COC TU Products

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

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