

Tyler Union Waterworks manufactures and distributes ductile iron water main fittings with accessories. Tyler Union 3" - 48" 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 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, ANSI/AWWA C104/A21.4, and Current revisions apply for each noted standard.

Tyler Union Waterworks TUFGRIP® Mechanical Joint restraints represent the culmination of 20 years engineering and testing. As a third generation restraint, TUFGRIP® is the best available technology in the Waterworks market for use in restraining PVC, Ductile, and HDPE pipe and mechanical joint fittings. TUFGRIP® mechanical joint restraint glands are cast with tested and traceable ASTM A536 compliant 65-45-12 ductile iron. TUFGRIP® and all components are designed, proven and tested for 2:1 safety factor. TUFGRIP® Mechanical Joint wedge type restraints are approved by UL (Underwriters Laboratories), FM (Factory Mutual). TUFGRIP® Series 2000 Restraint for PVC Pipe is tested in accordance with ASTM F1674. TUFGRIP® Series 1500 Restraint is also tested in accordance with ASTM F1674 for related application.

TUFGRIP® glands

- 3" – 48" TUFGRIP® Series 1000 Restraint for Ductile Iron Pipe
- 4" – 12" TUFGRIP® Series 1000 Split Restraint for Ductile Iron Pipe
- 4" – 24" TUFGRIP® Series 1500 Dual Wedge Restraint for PVC*, Ductile, HDPE** Pipe and Steel Pipe.
- 3" – 36" TUFGRIP® Series 2000 Restraint for PVC Pipe*, HDPE** Pipe
- 4" – 12" TUFGRIP® Series 2000 Split Restraint for PVC Pipe*

NOTE: TUFGRIP® restraints, Mechanical Joint Gaskets and T-Bolts with nuts furnished by Tyler Union Waterworks are produced in accordance with and will meet all applicable terms and provisions of ANSI/AWWA C111/A21.11.

***NOTE:** PVC restraint pressure rating as per the pipe rated pressure. PVC pipe types include C-900, C-909, and ASTM D2241 (IPS OD)

****NOTE:** HDPE applications require a separate stiffener ring 4-16 for DI OD Pipe & 4-12 for IPS OD Pipe

NOTE: For each noted standard the applicable and current revisions apply for Tyler Union Waterworks products.

Tyler Union Waterworks 3000 Series Clamps for PVC pipe offer 360° contact with no pipe distortion or point loading. 3000 Series Clamps are rated to the listed pressure on the PVC pipe with a 2:1 safety factor. All sizes of clamps are made of high strength grade 65-45-12 ductile iron in accordance with the requirements and specifications of ASTM A536. Restrainers approved per applicable requirements of ASTM F1674, current revisions apply.

3000 Series Clamps...

- 4" – 36" 3000PP Pipe to Pipe Clamp for PVC pipe
- 4" – 36" 3000MJ Pipe to MJ fitting Clamp for PVC Pipe
- 4" – 12" 3000PO Pipe to Push-on fitting for PVC pipe
- 4" – 16" 3000PS Pipe Stop for PVC pipe

NOTE: Connecting rods, hex nuts, T-head bolts consist of low alloy high strength steel and comply with applicable requirements of ANSI/AWWA C111/A21.11

NOTE: Clamping bolts are SAE Grade 5 and comply with applicable requirements of ANSI/AWWA C111/A21.11

NOTE: For easy identification, IPS pipe diameter clamps are GREY and DI pipe diameter clamps are BLACK

Tyler Union Waterworks SURE STOP 350® Gaskets are an easy way to restrain UNION TITE®, TYTON®, TRIM TYTON®, or TYTON Joint® fittings and valves. SURE STOP 350® Gaskets are produced and tested in accordance with ANSI/AWWA C111/A21.11. SURE STOP 350® Gaskets are NSF-61 approved and listed by Underwriter Laboratories (UL) and Factory Mutual.

- 3" – 24" SURE STOP 350®

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 Restraint TU Products

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This document is void if modified in any manner other than the addition of project information