



# TX3<sup>®</sup>

## *Extended Range Transition Coupling*

**T**-hree Classes of Pipe, Minimum  
**X**-tra Range (Maximum Pipe Coverage)  
**3**-Stage Coating



**Sizes 2"-12" Diameters**

**Wide Range Designed to Fit All Pipe Transitions  
Fewer Sizes, Less Inventory = More with Less**



**Total Piping Solutions, Inc.**

# TX3<sup>®</sup> Extended Range Transition Coupling

## Save on Installation Time, Labor, Inventory

- For Water, Waste Water, and Liquid Hydrocarbon Applications, above and below ground
- Fewer Sizes means less inventory
- Range Adjustable Gasket Joins Pipe with Diameter Differences of up to 1.30 inches
- Superior Pressure Assisted Sealing Capabilities with easy to remove and replaceable inner gasket layer
- Easy Fitting - two bolts total, one per end with standard 1-1/16" waterworks nut size on most sizes
- Integrated Easy Lift Handle allows the light weight body to be handled by one person
- High Deflection- up to 4 degrees per end
- Stab type installation (no disassembly required), Tighten from the Top and Eliminate Under-dig.
- Standard long body to allow for more pipe end gap
- Meets and Exceeds "AWWA C219 Standards"
- Up To 275 PSIG Working Pressure
- Always refer to the product label for actual pressure rating of the coupling
- ANSI/NSF 61 approved
- Tri-Clad Multi Layer Epoxy Coating for Superior Corrosion Resistance Meets AWWA C213



## Tri-Clad<sup>®</sup> Coating by TPS = Extended Product Life



- Exceeds ANSI/NSF 61
- 12-15 mil Fusion Bonded Epoxy Top Coat
- Meets ANSI/AWWA C213
- Meets NACE Specifications (National Association of Corrosion Engineers)

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## Specifications

**Body and End Ring Materials:** Middle Ring - Carbon Steel (ASTM A53 Grade A or A795 Carbon Steel) and End Ring - ASTM A283 Grade D

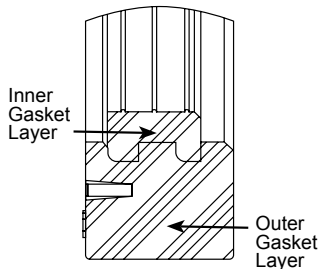
**Gasket Bridge-Plate Material:** ASTM A240 Type 304 Stainless Steel

Coating: Proprietary four stage NSF-61 Registered Fusion-bonded Epoxy Coating.

**Bolts, Nuts, Spacers, Washers:** (ASTM A193 Grade B, 18-8 Type 304) Stainless Steel with Fluoro-Carbon Coating on nuts, bolts, and washers provides positive anti-seize compound on all threads to prevent galling.

Nuts work with conventional water works standard 1-1/16" wrenches. (2, 3, 4" sizes use a 3/4" wrench).

**Gasketing System:** The Patent Pending dual layer adjustable and fully replaceable inner gasket system is compounded of high grade NBR (Nitrile) and is rated for potable water, wastewater, sewer line content and liquid hydrocarbons. The TX3 Coupling meets NSF-61 and NSF-372 standards for contact with drinking water.



**The 2-layered gasketing system provides a built-in wide range.**

1. Low range is provided by the inner layer
2. High range is provided by removal of inner layer
3. Each layer provides up to 4 degrees of deflection per end and working pressures to 275 psi



Use your thumb or other device to remove inner gasket layer.

KEY FEATURES	BENEFIT
Removable/Replaceable Inner Gasket Layer	Allows coupling to be sized to the pipe in the field
Light Weight Construction	Fast and Easy to handle and install
Integrated Easy-Lift <sup>®</sup> Handle	Allows installer to Easily Position the coupling during installation
Two Piece End Ring Design	End Ring can be disassembled for gasket replacement if needed
Stab - Fit Coupling Design	No disassembly required before installation
NSF-61-Compounded NBR Gasket	Good For Water, Sewerage, Hydrocarbon
Proprietary Tri-Clad <sup>®</sup> Multi-Layered Coating System	Thirteen Step Coating with three layers of protection
4° Deflection Per End	Easy connection even with misaligned pipe ends
Meet and Exceeds Applicable Sections of AWWA C219	Coupling complies with most widely recognized industry standard for the water and sewer industries
Premium Stainless Steel Fasteners and Armoring	Provides long life positive gasket seating during tightening and installation

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Nominal Diameter	Overall Range	LOW RANGE Before Removal of the Inner Gasket Layer	Low Range Pipe Covered	HIGH RANGE After Removal of the Inner Gasket Layer	High Range Pipe Covered
2"	2.10 - 3.03"	2.10 - 2.60"	2"CTS, 2"IPS	2.56 - 3.03"	2.5"CTS, 2.5"IPS, 2.5"DR21
3"	3.10 - 4.20"	3.10 - 3.56"	3"CTS, 3"IPS	3.70 - 4.20"	3"PIT CAST, 3" AC/100,150,200, 4"CTS
4"	4.45 - 5.61"	4.45 - 5.06"	4"IPS, 4"DIP, 4"PIT CAST,4" AC/100,150	4.94 - 5.61"	4"AC/200, 4" CLAY
6"	6.55 - 7.65"	6.55 - 7.05"	6"IPS, 6"DIP	7.04 - 7.65"	6"AC/100,150,200, 6"CLAY
8"	8.54 - 9.84"	8.54 - 9.15"	8"IPS, 8"DIP	9.15 - 9.84"	8"AC/100,150,200, 8"CLAY
10" Undersize	10.64 - 11.84"	10.64 - 11.18"	10"IPS, 10"DIP	11.18 - 11.84"	10"AC/100
10" Oversize	11.01 - 12.26"	11.01 - 11.63"	10"DIP, 10"AC/100/150	11.59 - 12.26"	10"AC/200, 10"CLAY
12" Undersize	12.62 - 13.66"	12.62 - 13.06"	12"IPS	13.10 - 13.66"	12"DIP, 12"PIT CAST
12" Oversize	13.14 - 14.45"	13.14 - 13.78"	12"DIP	13.74 - 14.45"	12"AC/100, 150, 200, 12" CLAY

**NOTE:** Use on Polyethylene is for below ground service only on DR 17 or thicker pipe wall.

For Specific Information Regarding dimensions, special applications, and installation procedures, contact Total Piping Solutions, Inc. To Extend Product Life in Corrosive Environments, poly-wrapping or cathodic protection of the product is recommended.

TX3<sup>®</sup> is a patent pending and Trademarked Product of Total Piping Solutions, Inc.



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**Total Piping Solutions, Inc.**

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**WARNING** This is a non-restraining product. If pipe pullout can occur, proper anchoring of the pipe joint is required. Failure to anchor the pipe could result in the escape of line content, and may cause property damage, serious injury or death.

**WARNING** This product is not intended for use on natural gas piping or any other type of gas piping. To do so could result in escaping gas that could ignite and cause property damage, serious injury or death.

**WARNING** This product is intended for use on HDPE SDR-17 or greater wall thicknesses, and shall be used for buried service only. The TPS TX3 Coupling product line is not approved for above ground applications on HDPE.