



# TPS TX3<sup>®</sup> Coupling

Installation Instructions for TX3<sup>®</sup> Couplings  
1-1/2 to 12 inch Couplings  
Do Not Disassemble this Product  
Do not lubricate the bolts



**Please read these installation instructions carefully.**


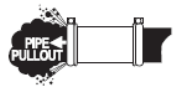
This coupling is designed for a stab fit. Disassembly is not required.


- 1. Measure the diameter of the pipe** and verify the size of the coupling for correct fit.
- 2. Clean approximately one foot from each pipe end** and remove all scale and dirt from the pipe surface. Confirm that the pipe is structurally sound, round, free from gouges, dents, corrosion etc. where the gasket will contact the pipe. **Place a mark on both pipe ends 3 inches in from each end** for use in centering the coupling.
- 3. All pipe surfaces and gaskets must be lubricated.** For rough surface pipe, use an NSF 61 approved pipe joint lubricant. For smooth wall pipe, such as PVC and HDPE, use soapy water.
- 4. Inspect the coupling and end rings** for shipping damage. Verify that there are no missing parts.
- 5. Sizing the gasket.** The TX3<sup>®</sup> is a wide range stab fit coupling with a two-layer hydraulic assist gasket. Do not tear out the inner gasket layer unless the measured pipe diameter falls within the upper range of the coupling as shown on the product label. If the inner layer of the gasket must be removed for proper fit to the pipe, then gently pry the inner gasket away from the outer gasket using a screwdriver or a blunt tipped instrument. Under no circumstances should the inner layer of the gasket be removed unless the pipe diameter is verified to fall in the high (upper) range of the coupling as shown on the product label.
- 6. Replacing the inner gasket.** The inner gasket may be replaced if it has been removed from the coupling gasket assembly. Confirm that the two orange dots and the labels "OUTSIDE" are facing outward, then align the inner ring outer ribs with the mating grooves in the outer gasket ring and reassemble. Note that the coupling end ring drawbolts must be in their original position (nuts untightened).
- 7. Slide the coupling over the pipe ends** with the drawbolts positioned on top. If necessary, loosen the drawbolt nuts slightly (one or two turns) to allow installation on maximum diameter pipe.
- 8. Center coupling over both pipe ends.** Do not exceed recommended pipe gap between pipe ends. Both pipe ends must stab at least ½ inch beyond the inside edge of the gasket. Use the pipe marks from Step 2 for centering. Do not exceed 4 degrees deflection per coupling end.
- 9. Tighten the end ring drawbolts using the appropriate sized socket wrench** (3/4 inch socket for 1-1/2 through 3 inch and 1-1/16 inch socket for 4 inch through 12 inch). Tighten the drawbolts evenly on each coupling end to the torque indicated on the product label. **Use of a torque wrench is mandatory.** The torque wrench will verify the proper torque has been achieved. **Note: Refer to Product Label for Torque Requirements. Do not lubricate the drawbolts and nuts.** The drawbolts and nuts are pre-lubricated with a dry lubricant coating.
- 10. Recharge the line and check for leaks.** Backfill only when the coupling is verified to be leak free.

## THE TX3® IS A NON-RESTRAINING COUPLING!

External forces due to ground movement and thrust forces due to line pressure may cause axial pipe movement and separation of the pipe ends on unrestrained piping. This can cause the pipe to pull out of the coupling unless the piping is sufficiently restrained from movement.

 <b>WARNING</b>	<b>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.</b>
 <b>NO!</b>	

 <b>WARNING</b>	<b>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.</b>
	

 <b>WARNING</b>	<b>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.</b>
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### WARNING!

Metal products are subject to corrosion, particularly when used outdoors, and/or underground. Many factors and local conditions influence the rate of corrosion. Consult with a local corrosion expert to determine the life expectancy of this product when used with your pipeline content and soil environment. Consult with your systems designer to determine the suitability of this product in your piping system. Failure to determine the suitability of this product in your application, soil, or operating environment can result in premature product failure. TPS will provide additional information about this product's material specifications at your request. You may also obtain product information at [www.dresserutility.com/water](http://www.dresserutility.com/water).