

**Dresser Water, LLC.**  
***ULTRA-Sleeve***<sup>®</sup>  
**Wide Range Bell Joint Repair**  
Patented  
**Technical Specifications**

REV P 011824

# **ULTRA-Sleeve® Wide Range Bell Joint Repair Specifications**

**Patented**

1. Pressure Rating: ULTRA-SLEEVE® Bell Joint Repair Sleeves by Total Piping Solutions, Inc. when properly installed are capable of working pressures as shown on the chart below, for water and sewer applications.

Nominal Size	Range	Working Pressure	
		IPS Diameters	DI, PIT CAST, AC Diameters
2"	2.35-3.13	200	200
4"	4.45-5.61	200	200
6"	6.55-7.65	200	200
8"	8.54-9.84	200	200
10"	10.64-11.46	175	200
10" OS	11.34-12.16	175	200
12"	12.62-13.56	175	200
12" OS	13.42-14.45	175	200
16"	17.32-17.45	-	150
16" OS	17.72-17.85	-	150
20"	21.52-21.65		150
20" OS	21.98-22.11		150
24"	25.72-25.85	-	150
24" OS	26.24-26.40	-	150
30"	31.94-32.08		150

\*Larger Sizes are available upon request

ULTRA-Sleeve® Bell joint Repair Sleeves are tested up to 300 psi for (1.5 Safety Factor)

Note: Pressure rating shall not exceed the pressure rating of the pipe on which the sleeve is installed. For any particular installation, the allowable working pressure will be determined by the size of pipe, type of pipe, condition of the pipe, service conditions, environmental conditions, and installation workmanship. Consult the factory for specific information regarding application and working pressure.

2. Temperature Rating: Maximum Continuous Working Temperature Range is 75° F for Standard NSF-61 compliant NBR Gasket
3. Sealing Gaskets: 2" – 12": ANSI/NSF - 61 Approved NBR Rubber  
16"-30" : ANSI/NSF – 61 Approved EPDM Rubber
4. Body/Shell: ASTM A-536 Cast Ductile Iron  
ASTM A -36 Mild Carbon Steel Plate

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**5. Applications:**

The Ultra-Sleeve® is ideal for the repair of a split bell or leaking joint. This sleeve eliminates the need to shut down the water main. The sleeve is relatively light weight and has easy to install gaskets.

One sleeve covers CIP/DIP/ PVC Bells, most couplings and asbestos cement pipe collars/couplings.

Can be used as a coupling to joint pipe ends of same pipe OD's in buried applications.

The Ultra-Sleeve® is designed to work on a wide range of pipe materials including ductile iron, steel, pit cast, cast iron, asbestos cement, PVC, and HDPE.

**Note: For HDPE Applications product must be used for Below Ground Installations only.**

**ULTRA-Sleeve® Bell Joint Repair Table of Pipeline Diameters**

Nominal Size	Range		
	Overall	Lower	Upper
2"	2.35-3.13	2.35-2.78	2.78-3.13
4"	4.45-5.61	4.45-5.10	5.12-5.61
6"	6.55-7.65	6.55-7.15	7.15-7.65
8"	8.54-9.84	8.54-9.22	9.25-9.84
10"	10.64-11.46	10.64-11.15	11.15-11.46
10" OS	11.34-12.16	11.34-11.71	11.71-12.16
12"	12.62-13.56	12.62-13.26	13.15-13.56
12" OS	13.42-14.45	13.42-13.92	14.00-14.45
16"	17.32-17.45	-	17.32-17.45
16" OS	17.72-17.85	-	17.72-17.85
20"	21.52-21.65	-	21.52-21.65
20" OS	21.98-22.11	-	21.98-22.11
24"	25.72-25.85	-	25.72-25.85
24" OS	26.24-26.40	-	26.24-26.40
30"	31.94-32.08	-	31.94-32.08

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## Applicable Standards:

**ANSI/AWWA C110:** Ductile-Iron and Gray Iron Fittings

**ANSI/AWWA C111:** Rubber Gasket Joints for Ductile-Iron Pressure Pipe and Fittings

**NSF/ANSI STANDARD 61** - Drinking Water System Components

**NSF/ANSI STANDARD 372** - Drinking Water System Components

**ASTM D2000 - 12** Standard Classification System for Rubber Products.



**ASTM A-36** Standard Specification for Carbon Structural Steel (For Fabricated Units)


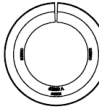
**ASTM A-536** Standard Specification for Ductile Iron Castings (For Cast Units)

**NSF/ANSI STANDARD 61** - Drinking Water System Components

**ANSI/ASME B1.20.1** – Pipe threads, General Purpose, Inch

## Product Warnings

 <b>WARNING</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>WARNING</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>WARNING</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 Triple Tap product line is not approved for above ground applications on HDPE or other plastic pipe

<b>ATTENTION</b> CONTAINS GASKET WITH REMOVABLE INNER LAYER
 INNER LAYER IN FOR LOWER RANGE
 INNER LAYER OUT FOR UPPER RANGE
SEE PRODUCT LABEL FOR RANGES

<b>WARNING</b> NOT A RESTRAINING FITTING
END GASKETS MUST MATCH
BOTH MUST HAVE INNER LAYER IN OR BOTH MUST HAVE INNER LAYER OUT
DO NOT REINSTALL INNER LAYER IF IT GETS REMOVED. CONTACT TPS FOR REPLACEMENT GASKET(S)

<b>WARNING</b> NOTE FOR USE ON NATURAL GAS OR OTHER GAS LINES
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<b>BELOW GROUND USE ONLY ON HDPE LINES</b>
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## **Sleeve Reuse:**

**Sleeves shall not be re-used until refurbished with new bolts and new gaskets at TPS.**

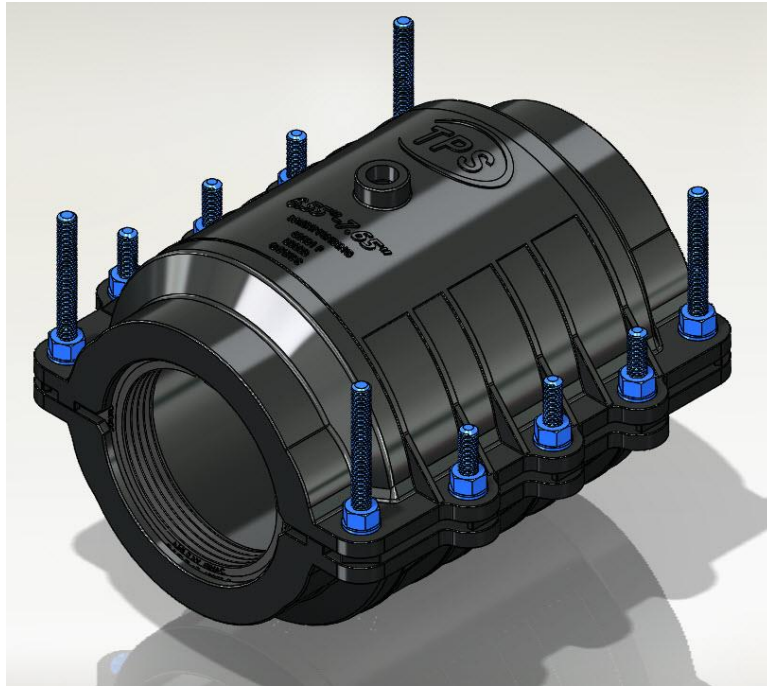
## **APPLICATION NOTE:**

**ULTRA-Sleeves may be provided to meet custom application needs.**

**Contact TPS for custom application needs.**

**INDIVIDUAL PRODUCT LABELING WILL SPECIFY PRODUCT CAPABILITY.**

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**Materials of Construction**

<b>Body/Shell:</b>	ASTM A-536 Gr 65-45-12 ASTM A-36
<b>Coating:</b>	MIN 10 mil thick NSF-61 Approved Fusion Bonded Epoxy Coating
<b>Sealing Gaskets:</b>	Nitrile Butadiene Rubber (NBR) Approved ANSI/NSF-61 (4"-12" Sizes) EPDM rubber Approved ANSI/NSF – 61 (16"-24" Sizes)
<b>Bolts:</b>	Oval Neck track head per ANSI/ASME B18.10 18-8 Type 304 Stainless Steel per ASTM A-193 Grade B8 Finish: Fluoroelastomer coating.
<b>Nuts:</b>	Type 304 High Temp Stainless Steel per ASTM A-194 Grade 8 Finish: Fluoroelastomer coating to prevent galling.
<b>Washers:</b>	Material 18-8 Type 304 Stainless Steel Fluoroelastomer coating to prevent galling

**Application Note:**

**For bolt torque requirement, temperature rating, and pressure rating,  
always refer to product label and installation instructions.**