TRIPLE TAP® Extended Range Stainless Steel MJ Tapping Sleeve Specifications

1. **Pressure Rating:**
   The pressure rating of a tapping sleeve assembly is limited by the pressure rating of the flange assembled to the tapping sleeve and/or the pressure rating of the pipe on which the tapping sleeve is installed. Hence, there are different pressure ratings depending upon the installation conditions. Below is a guide for the maximum pressure rating based on flange type and installation conditions.

   *4” to 16” Diameter with AWWA C111 Mechanical Joint Mating Flange* - 200 PSI Maximum Working Pressure, 300 PSI Test Pressure for full circumferential seal. Provides 1.5x safety factor

2. **Temperature Rating:**
   Maximum Continuous Working Temperature Range is 150 Degrees F. Please contact factory if higher temperature service is required.

3. **Gasket:**
   NSF-61 Approved NBR Rubber – For water service

4. **Shell:**
   18-8 Stainless Steel, Passivated for Corrosion Protection.
   - 4 to 8 inch diameters - 12 gage thickness
   - 10 to 12 inch diameters – 11 gage thickness
   - 14 to 16 inch diameters – 10 gage thickness

5. **Conductor Pipe:**
   TPS Triple Tap® Stainless Steel Tapping Sleeves are designed to be a universal product for use with Steel, Cast Iron, Ductile Iron, PVC, High Density Polyethylene, Asbestos Cement, and copper main conductor pipe materials.

6. **Sealing Compatibility:**
   TPS Triple Tap® Stainless Tapping Sleeves are designed to seal on the pipe branch and accommodate a pipeline full beam break. (See applicable pressure ratings in specification settings.)

7. **Pipeline Full Beam Break Conditions:**
   TPS Stainless Tapping Sleeves are designed to accommodate a pipeline full break occurring typically in ductile or cast iron pipe at the point where the maximum material has been circumferentially removed from the drilled hole (using ½” undersize cutter) in size-on-size line taps.

TOTAL PIPING SOLUTIONS, Inc.
1760 Haskell Road
P. O. Box 525
Olean, NY 14760
(716)372-0160
TRIPLE TAP® Extended Range Stainless Steel MJ Tapping Sleeve Benefits

1. Accommodates a maximum of 0.9 inch of diameter range.

2. No special tools required to install the sleeve.

3. Seals on the branch aperture and seals 360° around the pipe in case of a beam break. (See appropriate pressure ratings in specification section)

4. Branch outlet configured with Mechanical Joint branch tube, gasket, and flange sized per ANSI/AWWA C111/A21.11 Standard

5. Design sealing features are similar to cast ductile iron sleeves.

6. 3/4” NPT test outlet to allow hydrostatic pressure test before tapping the pipe.

7. Larger diameter tapping sleeves incorporate shell tightening assembly per US Patent No. 8,857,858.

8. Fluoropolymer coated Stainless Steel fasteners for torque and tension control.

9. Nitrile Butadiene Rubber (NBR) gaskets comply with NSF-61 specifications

10. Note: See Materials of Construction diagram for additional information
## Triple Tap® Extended Range Stainless Steel Tapping Sleeve

### Table of Pipeline Diameters

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Lower Diameter</th>
<th>Upper Diameter</th>
<th>Branch Sizes</th>
<th>CTS</th>
<th>IPS</th>
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## Applicable Standards:

- **ASTM A380-06** Standard Practice for Cleaning Descaling and Passivation of Stainless Steel Parts Equipment and Systems
- **ASTM A967-05** Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts.
- **ANSI/AWWA C223-07** Fabricated Steel and Stainless Steel Tapping Sleeves
- **NSF/ANSI STANDARD 61** - Drinking Water System Components
- **ASTM D2000 - 12** Standard Classification System for Rubber Products...
- **MSS SP-113-2012** Connecting Joints between Tapping Machines and Tapping Valves
- **MSS SP-124-2012** Fabricated Tapping Sleeves
- **ASTM D 2241 – 04a** Standard Specification for Poly Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)
- **ANSI/AWWA C900-07** Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings 4 In. Through 12 In. for Water Transmission and Distribution
- **ANSI/AWWA C906-07** Polyethylene (PE) Pressure Pipe and Fittings, 4 In. Through 63 In. for Water Transmission and Distribution
- **ANSI/AWWA C110/A21.10-08** Ductile Iron and Gray-iron Fittings
- **ANSI/AWWA C111/A21.11-07** Rubber Gasketed Joints for Ductile Iron Pressure Pipe and Fittings
This product is proudly made in the USA.

Product Warnings:

Tapping Sleeve Reuse:

Due to spanner forming (creasing) and other permanent set deformations incurred in installation, tapping sleeves must not be reused until refurbished with new bolts and new gaskets at TPS.
Flange: Type 304 Stainless Steel 18-8

Branch Tube: 18-8 Stainless Steel Schedule 5 or Schedule 10 wall thickness

Upper Shell: 10, 11 or 12 Gage 18-8 Stainless Steel depending on diameter

Lower Shell: 10, 11 or 12 Gage 18-8 Stainless Steel depending on diameter

Upper Gasket Patent pending one piece matte gasket with integrated aperture seal and circumferential seal beads for a 360 degree seal.

Lower Gasket Matte gasket with matching circumferential seal beads for a 360 degree seal.

Alignment Lugs: 18-8 Stainless Steel

Gaskets: Material: Nitrile Butadiene Rubber (NBR) Approved NSF-61,

Spanners: 18-8 Stainless Steel bridging spanner integrally molded into gasket,

Test Port: 18-8 Stainless Steel ¾ Inch NPT Female Vent Port with 18-8 Stainless Steel Pipe Plug
**Triple Tap® Extended Range Stainless Steel Tapping Sleeve Specifications**

**Bolts:** Oval Neck Track head per ANSI/ASME B18.10
5/8-11 UNC Rolled Thread
18-8 Type 304 Stainless Steel per ASTM A-193 Grade B8
Finish: Double Fluoropolymer coating. Bolts installable in either direction.

**Nuts:** Heavy Hex Nut 5/8-11 UNC Rolled Thread
Type 316 High Temp Stainless Steel per ASTM A-194 Grade 8
Finish: Double Fluoropolymer coating to prevent galling.

**Washers:** Heavy Duty 5/8 Inch Washer
Material 18-8 Type 304 Stainless Steel
Double Fluoropolymer coating to prevent galling

**Test Port:** ¾ Inch Welded 18-8 Stainless Steel Test Port with ¾ Inch IPS Pipe Plug Installed

**TOTAL PIPING SOLUTIONS, Inc.**
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Features:

Hinge geometry provides extra opening/spreading range

Butt Weld 100% Penetration for Fatigue Resistance

Opposing seal beads in upper and lower gaskets provide secure sealing against full break pipe. Shell, Aperture Seal and Seal Bead Geometry are Patent Pending.

Specially contoured seal beads and molded aperture seal provide for extended range capabilities. Patent applied for.

Note: Fasteners may be installed in either direction.