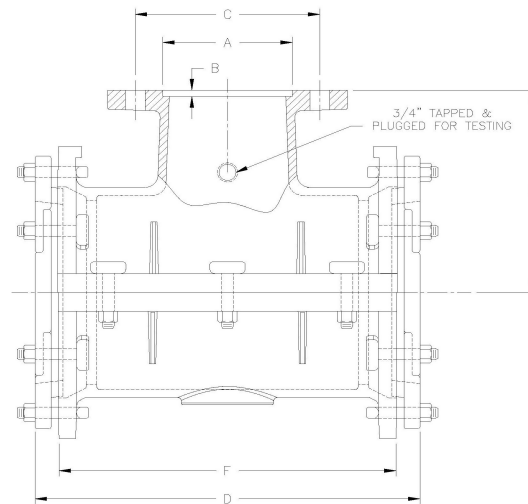




## SUBMITTAL: Mechanical Joint Tapping Sleeve

(Current revisions for the noted Standards apply)

- SIZES:** For 6" through 12" PVC/Ductile pipe per ANSI/AWWA C900 or C151 & Cast iron pipe as provided. Comes with 4"-12" side flanged outlet & 3/4" tap on the branch.
- STANDARDS:** Mechanical and \*Flanged joints comply with applicable requirements of ANSI/AWWA C153/21.53 and ASME/ANSI B16.1. Ductile iron Mechanical Joint Tapping Sleeves are produced in accordance with Tyler Union manufacturer's standard.
- Note:** Recess dimensions are per Manufacturer's standardization Society standard practice SP-60. Meets the requirements of MSS SP-111
- MATERIAL:** Cast of ASTM A536 qualified ductile iron. Date code is cast on and required for traceability.
- PRESSURE RATING:** Rated at 250 psi.
- DEFLECTION:** Deflection is not recommended
- GASKETS:** SBR Mechanical Joint and Split gaskets are per ASTM D2000 – AA and ANSI/AWWA C111/21.11, armor tipped with coiled brass wire spring.
- NSF-61 & NSF372:** Meets all requirements including Annex G, Tyler Union's Underwriters Laboratory listing MH16439.
- ASPHALT COATING:** Per ANSI/AWWA C104/A21.4 and ANSI/AWWA C153/A21.53.
- CEMENT LINING:** Tapping Sleeves are unlined to ensure they fit over the pipe being tapped.
- FLANGE:** ASME/ANSI B16.1, Class 125
- FASTENERS:** High strength low alloy weathering steel per ANSI/AWWA C111/A21.11 and ASTM A242
- INSTALLATION:** Install per Tyler Union instructions below.

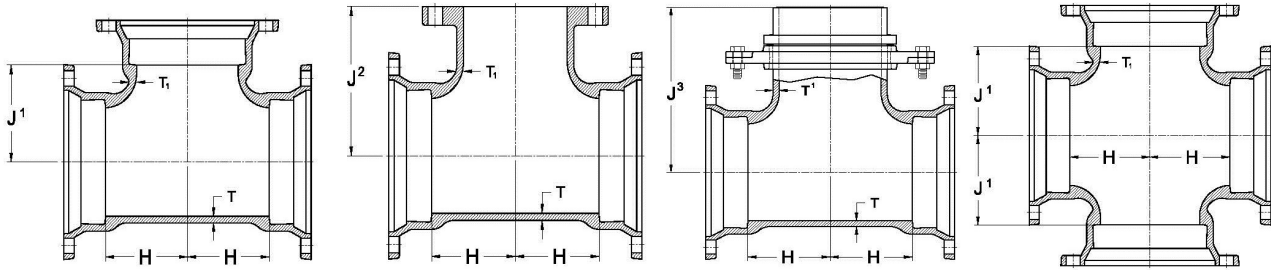


**NOMINAL JOINT DIMENSIONS IN INCHES**

| Size  | A      | B     | C     | D     | E     | F     | Pipe OD Range | DI  |
|-------|--------|-------|-------|-------|-------|-------|---------------|-----|
| 6x4   | 5.016  | 0.250 | 7.50  | 15.75 | 8.00  | 12.75 | 6.85 - 7.15   | 104 |
| 6     | 7.016  | 0.312 | 9.50  | 15.75 | 8.00  | 12.75 | 6.85 - 7.15   | 108 |
| 8x4   | 5.016  | 0.250 | 7.50  | 16.50 | 9.00  | 13.38 | 9.00-9.35     | 134 |
| 8x6   | 7.016  | 0.312 | 9.50  | 16.50 | 9.00  | 13.38 | 9.00-9.35     | 140 |
| 8     | 9.016  | 0.312 | 11.75 | 16.50 | 9.00  | 13.38 | 9.00-9.35     | 148 |
| 10x4  | 5.016  | 0.250 | 7.50  | 24.00 | 11.00 | 20.75 | 11.04-11.45   | 236 |
| 10x6  | 7.016  | 0.312 | 9.50  | 24.00 | 11.00 | 20.75 | 11.04-11.45   | 240 |
| 10x8  | 9.016  | 0.312 | 11.75 | 24.00 | 11.00 | 20.75 | 11.04-11.45   | 246 |
| 10    | 11.016 | 0.312 | 14.25 | 24.00 | 11.00 | 20.75 | 11.04-11.45   | 257 |
| 12x4  | 5.016  | 0.250 | 7.50  | 26.50 | 12.00 | 23.25 | 13.14-13.56   | 273 |
| 12x6  | 7.016  | 0.312 | 9.50  | 26.50 | 12.00 | 23.25 | 13.14-13.56   | 286 |
| 12x8  | 9.016  | 0.312 | 11.75 | 26.50 | 12.00 | 23.25 | 13.14-13.56   | 292 |
| 12x10 | 11.016 | 0.312 | 14.25 | 26.50 | 12.00 | 23.25 | 13.14-13.56   | 303 |
| 12    | 13.016 | 0.312 | 17.00 | 26.50 | 12.00 | 23.25 | 13.14-13.56   | 320 |

- Clean pipe, insert side gasket into back half of gasket grooves. Make sure ends are flush with or slightly protrude into the end gasket seating area.
- Bolt sleeve halves together and trim side gaskets as necessary. **MAKE SURE SLEEVE WILL ROTATE FREELY ON PIPE.**
- Install end gaskets, locating cut ends 90° from side gasket. If pipe is maximum OD, stretch gasket to make certain cut ends match with no gap in between.
- Install glands and bolts-rotate sleeve to desired position. Be sure pipe is centered inside the sleeve.
- Tighten gland bolts alternately, using 80 to 90 foot pounds.
- After assembly, **PRESSURE TEST ALL JOINTS BEFORE TAPPING.** If additional tightening is required, release pressure and relax tension on gland bolts before tightening side bolts.

## C153 DUCTILE IRON COMPACT FITTINGS



| MJ Tee   |      |      |       |       |       |       | MJxFE Tee |         |         |       | MJxSwivel Tee |      |       |       | Cross  |       |  |  |
|----------|------|------|-------|-------|-------|-------|-----------|---------|---------|-------|---------------|------|-------|-------|--------|-------|--|--|
| Domestic |      |      |       |       |       |       | Weight    |         |         |       | Import        |      |       |       | Weight |       |  |  |
| Size     | T    | T1   | H     | J1    | J2    | J3    | MJ        | MJ x FE | †MJ x S | Cross | T             | T1   | H     | J1    | MJ     | Cross |  |  |
| 3        | 0.34 | 0.34 | 3.50  | 3.50  | 5.50  | —     | 26        | 29      | —       | 31    | 0.33          | 0.33 | 3.00  | 3.00  | 28     | 35    |  |  |
| 4x3      | 0.35 | 0.34 | 3.50  | 4.00  | 6.50  | —     | 35        | 34      | —       | 39    | 0.34          | 0.33 | 3.50  | 4.00  | 30     | 34    |  |  |
| 4        | 0.35 | 0.35 | 4.00  | 4.00  | 6.50  | —     | 37        | 39      | —       | 45    | 0.34          | 0.34 | 4.00  | 4.00  | 32     | 40    |  |  |
| 6x3      | 0.37 | 0.34 | 4.00  | 4.00  | 6.50  | —     | 51        | 54      | —       | —     | 0.36          | 0.33 | 3.50  | 5.00  | 42     | —     |  |  |
| 6x4      | 0.37 | 0.35 | 5.00  | 6.00  | 8.00  | —     | 52        | 57      | —       | 62    | 0.36          | 0.34 | 4.00  | 5.00  | 46     | 57    |  |  |
| 6        | 0.37 | 0.37 | 6.00  | 6.00  | 8.00  | 10.50 | 62        | 69      | 61      | 72    | 0.36          | 0.36 | 5.00  | 5.00  | 56     | 75    |  |  |
| 8x3      | 0.39 | 0.34 | 4.00  | 6.50  | 9.00  | —     | 56        | —       | —       | —     | —             | —    | —     | —     | —      | —     |  |  |
| 8x4      | 0.39 | 0.35 | 5.00  | 6.50  | 9.00  | —     | 68        | 82      | —       | 84    | 0.38          | 0.34 | 4.00  | 6.50  | 60     | 68    |  |  |
| 8x6      | 0.39 | 0.37 | 5.50  | 6.50  | 9.00  | 11.50 | 79        | 87      | 105     | 98    | 0.38          | 0.36 | 5.00  | 6.50  | 72     | 74    |  |  |
| 8        | 0.39 | 0.39 | 6.50  | 6.50  | 9.00  | 11.50 | 89        | 101     | 116     | 112   | 0.38          | 0.38 | 0.38  | 6.50  | 86     | 105   |  |  |
| 10x3     | 0.41 | 0.34 | 4.00  | 7.50  | 11.00 | —     | 80        | —       | —       | —     | —             | —    | —     | —     | —      | —     |  |  |
| 10x4     | 0.41 | 0.35 | 4.50  | 7.50  | 11.00 | —     | 82        | 92      | —       | 98    | 0.40          | 0.34 | 4.00  | 7.50  | 78     | 112   |  |  |
| 10x6     | 0.41 | 0.37 | 5.50  | 7.50  | 11.00 | 13.00 | 99        | 116     | 114     | 121   | 0.40          | 0.36 | 5.00  | 7.50  | 90     | 119   |  |  |
| 10x8     | 0.41 | 0.39 | 6.50  | 7.50  | 11.00 | 13.00 | 116       | 128     | 138     | 135   | 0.40          | 0.38 | 6.50  | 7.50  | 105    | 124   |  |  |
| 10       | 0.41 | 0.41 | 7.50  | 7.50  | 11.00 | —     | 132       | 144     | —       | 156   | 0.40          | 0.40 | 7.50  | 7.50  | 120    | 145   |  |  |
| 12x3     | 0.43 | 0.34 | 4.00  | 8.75  | 12.00 | —     | 99        | —       | —       | —     | —             | —    | —     | —     | —      | —     |  |  |
| 12x4     | 0.43 | 0.35 | 4.00  | 9.00  | 12.00 | —     | 108       | 118     | —       | 119   | 0.42          | 0.34 | 4.00  | 8.75  | 94     | 119   |  |  |
| 12x6     | 0.43 | 0.37 | 5.00  | 9.00  | 12.00 | 14.25 | 119       | 133     | 132     | 138   | 0.42          | 0.34 | 4.00  | 8.75  | 110    | 126   |  |  |
| 12x8     | 0.43 | 0.39 | 6.50  | 9.00  | 12.00 | 14.25 | 126       | 146     | 149     | 149   | 0.42          | 0.38 | 6.50  | 8.75  | 125    | 149   |  |  |
| 12x10    | 0.43 | 0.41 | 7.50  | 8.75  | 12.00 | —     | 159       | 174     | —       | 187   | 0.42          | 0.40 | 7.50  | 8.75  | 140    | 179   |  |  |
| 12       | 0.43 | 0.43 | 8.75  | 8.75  | 12.00 | —     | 171       | 198     | —       | 202   | 0.42          | 0.42 | 8.75  | 8.75  | 160    | 213   |  |  |
| 14x6     | 0.51 | 0.44 | 6.50  | 10.50 | 14.00 | 16.00 | 183       | 205     | 211     | 210   | 0.47          | 0.36 | 6.50  | 10.50 | 182    | 200   |  |  |
| 14x8     | 0.51 | 0.45 | 7.50  | 10.50 | 14.00 | —     | 211       | —       | —       | 231   | 0.47          | 0.38 | 7.50  | 10.50 | 206    | 228   |  |  |
| 14x10    | 0.51 | 0.46 | 8.50  | 10.50 | 14.00 | —     | 229       | 244     | —       | 255   | 0.47          | 0.40 | 8.50  | 10.50 | 228    | —     |  |  |
| 14x12    | 0.51 | 0.47 | 9.50  | 10.50 | 14.00 | —     | 245       | 284     | —       | 269   | 0.47          | 0.42 | 9.50  | 10.50 | 234    | —     |  |  |
| 14       | 0.51 | 0.51 | 10.50 | 10.50 | 14.00 | —     | 281       | 291     | —       | 299   | 0.47          | 0.47 | 10.50 | 10.50 | 280    | 299   |  |  |
| 16x6     | 0.52 | 0.45 | 6.50  | 11.50 | 14.00 | 16.00 | 222       | 230     | 243     | 250   | 0.50          | 0.36 | 6.50  | 11.50 | 228    | 240   |  |  |
| 16x8     | 0.52 | 0.46 | 7.50  | 11.50 | 15.00 | —     | 245       | 248     | —       | 264   | 0.50          | 0.38 | 7.50  | 11.50 | 248    | 385   |  |  |
| 16x10    | 0.52 | 0.47 | 8.50  | 11.50 | 15.00 | —     | 265       | 287     | —       | 286   | 0.50          | 0.40 | 8.50  | 11.50 | 264    | —     |  |  |
| 16x12    | 0.52 | 0.48 | 9.50  | 11.50 | 15.00 | —     | 277       | 312     | —       | 312   | 0.50          | 0.42 | 9.50  | 11.50 | 280    | —     |  |  |
| 16x14    | 0.52 | 0.51 | 10.50 | 11.50 | 15.00 | —     | 317       | 348     | —       | —     | 0.50          | 0.47 | 10.50 | 11.50 | 316    | —     |  |  |
| 16       | 0.52 | 0.52 | 11.50 | 11.50 | 15.00 | —     | 337       | 324     | —       | 451   | 0.50          | 0.50 | 11.50 | 11.50 | 322    | —     |  |  |
| 18x6     | 0.59 | 0.44 | 6.50  | 14.50 | 15.50 | 18.00 | 275       | 261     | 279     | —     | 0.54          | 0.36 | 6.50  | 12.50 | 275    | —     |  |  |
| 18x8     | 0.59 | 0.45 | 7.50  | 14.50 | 14.50 | —     | 280       | 351     | —       | —     | 0.54          | 0.38 | 7.50  | 12.50 | 295    | —     |  |  |
| 18x10    | 0.59 | 0.47 | 8.50  | 12.50 | —     | —     | 286       | —       | —       | —     | 0.54          | 0.40 | 8.50  | 12.50 | 315    | —     |  |  |
| 18x12    | 0.59 | 0.49 | 9.50  | 12.50 | —     | —     | 372       | —       | —       | —     | 0.54          | 0.42 | 9.50  | 12.50 | 335    | 348   |  |  |
| 18x14    | 0.59 | 0.56 | 10.50 | 12.50 | —     | —     | 415       | —       | —       | —     | 0.54          | 0.47 | 10.50 | 12.50 | 380    | —     |  |  |
| 18x16    | 0.59 | 0.57 | 11.50 | 12.50 | —     | —     | 445       | —       | —       | —     | 0.54          | 0.50 | 11.50 | 12.50 | 405    | —     |  |  |
| 18       | 0.59 | 0.59 | 13.00 | 12.50 | —     | —     | 490       | —       | —       | —     | 0.54          | 0.54 | 12.50 | 12.50 | 435    | 348   |  |  |
| 20x6     | 0.60 | 0.44 | 7.00  | 14.00 | 16.00 | 19.50 | 335       | 362     | 358     | —     | 0.57          | 0.36 | 6.50  | 14.00 | 315    | —     |  |  |
| 20x8     | 0.60 | 0.45 | 8.00  | 14.00 | —     | —     | 390       | —       | —       | —     | 0.57          | 0.38 | 8.00  | 14.00 | 345    | 379   |  |  |
| 20x10    | 0.60 | 0.47 | 9.00  | 14.00 | —     | —     | 417       | —       | —       | —     | 0.57          | 0.40 | 9.00  | 14.00 | 370    | —     |  |  |
| 20x12    | 0.60 | 0.49 | 10.00 | 14.00 | —     | —     | 460       | —       | —       | —     | 0.57          | 0.42 | 10.00 | 14.00 | 395    | 413   |  |  |
| 20x14    | 0.60 | 0.56 | 11.00 | 14.00 | —     | —     | 475       | —       | —       | —     | 0.57          | 0.47 | 11.00 | 14.00 | 440    | —     |  |  |
| 20x16    | 0.60 | 0.57 | 12.00 | 14.00 | —     | —     | 530       | —       | —       | —     | 0.57          | 0.50 | 12.00 | 14.00 | 465    | —     |  |  |
| 20x18    | 0.60 | 0.59 | 13.00 | 14.00 | —     | —     | 560       | —       | —       | —     | 0.57          | 0.54 | 13.00 | 14.00 | 505    | —     |  |  |
| 20       | 0.60 | 0.60 | 14.00 | 14.00 | —     | —     | 605       | —       | —       | —     | 0.57          | 0.57 | 14.00 | 14.00 | 535    | —     |  |  |

**NOTE:** Contact TU Inside Sales representative for MJ Crosses larger than 16 inch. †MJxSwl Weights include swivel gland

**\*\*NOTE:** Other sizes available, contact Tyler Union for information.