

## C153 DUCTILE IRON COMPACT FITTINGS

## SAMPLE SPECIFICATIONS

(Current ANSI/AWWA revisions apply)

Mechanical joint water main fittings with accessories 2" through 64" shall be manufactured from ductile iron in accordance with and meet all applicable terms and provisions of standards ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/A21.11. Ductile iron mechanical joint fittings 2" through 24" shall be rated for 350 psi working pressure. Ductile iron 30" through 48" shall be rated for 250 psi working pressure. Flanged ductile iron fittings in 4" (610 mm) and smaller sizes may be rated for 350 psi (2,413 kPa) with the use of special (annular ring or comparable) gaskets. All coated and lined fittings meet requirements of NSF-61, NSF-372 and Annex G.

**NOTE: EXCEPTIONS:** Mechanical joint fittings with flanged branches are rated for water pressure of 250 psi.

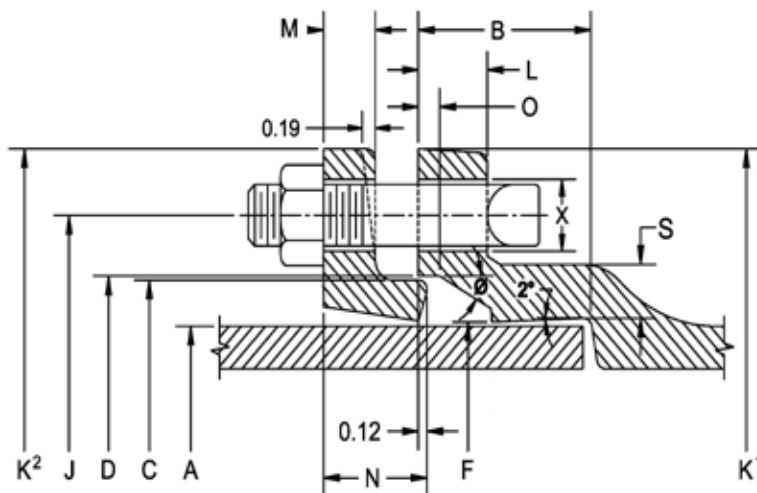
**NOTE:** Wyes over 12" are not pressure rated. Contact manufacturer for rating in your application.

**NOTE:** Fittings are cement lined and seal coated in accordance with ANSI/AWWA C104/A21.4. Fittings are available double cement lined, bare or epoxy coated upon request. Epoxy coating per ANSI/AWWA C116.

**NOTE:** Installation per AWWA C600 and AWWA C651, current revision.

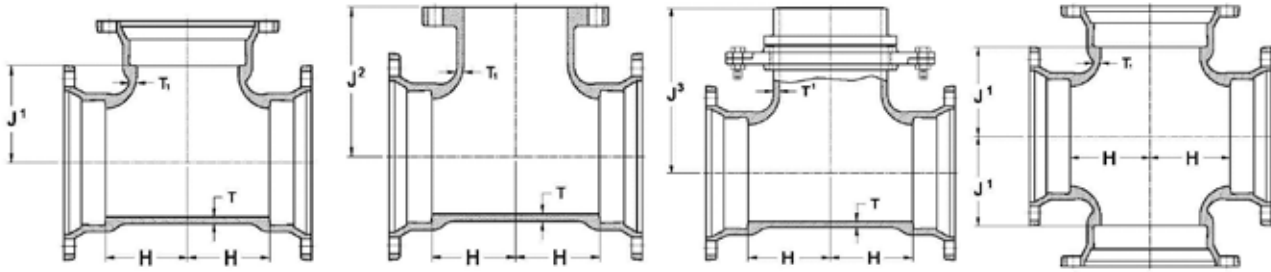
| Nominal Joint Dimensions in Inches |       |      |       |       |       |     |       |       |       |       |      |      |      |      |
|------------------------------------|-------|------|-------|-------|-------|-----|-------|-------|-------|-------|------|------|------|------|
| Size                               | A     | B    | C     | D     | F     | ø   | X     | J     | K1    | K2    | L    | M    | O    | S    |
| 2                                  | 2.51  | 2.50 | 3.50  | 3.60  | 2.61  | 28° | 3/4   | 4.75  | 6.19  | 6.89  | 0.58 | 0.62 | 0.31 | 0.36 |
| 3                                  | 3.96  | 2.50 | 4.84  | 4.94  | 4.06  | 28° | 3/4   | 6.19  | 7.62  | 7.69  | 0.58 | 0.62 | 0.31 | 0.39 |
| 4                                  | 4.80  | 2.50 | 5.92  | 6.02  | 4.90  | 28° | 7/8   | 7.50  | 9.06  | 9.12  | 0.60 | 0.75 | 0.31 | 0.39 |
| 6                                  | 6.90  | 2.50 | 8.02  | 8.12  | 7.00  | 28° | 7/8   | 9.50  | 11.06 | 11.12 | 0.63 | 0.88 | 0.31 | 0.43 |
| 8                                  | 9.05  | 2.50 | 10.17 | 10.27 | 9.15  | 28° | 7/8   | 11.75 | 13.31 | 13.37 | 0.66 | 1.00 | 0.31 | 0.45 |
| 10                                 | 11.10 | 2.50 | 12.22 | 12.34 | 11.20 | 28° | 7/8   | 14.00 | 15.62 | 15.62 | 0.70 | 1.00 | 0.31 | 0.47 |
| 12                                 | 13.20 | 2.50 | 14.32 | 14.44 | 13.30 | 28° | 7/8   | 16.25 | 17.88 | 17.88 | 0.73 | 1.00 | 0.31 | 0.49 |
| 14                                 | 15.30 | 3.50 | 16.40 | 16.54 | 15.44 | 28° | 7/8   | 18.75 | 20.25 | 20.25 | 0.79 | 1.25 | 0.31 | 0.55 |
| 16                                 | 17.40 | 3.50 | 18.50 | 18.64 | 17.54 | 28° | 7/8   | 21.00 | 22.50 | 22.50 | 0.85 | 1.31 | 0.31 | 0.58 |
| 18                                 | 19.50 | 3.50 | 20.60 | 20.74 | 19.64 | 28° | 7/8   | 23.25 | 24.75 | 24.75 | 1.00 | 1.38 | 0.31 | 0.68 |
| 20                                 | 21.60 | 3.50 | 22.70 | 22.84 | 21.74 | 28° | 7/8   | 25.50 | 27.00 | 27.00 | 1.02 | 1.44 | 0.31 | 0.69 |
| 24                                 | 25.80 | 3.50 | 26.90 | 27.04 | 25.94 | 28° | 7/8   | 30.00 | 31.50 | 31.50 | 1.02 | 1.56 | 0.31 | 0.75 |
| 30                                 | 32.00 | 4.00 | 33.29 | 33.46 | 32.17 | 20° | 1 1/8 | 36.88 | 39.12 | 39.12 | 1.31 | 2.00 | 0.38 | 0.82 |
| 36                                 | 38.30 | 4.00 | 39.59 | 39.76 | 38.47 | 20° | 1 1/8 | 43.75 | 46.00 | 46.00 | 1.45 | 2.00 | 0.38 | 1.00 |
| 42                                 | 44.50 | 4.00 | 45.79 | 45.96 | 44.67 | 20° | 1 3/8 | 50.62 | 53.12 | 53.12 | 1.45 | 2.00 | 0.38 | 1.35 |
| 48                                 | 50.80 | 4.00 | 52.09 | 52.26 | 50.97 | 20° | 1 3/8 | 57.50 | 60.00 | 60.00 | 1.45 | 2.00 | 0.38 | 1.35 |
| 54                                 | 57.56 | 4.00 | 58.82 | 59.02 | 57.73 | 20° | 1 3/8 | 63.20 | 65.70 | 65.70 | 1.55 | 2.00 | 0.38 | 1.45 |
| 60                                 | 61.61 | 4.00 | 62.87 | 63.07 | 61.78 | 20° | 1 3/8 | 67.72 | 70.22 | 70.22 | 1.75 | 2.00 | 0.38 | 1.50 |
| 64                                 | 65.67 | 4.00 | 66.96 | 67.13 | 65.84 | 20° | 1 3/8 | 71.86 | 74.36 | 74.36 | 1.75 | 2.00 | 0.38 | 1.50 |

**NOTE:** For projects where product weights, specifications or dimensions are critical, advise upon order placement



ANSI/AWWA  
C153 Mechanical Joint Fittings

## C153 DUCTILE IRON COMPACT FITTINGS

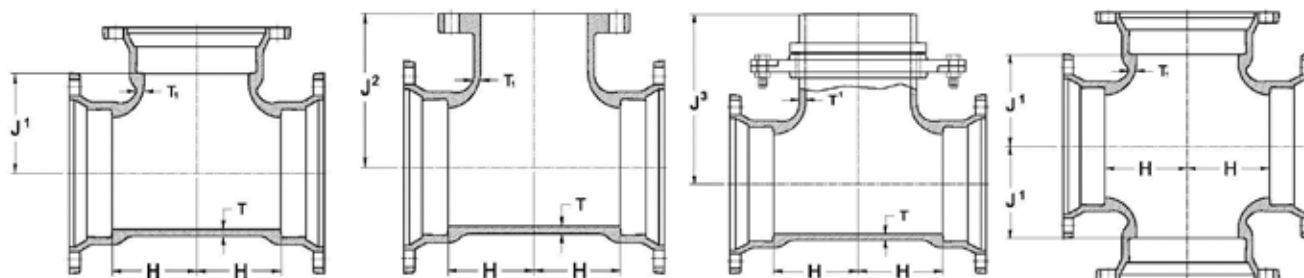


| MJ Tee   |      |      |       |       |       |       | MJxFE Tee |         |         |       | MJxSwivel Tee |      |       |       | Cross  |       |  |  |
|----------|------|------|-------|-------|-------|-------|-----------|---------|---------|-------|---------------|------|-------|-------|--------|-------|--|--|
| 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 | 6.50  | 14.00 | 17.00 | 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". †MJxSwl Weights include swivel gland.

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

## 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 | T             | T1   | H     | J1    | MJ     | Cross |
| 24x6     | 0.62 | 0.44 | 7.00  | 16.00 | 19.00 | 21.50 | 465       | 451     | 457     | 0.61          | 0.36 | 7.00  | 16.00 | 415    | —     |
| 24x8     | 0.62 | 0.45 | 8.00  | 16.00 | —     | —     | 475       | —       | —       | 0.61          | 0.38 | 8.00  | 16.00 | 445    | 481   |
| 24x10    | 0.62 | 0.47 | 9.00  | 16.00 | —     | —     | 516       | —       | —       | 0.61          | 0.40 | 9.00  | 16.00 | 470    | —     |
| 24x12    | 0.62 | 0.49 | 10.00 | 16.00 | —     | —     | 549       | 580     | —       | 0.61          | 0.42 | 10.00 | 16.00 | 500    | 529   |
| 24x14    | 0.62 | 0.56 | 11.00 | 16.00 | —     | —     | 585       | —       | —       | 0.61          | 0.47 | 11.00 | 16.00 | 550    | —     |
| 24x16    | 0.62 | 0.57 | 12.00 | 16.00 | —     | —     | 625       | 744     | —       | 0.61          | 0.50 | 12.00 | 16.00 | 580    | 576   |
| 24x18    | 0.62 | 0.59 | 13.00 | 16.00 | —     | —     | 675       | —       | —       | 0.61          | 0.54 | 13.00 | 16.00 | 625    | —     |
| 24x20    | 0.62 | 0.60 | 14.00 | 16.00 | —     | —     | 740       | —       | —       | 0.61          | 0.57 | 14.00 | 16.00 | 660    | 1589  |
| 24       | 0.62 | 0.62 | 16.00 | 16.00 | —     | —     | 844       | —       | —       | 0.61          | 0.61 | 16.00 | 16.00 | 720    | —     |
| 30x6     | 0.66 | 0.36 | 8.00  | 20.00 | —     | —     | 700       | —       | —       | 0.66          | 0.36 | 8.00  | 20.00 | 685    | —     |
| 30x8     | 0.66 | 0.38 | 8.50  | 20.00 | —     | —     | 739       | —       | —       | 0.66          | 0.38 | 8.50  | 20.00 | 739    | —     |
| 30x12    | 0.66 | 0.42 | 10.00 | 20.00 | —     | —     | 739       | —       | —       | 0.66          | 0.42 | 10.00 | 20.00 | 830    | 882   |
| 30x16    | 0.66 | 0.50 | 12.50 | 20.00 | —     | —     | 959       | —       | —       | 0.66          | 0.50 | 12.50 | 20.00 | 959    | —     |
| 30x18    | 0.66 | 0.52 | 13.00 | 20.00 | —     | —     | 975       | —       | —       | 0.66          | 0.54 | 13.00 | 20.00 | 1039   | —     |
| 30x20    | 0.66 | 0.57 | 15.00 | 20.00 | —     | —     | 995       | —       | —       | 0.66          | 0.57 | 15.00 | 20.00 | 995    | —     |
| 30x24    | 0.66 | 0.61 | 16.00 | 20.00 | —     | —     | 1160      | —       | —       | 0.66          | 0.61 | 16.00 | 20.00 | 1060   | 1246  |
| 30       | 0.66 | 0.66 | 20.00 | 20.00 | —     | —     | 1323      | —       | —       | 0.66          | 0.66 | 20.00 | 20.00 | 1323   | 1840  |
| 36x6     | 0.74 | 0.36 | 7.00  | 23.50 | —     | —     | 630       | —       | —       | 0.74          | 0.36 | 8.00  | 23.50 | 685    | —     |
| 36x8     | 0.74 | 0.38 | 9.00  | 23.50 | —     | —     | 739       | —       | —       | 0.74          | 0.38 | 8.50  | 23.50 | 739    | —     |
| 36x10    | 0.74 | 0.47 | 10.00 | 23.50 | —     | —     | 739       | —       | —       | 0.74          | 0.40 | 10.00 | 23.50 | 830    | 882   |
| 36x12    | 0.74 | 0.49 | 10.00 | 23.50 | —     | —     | 959       | —       | —       | 0.74          | 0.42 | 12.50 | 23.50 | 959    | —     |
| 36x14    | 0.74 | 0.56 | 12.50 | 23.50 | —     | —     | 1103      | —       | —       | 0.74          | 0.47 | 10.00 | 23.50 | 1146   | —     |
| 36x16    | 0.74 | 0.57 | 12.50 | 23.50 | —     | —     | 1385      | —       | —       | 0.74          | 0.50 | 12.50 | 23.50 | 1190   | —     |
| 36x18    | 0.74 | 0.59 | 13.00 | 23.50 | —     | —     | 1400      | —       | —       | 0.74          | 0.54 | 12.50 | 23.50 | 1410   | —     |
| 36x20    | 0.74 | 0.60 | 15.00 | 23.50 | —     | —     | 1521      | —       | —       | 0.74          | 0.57 | 12.50 | 23.50 | 1365   | —     |
| 36x24    | 0.74 | 0.61 | 16.00 | 23.50 | —     | —     | 1533      | —       | —       | 0.74          | 0.61 | 16.00 | 23.50 | 1446   | 1785  |
| 36x30    | 0.74 | 0.66 | 20.00 | 23.50 | —     | —     | 2270      | —       | —       | 0.74          | 0.66 | 20.00 | 23.50 | 1675   | —     |
| 36       | 0.74 | 0.74 | 23.50 | 23.50 | —     | —     | 1910      | —       | —       | 0.74          | 0.74 | 23.50 | 23.50 | 2015   | 2655  |
| 42x12    | 0.82 | 0.62 | 10.00 | 27.50 | —     | —     | 1410      | —       | —       | 0.82          | 0.42 | 10.00 | 27.50 | 1885   | —     |
| 42x24    | 0.82 | 0.62 | 20.00 | 27.50 | —     | —     | 2295      | —       | —       | 0.82          | 0.61 | 20.00 | 27.50 | 2270   | 2668  |
| 42x30    | 0.82 | 0.66 | 22.00 | 29.50 | —     | —     | 2337      | —       | —       | 0.82          | 0.66 | 22.00 | 30.00 | 2425   | 2950  |
| 42x36    | 0.82 | 0.74 | 30.00 | 30.00 | —     | —     | 3000      | —       | —       | 0.82          | 0.74 | 30.00 | 30.00 | 3000   | 3607  |
| 42       | 0.82 | 0.82 | 30.00 | 30.00 | —     | —     | 3169      | —       | —       | 0.82          | 0.82 | 30.00 | 30.00 | 3175   | 3725  |
| 48x12    | 0.90 | 0.62 | 9.00  | 32.00 | —     | —     | 2500      | —       | —       | 0.90          | 0.42 | 9.00  | 32.00 | 2535   | —     |
| 48x24    | 0.90 | 0.62 | 23.00 | 32.00 | —     | —     | 2822      | —       | —       | 0.90          | 0.74 | 23.00 | 32.00 | 2870   | —     |
| 48x36    | 0.90 | 0.82 | 33.50 | 33.25 | —     | —     | 3982      | —       | —       | 0.90          | 0.74 | 33.50 | 33.25 | 3900   | —     |
| 48x42    | 0.90 | 0.82 | 33.50 | 33.50 | —     | —     | 4100      | —       | —       | 0.90          | 0.82 | 33.50 | 33.50 | 4100   | —     |
| 48       | 0.90 | 0.82 | 33.50 | 33.50 | —     | —     | 4251      | —       | —       | 0.90          | 0.90 | 33.50 | 33.50 | 4250   | 4955  |

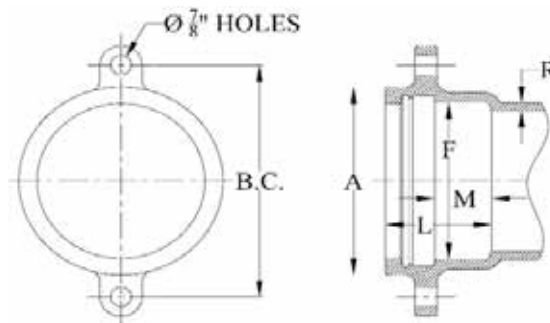
† Weight includes the swivel gland.



# 25U — ANSI/AWWA C153/A21.53 UNION-TITE COMPACT DUCTILE IRON FITTINGS

Revised (Current revisions for the noted Standards apply)

|                             |                                                                                                                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SIZES:</b>               | 4"–24"                                                                                                                                                                                                                                                                                               |
| <b>STANDARDS:</b>           | ANSI/AWWA C153/A21.53, NFPA13/24, 4"–12" UL listed & approved (File - Tyler Union).                                                                                                                                                                                                                  |
| <b>MATERIAL:</b>            | Cast of ASTM A536 qualified ductile iron. Date code is cast on and required for traceability.                                                                                                                                                                                                        |
| <b>PRESSURE RATING:</b>     | Union-Tite/Push-on Joints 4"–24" rated at 350 psi. *Flanged fittings rated at 250 psi. <b>*Note:</b> With rubber annular ring flange gasket, 4"–24" Flanged fittings can be rated at 350 psi. <b>Note:</b> Wyes over 12" are not pressure rated. Contact Tyler Union for rating in your application. |
| <b>DEFLECTION:</b>          | Joint deflection 5° max for 4"–12" and 3° max for 14"–24". Reduces by 50% at nominal pipe & fitting diameters.                                                                                                                                                                                       |
| <b>NSF-61 &amp; NSF372:</b> | Meets all requirements, including Annex G, Tyler Union's Underwriters Laboratory listing MH16439.                                                                                                                                                                                                    |
| <b>ASPHALT COATING:</b>     | Per ANSI/AWWA C104/A21.4 and ANSI/AWWA C153/A21.53.                                                                                                                                                                                                                                                  |
| <b>CEMENT LINING:</b>       | Per ANSI/AWWA C104/A21.4, with double cement lining available upon request.                                                                                                                                                                                                                          |
| <b>EPOXY COATING:</b>       | Fusion-bonded epoxy per ANSI/AWWA C116/A21.16. Additional coatings available upon request.                                                                                                                                                                                                           |
| <b>BARE FITTINGS:</b>       | Available upon request.                                                                                                                                                                                                                                                                              |
| <b>FASTENERS:</b>           | High-strength low-alloy weathering steel per ANSI/AWWA C111/A21.11 and ASTM A242.                                                                                                                                                                                                                    |
| <b>RESTRAINING LUGS:</b>    | *Lugs provided on 16" and smaller fittings. Lug pattern accommodates most grip type restraints. <b>*NOTE:</b> With sufficient lead time to adapt tooling, restraining lugs are available on 18"–24" fittings.                                                                                        |
| <b>INSTALLATION:</b>        | Install per AWWA C600/C651 using pipe conforming to ANSI/AWWA C151/A21.51 or AWWA C900/905. Designed for use with TYTON® and McWane SURE STOP® gaskets. Contact Tyler Union regarding the installation or use of other gasket types and/or gasket manufacturers.                                     |



NOMINAL JOINT DIMENSIONS IN INCHES

| Size (In.) | Pipe Diameter | A Diam. | F Diam. | B.C. Diam. | L Diam. | M Diam. | R Diam. |
|------------|---------------|---------|---------|------------|---------|---------|---------|
| 4          | 4.80          | 6.38    | 5.04    | 7.88       | 4.16    | 2.25    | 0.35    |
| 6          | 6.90          | 8.52    | 7.14    | 10.50      | 4.29    | 2.25    | 0.37    |
| 8          | 9.05          | 10.90   | 9.32    | 12.88      | 4.78    | 2.25    | 0.39    |
| 10         | 11.10         | 12.91   | 11.37   | 14.69      | 4.98    | 2.25    | 0.41    |
| 12         | 13.20         | 15.12   | 13.47   | 17.19      | 4.98    | 2.25    | 0.43    |
| 14         | 15.30         | 18.12   | 15.64   | 19.00      | 5.40    | 2.25    | 0.51    |
| 16         | 17.40         | 20.32   | 17.74   | 21.40      | 5.40    | 2.25    | 0.52    |
| 18         | 19.50         | 22.52   | 19.83   | —          | 5.40    | 2.25    | 0.59    |
| 20         | 21.60         | 24.29   | 21.94   | —          | 5.40    | 2.25    | 0.60    |
| 24         | 25.80         | 29.14   | 26.14   | —          | 5.65    | 2.50    | 0.62    |