

### SAMPLE SPECIFICATION

Mechanical Joint watermain fittings with accessories, 2" through 48" shall be produced of Ductile Iron in accordance with and meet all applicable terms and provisions of standards ANSI/AWWA C110/A21.10 ANSI/AWWA C111/A21.11 (current revisions). Ductile Iron Mechanical Joint Fittings 3" through 24" shall be rated for 350 PSI working pressure. All Ductile Iron Mechanical Joint Fittings 30" through 48" shall be rated for 250 PSI working pressure.

NOTE - EXCEPTIONS: Mechanical Joint Fittings with flanged branches and 14" and larger caps and plugs are rated for water pressure of 250 PSI.

NOTE: Fittings are CEMENT-LINED and seal coated in accordance with ANSI/AWWA C104/A21.4; also available double cement-lined, bare or epoxy coated. All coated fittings meet requirements of NSF-61.

## JOINT DIMENSIONS IN INCHES FOR MECHANICAL JOINT FITTINGS

### DIMENSIONS IN INCHES

| Size | A     | B    | C     | D     | F     | ⅓   | X  | J     | K <sup>1</sup> | K <sup>2</sup> | L    | M    | N    | O   | P    | S    |
|------|-------|------|-------|-------|-------|-----|----|-------|----------------|----------------|------|------|------|-----|------|------|
| *2   | 2.50  | 2.50 | 3.39  | 3.50  | 2.61  | 28° | ¾  | 4.75  | 6.25           | 6.25           | .75  | .62  | ...  | .31 | .63  | .44  |
| 3    | 3.96  | 2.50 | 4.84  | 4.94  | 4.06  | 28° | ¾  | 6.19  | 7.69           | 7.69           | .94  | .62  | 1.37 | .31 | .63  | .52  |
| 4    | 4.80  | 2.50 | 5.92  | 6.02  | 4.90  | 28° | ⅞  | 7.50  | 9.12           | 9.12           | 1.00 | .75  | 1.50 | .31 | .75  | .65  |
| 6    | 6.90  | 2.50 | 8.02  | 8.12  | 7.00  | 28° | ⅞  | 9.50  | 11.12          | 11.12          | 1.06 | .88  | 1.63 | .31 | .75  | .70  |
| 8    | 9.05  | 2.50 | 10.17 | 10.27 | 9.15  | 28° | ⅞  | 11.75 | 13.37          | 13.37          | 1.12 | 1.00 | 1.75 | .31 | .75  | .75  |
| 10   | 11.10 | 2.50 | 12.22 | 12.34 | 11.20 | 28° | ⅞  | 14.00 | 15.69          | 15.62          | 1.19 | 1.00 | 1.75 | .31 | .75  | .80  |
| 12   | 13.20 | 2.50 | 14.32 | 14.44 | 13.30 | 28° | ⅞  | 16.25 | 17.94          | 17.88          | 1.25 | 1.00 | 1.75 | .31 | .75  | .85  |
| 14   | 15.30 | 3.50 | 16.40 | 16.54 | 15.44 | 28° | ⅞  | 18.75 | 20.31          | 20.25          | 1.31 | 1.25 | 2.00 | .31 | .75  | .89  |
| 16   | 17.40 | 3.50 | 18.50 | 18.64 | 17.54 | 28° | ⅞  | 21.00 | 22.56          | 22.50          | 1.38 | 1.31 | 2.06 | .31 | .75  | .97  |
| 18   | 19.50 | 3.50 | 20.60 | 20.74 | 19.64 | 28° | ⅞  | 23.25 | 24.83          | 24.75          | 1.44 | 1.38 | 2.13 | .31 | .75  | 1.05 |
| 20   | 21.60 | 3.50 | 22.70 | 22.84 | 21.74 | 28° | ⅞  | 25.50 | 27.08          | 27.00          | 1.50 | 1.44 | 2.19 | .31 | .75  | 1.12 |
| 24   | 25.80 | 3.50 | 26.90 | 27.04 | 25.94 | 28° | ⅞  | 30.00 | 31.58          | 31.50          | 1.62 | 1.56 | 2.31 | .31 | .75  | 1.22 |
| 30   | 32.00 | 4.00 | 33.29 | 33.46 | 32.17 | 20° | 1⅛ | 36.88 | 39.12          | 39.12          | 1.81 | 2.00 | 2.75 | .38 | 1.00 | 1.50 |
| 36   | 38.30 | 4.00 | 39.59 | 39.76 | 38.47 | 20° | 1⅛ | 43.75 | 46.00          | 46.80          | 2.00 | 2.00 | 2.75 | .38 | 1.00 | 1.80 |
| 42   | 44.50 | 4.00 | 45.79 | 45.96 | 44.67 | 20° | 1⅜ | 50.62 | 53.12          | 53.12          | 2.00 | 2.00 | 2.75 | .38 | 1.00 | 1.95 |
| 48   | 50.80 | 4.00 | 52.09 | 52.26 | 50.97 | 20° | 1⅜ | 57.50 | 60.00          | 60.00          | 2.00 | 2.00 | 2.75 | .38 | 1.00 | 2.20 |

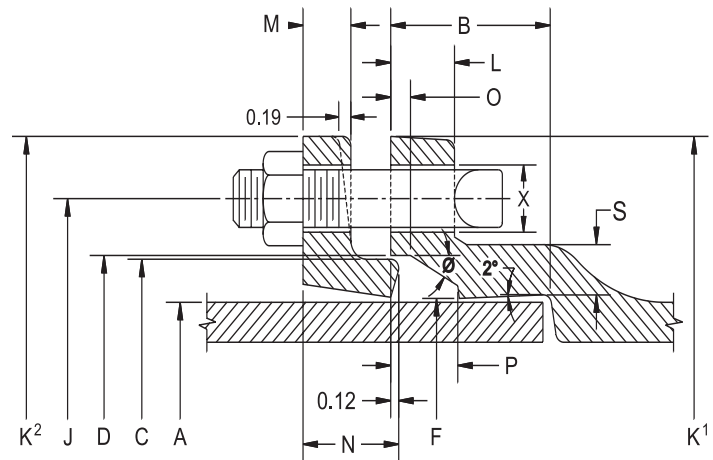
\* Not included in AWWA C110.

### ACCESSORIES AND WEIGHTS

| Size | No. | Bolt Size | Bolt Length | Bolt Torque Ft/Lbs. | Wt. of Gland, Bolts and Gasket, Lbs. | Pipe Barrel O.D. |
|------|-----|-----------|-------------|---------------------|--------------------------------------|------------------|
| *2   | 2   | ⅝         | 3           | 45-60               | 5                                    | 2.50             |
| 3    | 4   | ⅝         | 3           | 45-60               | 7                                    | 3.96             |
| 4    | 4   | ¾         | 3½          | 75-90               | 10                                   | 4.80             |
| 6    | 6   | ¾         | 4           | 75-90               | 16                                   | 6.90             |
| 8    | 6   | ¾         | 4           | 75-90               | 25                                   | 9.05             |
| 10   | 8   | ¾         | 4           | 75-90               | 30                                   | 11.10            |
| 12   | 8   | ¾         | 4           | 75-90               | 40                                   | 13.20            |
| 14   | 10  | ¾         | 4½          | 75-90               | 45                                   | 15.30            |
| 16   | 12  | ¾         | 4½          | 75-90               | 55                                   | 17.40            |
| 18   | 12  | ¾         | 4½          | 75-90               | 65                                   | 19.50            |
| 20   | 14  | ¾         | 4½          | 75-90               | 85                                   | 21.60            |
| 24   | 16  | ¾         | 5           | 75-90               | 105                                  | 25.80            |
| 30   | 20  | 1         | 6           | 100-120             | 220                                  | 32.00            |
| 36   | 24  | 1         | 6           | 100-120             | 301                                  | 38.30            |
| 42   | 28  | 1¼        | 6½          | 120-150             | 389                                  | 44.50            |
| 48   | 32  | 1¼        | 6½          | 120-150             | 477                                  | 50.80            |

\* Not included in AWWA C110.

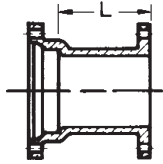
14" THRU 48"  
GLANDS MAY  
BE TAPERED



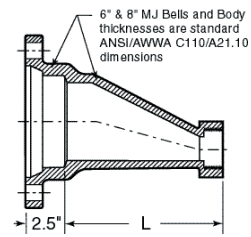
# Tyler/Union

## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

### ADAPTERS



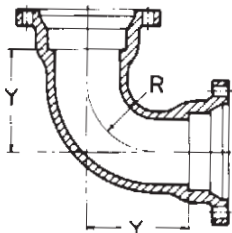
| MJ x FE    |   |         |
|------------|---|---------|
| Dimensions |   |         |
| Size       | L | Weights |
| 3          | 8 | 30      |
| 4          | 8 | 42      |
| 6          | 8 | 62      |
| 8          | 8 | 88      |
| 10         | 8 | 120     |
| 12         | 8 | 150     |
| 16         | 8 | 257     |
| 18         | 8 | 324     |
| 20         | 8 | 365     |
| 24         | 8 | 528     |



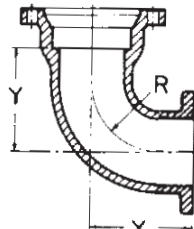
### MJ x FIPT ECCENTRIC REDUCER

| Dimensions |    |         |
|------------|----|---------|
| Size       | L  | Weights |
| 6x2        | 13 | 51      |
| 8x2        | 15 | 71      |

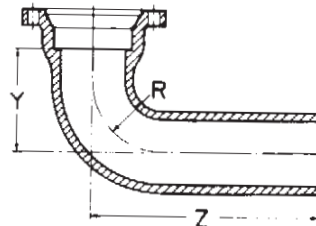
### BENDS



90° MJ x MJ (1/4)



90° MJ x FE (1/4)



90° MJ x PE (1/4)

### 90° Bends (1/4)

| Size | Dimensions |      |      | Weights |       |       |
|------|------------|------|------|---------|-------|-------|
|      | R          | Y    | Z    | MJxMJ   | MJxPE | MJxFE |
| *2   | 2.25       | 3.25 | ...  | 16      | ...   | ...   |
| 3    | 4.0        | 5.5  | 13.5 | 26      | 36    | ...   |
| 4    | 4.5        | 6.5  | 14.5 | 56      | 53    | 51    |
| 6    | 6.0        | 8.0  | 16.0 | 88      | 80    | 75    |
| 8    | 7.0        | 9.0  | 17.0 | 123     | 119   | 118   |
| 10   | 9.0        | 11.0 | 19.0 | 189     | 181   | 168   |
| 12   | 10.0       | 12.0 | 20.0 | 268     | 252   | 288   |
| 14   | 11.5       | 14.0 | 22.0 | 380     | ...   | ...   |
| 16   | 12.5       | 15.0 | 23.0 | 552     | 470   | 465   |
| 18   | 14.0       | 16.5 | 24.5 | 625     | 600   | 577   |
| 20   | 15.5       | 18.0 | 26.0 | 862     | 775   | ...   |
| 24   | 18.5       | 22.0 | 30.0 | 1423    | 1301  | 1150  |
| 30   | 21.5       | 25.0 | 33.0 | 1942    | 1920  | ...   |
| 36   | 24.5       | 28.0 | 36.0 | 2629    | 2310  | ...   |

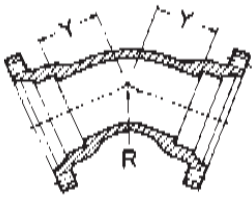
Mechanical Joint weights do not include Glands, Nuts, Bolts and Gaskets. See Joint Accessories.

For sizes not found in this section check MJ-SSB DI fittings, pages 1 thru 8.

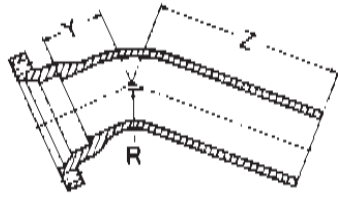
# Tyler/Union

## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

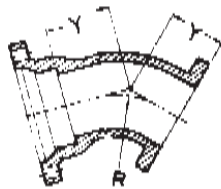
### BENDS



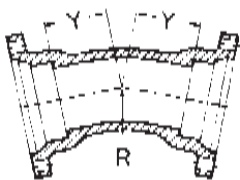
45° MJ (1/8)



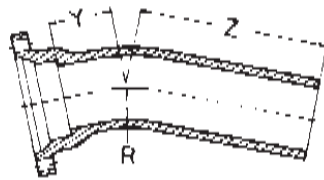
45° MJ x PE (1/8)



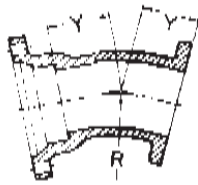
45° MJ x FE (1/8)



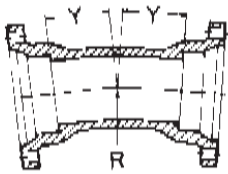
22½° MJ (1/16)



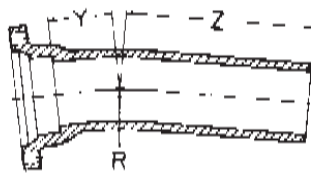
22½° MJ x PE (1/16)



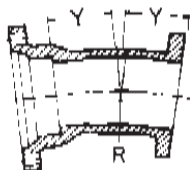
22½° MJ x FE (1/16)



11¼° MJ (1/32)



11¼° MJ x PE (1/32)



11¼° MJ x FE (1/32)

### 45° Bends (1/8)

| Size | Dimensions |      |      | MJ   | Weights |       |
|------|------------|------|------|------|---------|-------|
|      | R          | Y    | Z    |      | MJxFE*  | MJxPE |
| *2   | 1.96       | 1.8  | ...  | 16   | ...     | ...   |
| 3    | 3.62       | 3.0  | 11.0 | 30   | ...     | ...   |
| 4    | 4.81       | 4.0  | 12.0 | 53   | 48      | 45    |
| 6    | 7.25       | 5.0  | 13.0 | 77   | 60      | 69    |
| 8    | 8.44       | 5.5  | 13.5 | 110  | 107     | 111   |
| 10   | 10.88      | 6.5  | 14.5 | 172  | 168     | 167   |
| 12   | 13.25      | 7.5  | 15.5 | 222  | 215     | 218   |
| 14   | 12.06      | 7.5  | 15.5 | 311  | ...     | ...   |
| 16   | 13.25      | 8.0  | 16.0 | 364  | 360     | 360   |
| 18   | 14.50      | 8.5  | 16.5 | 531  | 430     | 455   |
| 20   | 16.88      | 9.5  | 17.5 | 655  | 543     | 664   |
| 24   | 18.12      | 11.0 | 19.0 | 865  | 1099    | 825   |
| 30   | 27.75      | 15.0 | 23.0 | 1447 | ...     | 1510  |
| 36   | 35.00      | 18.0 | 26.0 | 2435 | ...     | 1930  |

### 22½° Bends (1/16)

| Size | Dimensions |      |      | MJ   | Weights |       |
|------|------------|------|------|------|---------|-------|
|      | R          | Y    | Z    |      | MJxFE*  | MJxPE |
| 3    | 7.56       | 3.0  | 11.0 | 30   | ...     | ...   |
| 4    | 10.06      | 4.0  | 12.0 | 52   | ...     | ...   |
| 6    | 15.06      | 5.0  | 13.0 | 77   | 71      | 70    |
| 8    | 17.62      | 5.5  | 13.5 | 110  | 107     | 109   |
| 10   | 22.62      | 6.5  | 14.5 | 156  | 155     | 163   |
| 12   | 27.62      | 7.5  | 15.5 | 221  | 215     | 224   |
| 14   | 25.12      | 7.5  | 15.5 | 300  | ...     | ...   |
| 16   | 27.62      | 8.0  | 16.0 | 391  | 315     | 365   |
| 18   | 30.19      | 8.5  | 16.5 | 527  | 422     | 455   |
| 20   | 35.19      | 9.5  | 17.5 | 611  | ...     | 575   |
| 24   | 37.69      | 11.0 | 19.0 | 986  | 800     | 930   |
| 30   | 57.81      | 15.0 | 23.0 | 1898 | ...     | 1540  |
| 36   | 72.88      | 18.0 | 26.0 | 2372 | ...     | 1970  |

### 11¼° Bends (1/32)

| Size | Dimensions |      |      | MJ   | Weights |       |
|------|------------|------|------|------|---------|-------|
|      | R          | Y    | Z    |      | MJxFE*  | MJxPE |
| 3    | 15.25      | 3.0  | 11.0 | 30   | ...     | ...   |
| 4    | 20.31      | 4.0  | 12.0 | 52   | ...     | ...   |
| 6    | 30.50      | 5.0  | 13.0 | 65   | 71      | ...   |
| 8    | 35.50      | 5.5  | 13.5 | 104  | 105     | ...   |
| 10   | 45.69      | 6.5  | 14.5 | 171  | ...     | ...   |
| 12   | 55.81      | 7.5  | 15.5 | 221  | 215     | ...   |
| 14   | 50.75      | 7.5  | 15.5 | 305  | ...     | ...   |
| 16   | 55.81      | 8.0  | 16.0 | 391  | 367     | ...   |
| 18   | 60.94      | 8.5  | 16.5 | 525  | 422     | ...   |
| 20   | 71.06      | 9.5  | 17.5 | 605  | ...     | ...   |
| 24   | 76.12      | 11.0 | 19.0 | 996  | 800     | 972   |
| 30   | 116.75     | 15.0 | 23.0 | 1410 | ...     | 1305  |
| 36   | 147.25     | 18.0 | 26.0 | 2397 | ...     | 2185  |

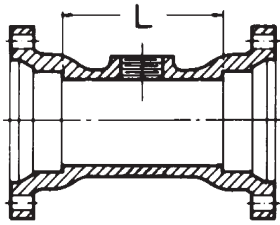
\* Not included in AWWA C110.

ANSI/AWWA C110/A21.10, ANSI/AWWA C111/A21.11

Tyler Pipe/Utilities Division • Box 2027 • Tyler, Texas 75710 • (800) 527-8478

Union Foundry Company • Box 309 • Anniston, Alabama 36202 • (800) 226-7601

### MJ TAPPED TEE

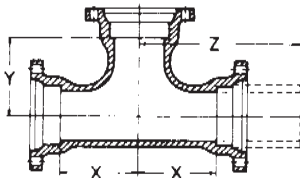


### MJ Tapped Tee (2" Tap)

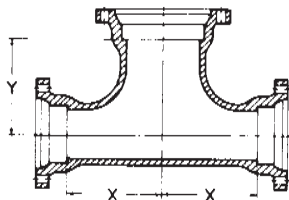
| Size | Dimensions |          | Weights |
|------|------------|----------|---------|
|      | L          | Max. Tap |         |
| 3    | 8          | 2        | 40      |
| 4    | 8          | 2        | 51      |
| 6    | 8          | 2        | 73      |
| 8    | 8          | 2        | 104     |
| 10   | 8          | 2        | 130     |
| 12   | 8          | 2        | 180     |

For sizes not found in this section check MJ-SSB DI fittings, pages 1 thru 8.

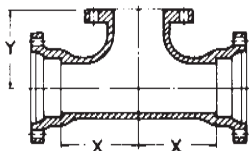
### TEES



**Straight Tees and Reducing on Branch Tees**



**Bullhead**



**MJxMJxFE**

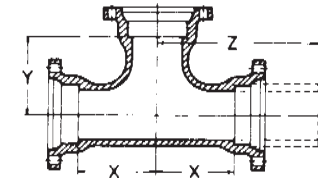
| Run | Size Run | Branch | Dimensions |      |      | MJ  | Weights    |            |
|-----|----------|--------|------------|------|------|-----|------------|------------|
|     |          |        | X          | Y    | Z    |     | **MJxPExMJ | **MJxMJxFE |
| *2  | 2        | 2      | 3.25       | 3.25 | ...  | 21  | ...        | ...        |
| *3  | 3        | 2      | 3.25       | 3.25 | ...  | 45  | ...        | ...        |
| 3   | 3        | 3      | 5.5        | 5.5  | 13.5 | 58  | ...        | ...        |
| *4  | 4        | 2      | 4.8        | 4.8  | 14.5 | 68  | ...        | 49         |
| 4   | 4        | 3      | 6.5        | 6.5  | 14.5 | 77  | ...        | ...        |
| 4   | 4        | 4      | 6.5        | 6.5  | 14.5 | 78  | 75         | 76         |
| 4   | 4        | 6      | 8.0        | 8.0  | ...  | 112 | ...        | ...        |
| *6  | 6        | 2      | 8.0        | 8.0  | ...  | 78  | ...        | ...        |
| 6   | 6        | 3      | 8.0        | 8.0  | 16.0 | 112 | ...        | ...        |
| 6   | 6        | 4      | 8.0        | 8.0  | 16.0 | 110 | ...        | 109        |
| 6   | 6        | 6      | 8.0        | 8.0  | 16.0 | 119 | 120        | 141        |
| 6   | 6        | 8      | 9.0        | 9.0  | ...  | 158 | ...        | ...        |
| 8   | 8        | 3      | 9.0        | 9.0  | 17.0 | 155 | ...        | ...        |
| 8   | 8        | 4      | 9.0        | 9.0  | 17.0 | 157 | ...        | 150        |
| 8   | 8        | 6      | 9.0        | 9.0  | 17.0 | 175 | 170        | 182        |
| 8   | 8        | 8      | 9.0        | 9.0  | 17.0 | 199 | 180        | 194        |
| 10  | 10       | 4      | 11.0       | 11.0 | 19.0 | ... | ...        | 229        |
| 10  | 10       | 6      | 11.0       | 11.0 | 19.0 | 258 | ...        | 264        |
| 10  | 10       | 8      | 11.0       | 11.0 | 19.0 | 268 | ...        | 245        |
| 10  | 10       | 10     | 11.0       | 11.0 | 19.0 | 300 | 250        | ...        |

\* Not included in AWWA C110  
 \*\* Made to order only. Not Returnable

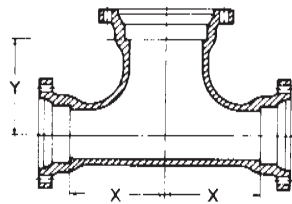
**NOTICE:** Weights published in this catalog are for shipping purposes only. Actual weights may vary because some fittings are produced in both foundries. All fittings are made in the USA and meet the AWWA standards to which they are designed.

For weights of specific fittings, please contact Tyler Pipe or Union Foundry Company.

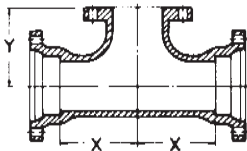
### TEES (Con't)



**Straight Tees and Reducing on Branch Tees**



**Bullhead**



**MJxMJxFE**

| Run | Size |        | X    | Dimensions |      |      | Weights    |            |  |
|-----|------|--------|------|------------|------|------|------------|------------|--|
|     | Run  | Branch |      | Y          | Z    | MJ   | **MJxPExMJ | **MJxMJxFE |  |
| 12  | 12   | 4      | 12.0 | 12.0       | 20.0 | 318  | 315        | 323        |  |
| 12  | 12   | 6      | 12.0 | 12.0       | 20.0 | 325  | 325        | 335        |  |
| 12  | 12   | 8      | 12.0 | 12.0       | 20.0 | 335  | 335        | 372        |  |
| 12  | 12   | 10     | 12.0 | 12.0       | 20.0 | 392  | 390        | ...        |  |
| 12  | 12   | 12     | 12.0 | 12.0       | 20.0 | 396  | 396        | 476        |  |
| *16 | 16   | 4      | 15.0 | 15.0       | ...  | 600  | ...        | 575        |  |
| 16  | 16   | 6      | 15.0 | 15.0       | ...  | 656  | ...        | 605        |  |
| 16  | 16   | 8      | 15.0 | 15.0       | ...  | 625  | ...        | 615        |  |
| 16  | 16   | 10     | 15.0 | 15.0       | ...  | 645  | ...        | ...        |  |
| 16  | 16   | 12     | 15.0 | 15.0       | ...  | 715  | ...        | 651        |  |
| 16  | 16   | 16     | 15.0 | 15.0       | ...  | 780  | ...        | 730        |  |
| 18  | 18   | 6      | 13.0 | 15.5       | ...  | 710  | ...        | 707        |  |
| 18  | 18   | 8      | 13.0 | 15.5       | ...  | 674  | ...        | 675        |  |
| 18  | 18   | 12     | 13.0 | 15.5       | ...  | 749  | ...        | 733        |  |
| 18  | 18   | 18     | 16.5 | 16.5       | ...  | 945  | ...        | 953        |  |
| 20  | 20   | 6      | 14.0 | 17.0       | ...  | 849  | ...        | ...        |  |
| 20  | 20   | 8      | 14.0 | 17.0       | ...  | 892  | ...        | 859        |  |
| 20  | 20   | 12     | 14.0 | 17.0       | ...  | 896  | ...        | ...        |  |
| 20  | 20   | 16     | 18.0 | 18.0       | ...  | 1095 | ...        | ...        |  |
| 20  | 20   | 20     | 18.0 | 18.0       | ...  | 1258 | ...        | 1168       |  |
| 24  | 24   | 6      | 15.0 | 19.0       | ...  | 1233 | ...        | 1228       |  |
| 24  | 24   | 8      | 15.0 | 19.0       | ...  | 1234 | ...        | 1242       |  |
| 24  | 24   | 12     | 15.0 | 19.0       | ...  | 1256 | ...        | 1165       |  |
| 24  | 24   | 14     | 15.0 | 19.0       | ...  | 1220 | ...        | ...        |  |
| 24  | 24   | 16     | 15.0 | 19.0       | ...  | 1245 | ...        | ...        |  |
| 24  | 24   | 18     | 22.0 | 22.0       | ...  | 1735 | ...        | ...        |  |
| 24  | 24   | 20     | 22.0 | 22.0       | ...  | 1720 | ...        | ...        |  |
| 24  | 24   | 24     | 22.0 | 22.0       | ...  | 1947 | ...        | 1795       |  |
| 30  | 30   | 6      | 18.0 | 23.0       | ...  | 2050 | ...        | ...        |  |
| 30  | 30   | 8      | 18.0 | 23.0       | ...  | 2060 | ...        | ...        |  |
| 30  | 30   | 10     | 18.0 | 23.0       | ...  | 2075 | ...        | ...        |  |
| 30  | 30   | 12     | 18.0 | 23.0       | ...  | 2090 | ...        | ...        |  |
| 30  | 30   | 16     | 18.0 | 23.0       | ...  | 2145 | ...        | ...        |  |
| 30  | 30   | 18     | 18.0 | 23.0       | ...  | 2170 | ...        | ...        |  |
| 30  | 30   | 20     | 18.0 | 23.0       | ...  | 2205 | ...        | ...        |  |
| 30  | 30   | 24     | 25.0 | 25.0       | ...  | 2880 | ...        | ...        |  |
| 30  | 30   | 30     | 25.0 | 25.0       | ...  | 2388 | ...        | 3080       |  |
| 36  | 36   | 6      | 20.0 | 26.0       | ...  | 2439 | ...        | 2430       |  |
| 36  | 36   | 8      | 20.0 | 26.0       | ...  | 2444 | ...        | ...        |  |
| 36  | 36   | 10     | 20.0 | 26.0       | ...  | 2535 | ...        | ...        |  |
| 36  | 36   | 12     | 20.0 | 26.0       | ...  | 2541 | ...        | 2550       |  |
| 36  | 36   | 14     | 20.0 | 26.0       | ...  | 2570 | ...        | ...        |  |
| 36  | 36   | 16     | 20.0 | 26.0       | ...  | 2585 | ...        | 2450       |  |
| 36  | 36   | 18     | 20.0 | 26.0       | ...  | 2610 | ...        | ...        |  |
| 36  | 36   | 20     | 20.0 | 26.0       | ...  | 2635 | ...        | ...        |  |
| 36  | 36   | 24     | 20.0 | 26.0       | ...  | 2792 | ...        | 2660       |  |
| 36  | 36   | 30     | 28.0 | 28.0       | ...  | 3545 | ...        | ...        |  |
| 36  | 36   | 36     | 28.0 | 28.0       | ...  | 3982 | ...        | ...        |  |

\* Not included in AWWA C110

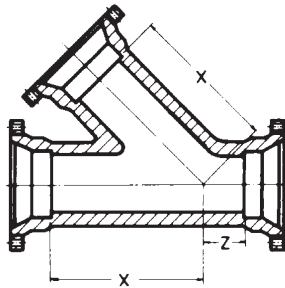
\*\* Made to order only. Not Returnable

# Tyler/Union

## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

### WYES

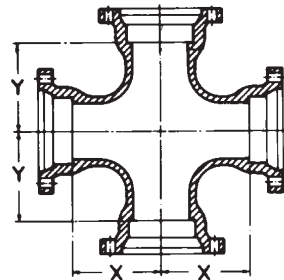
(Not included in AWWA C110.)



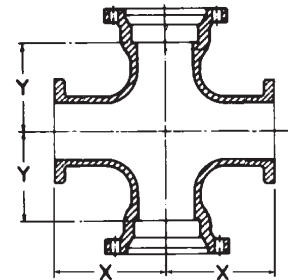
| Run | Size Branch | Dimensions |     | Weights |
|-----|-------------|------------|-----|---------|
|     |             | X          | Z   |         |
| 3   | 3           | 10.0       | 3.0 | 60      |
| 4   | 4           | 12.0       | 3.0 | 90      |
| 6   | 4           | 14.5       | 3.5 | 130     |
| 6   | 6           | 14.5       | 3.5 | 145     |
| 8   | 4           | 17.5       | 4.5 | 190     |
| 8   | 6           | 17.5       | 4.5 | 205     |
| 8   | 8           | 17.5       | 4.5 | 230     |
| 10  | 6           | 20.5       | 5.0 | 330     |
| 10  | 8           | 20.5       | 5.0 | 310     |
| 10  | 10          | 20.5       | 5.5 | 435     |
| 12  | 8           | 24.5       | 5.5 | 505     |
| 12  | 12          | 24.5       | 5.5 | 490     |
| 14  | 6           | 27.0       | 6.0 | 626     |
| 16  | 16          | 30.0       | 6.5 | 1079    |
| 18  | 8           | 32.0       | 7.0 | 1073    |
| 18  | 10          | 32.0       | 7.0 | 975     |
| 18  | 12          | 32.0       | 7.0 | 1015    |
| 18  | 16          | 32.0       | 7.0 | 1135    |
| 18  | 18          | 32.0       | 7.0 | 1130    |
| 20  | 10          | 35.0       | 8.0 | 1220    |
| 20  | 12          | 35.0       | 8.0 | 1260    |
| 20  | 16          | 35.0       | 8.0 | 1375    |
| 20  | 20          | 35.0       | 8.0 | 1525    |
| 24  | 24          | 40.5       | 9.0 | 2372    |

For sizes not found in this section check MJ-SSB DI fittings, pages 1 thru 8.

### CROSSES



ALL MJ



\*MJ x MJ x FE x FE

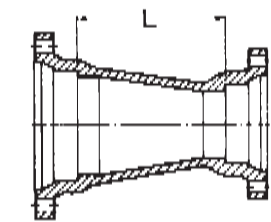
| Run | Size Branch | Dimensions |      | MJ   | Weights *MJxFE |
|-----|-------------|------------|------|------|----------------|
|     |             | X          | Y    |      |                |
| 6   | 6           | 8.0        | 8.0  | 160  | 141            |
| 8   | 4           | 9.0        | 9.0  | 185  | ...            |
| 8   | 6           | 9.0        | 9.0  | 205  | 182            |
| 8   | 8           | 9.0        | 9.0  | 255  | 245            |
| 10  | 6           | 11.0       | 11.0 | 285  | ...            |
| 10  | 8           | 11.0       | 11.0 | 310  | ...            |
| 10  | 10          | 11.0       | 11.0 | 380  | 360            |
| 12  | 6           | 12.0       | 12.0 | 361  | 367            |
| 12  | 8           | 12.0       | 12.0 | 371  | 373            |
| 12  | 12          | 12.0       | 12.0 | 486  | 487            |
| 14  | 8           | 14.0       | 14.0 | 550  | ...            |
| 14  | 14          | 14.0       | 14.0 | 779  | ...            |
| 16  | 6           | 15.0       | 15.0 | 650  | ...            |
| 16  | 8           | 15.0       | 15.0 | 675  | 655            |
| 16  | 16          | 15.0       | 15.0 | 895  | 875            |
| 18  | 8           | 13.0       | 15.5 | 775  | ...            |
| 18  | 10          | 13.0       | 15.5 | 760  | ...            |
| 18  | 12          | 13.0       | 15.5 | 860  | ...            |
| 18  | 18          | 16.5       | 16.5 | 1140 | ...            |
| 20  | 8           | 14.0       | 17.0 | 951  | ...            |
| 20  | 12          | 14.0       | 17.0 | 977  | ...            |
| 20  | 16          | 18.0       | 18.0 | 1245 | ...            |
| 20  | 20          | 18.0       | 18.0 | 1448 | ...            |
| 24  | 8           | 15.0       | 19.0 | 1244 | ...            |
| 24  | 12          | 15.0       | 19.0 | 1326 | ...            |
| 24  | 16          | 15.0       | 19.0 | 1479 | ...            |
| 24  | 20          | 22.0       | 22.0 | 1965 | ...            |
| 24  | 24          | 22.0       | 22.0 | 2192 | ...            |
| 30  | 6           | 18.0       | 23.0 | 2085 | ...            |
| 30  | 12          | 18.0       | 23.0 | 2165 | ...            |
| 30  | 24          | 25.0       | 25.0 | 3180 | ...            |
| 30  | 30          | 25.0       | 25.0 | 3640 | ...            |
| 36  | 36          | 28.0       | 28.0 | 4370 | ...            |

\* Not included in AWWA C110.

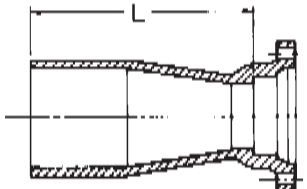
# Tyler/Union

## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

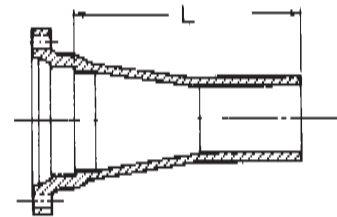
### REDUCERS



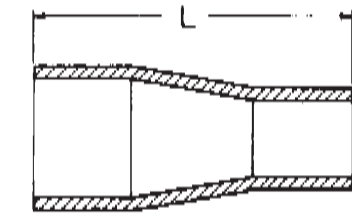
**MJ Reducer**



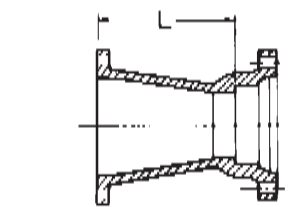
**MJ Small End Bell Re-**



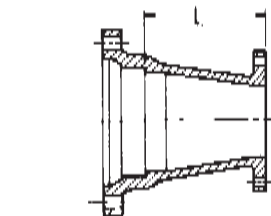
**MJ Large End Bell Re-**



**Plain End-Plain End Re-**



**FExMJ Reducer**



**MJxFE Reducer**

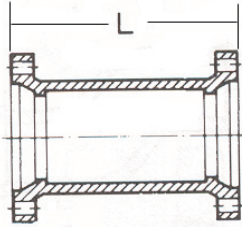
| Size   | Laying Lengths (L) |        |        |       |       |       | Weights |        |        |       |       |       |
|--------|--------------------|--------|--------|-------|-------|-------|---------|--------|--------|-------|-------|-------|
|        | MJ                 | MJ-SEB | MJ-LEB | PExPE | FExMJ | MJxFE | MJ      | MJ-SEB | MJ-LEB | PExPE | FExMJ | MJxFE |
| * 3x2  | 6                  | 14     | 14     | ...   | ...   | ...   | 24      | 24     | 24     | ...   | ...   | ...   |
| * 4x2  | 7                  | 15     | 15     | ...   | ...   | ...   | 31      | 30     | 31     | ...   | ...   | ...   |
| 4x3    | 7                  | 15     | 15     | 23    | 7     | 7     | 37      | 38     | 37     | 34    | 34    | 35    |
| * 6x2  | 9                  | 17     | 17     | ...   | ...   | ...   | 46      | 43     | 47     | ...   | ...   | ...   |
| 6x3    | 9                  | 17     | 17     | ...   | ...   | 9     | 55      | 50     | 55     | ...   | ...   | 50    |
| 6x4    | 9                  | 17     | 17     | 25    | 9     | 9     | 56      | 60     | 59     | 57    | 53    | 62    |
| 8x3    | 11                 | 19     | 19     | ...   | ...   | ...   | 84      | 77     | 70     | ...   | ...   | ...   |
| 8x4    | 11                 | 19     | 19     | ...   | 11    | 11    | 84      | 82     | 84     | ...   | 73    | 75    |
| 8x6    | 11                 | 19     | 19     | 27    | 11    | 11    | 94      | 90     | 93     | 96    | 84    | 80    |
| 10x6   | 12                 | 20     | 20     | ...   | 12    | 12    | 115     | 116    | 117    | ...   | 100   | 105   |
| 10x8   | 12                 | 20     | 20     | 28    | 12    | 12    | 142     | 135    | 130    | 135   | 130   | 130   |
| 12x4   | 14                 | 22     | 22     | ...   | ...   | ...   | 139     | 131    | ...    | ...   | ...   | ...   |
| 12x6   | 14                 | 22     | 22     | ...   | 14    | 12    | 148     | 150    | 153    | ...   | 145   | 130   |
| 12x8   | 14                 | 22     | 22     | 30    | 14    | 12    | 173     | 168    | 165    | 168   | 170   | 175   |
| 12x10  | 14                 | 22     | 22     | 30    | 14    | 12    | 194     | 190    | 178    | 185   | 188   | 190   |
| 14x6   | ...                | ...    | ...    | ...   | ...   | 16    | ...     | ...    | ...    | ...   | ...   | 195   |
| 14x8   | ...                | ...    | ...    | ...   | ...   | 16    | ...     | ...    | ...    | ...   | ...   | 215   |
| 14x12  | ...                | ...    | ...    | ...   | ...   | 16    | ...     | ...    | ...    | ...   | ...   | 270   |
| 16x6   | 18                 | ...    | ...    | ...   | ...   | ...   | 250     | ...    | ...    | ...   | ...   | ...   |
| 16x8   | 18                 | 26     | ...    | ...   | ...   | ...   | 288     | 248    | ...    | ...   | ...   | ...   |
| 16x10  | 18                 | ...    | ...    | ...   | ...   | ...   | 300     | ...    | ...    | ...   | ...   | ...   |
| 16x12  | 18                 | 26     | 26     | ...   | 18    | 18    | 330     | 304    | 325    | ...   | 305   | 325   |
| 16x14  | 18                 | ...    | ...    | ...   | ...   | ...   | 370     | ...    | ...    | ...   | ...   | ...   |
| 18x8   | 19                 | ...    | ...    | ...   | ...   | 19    | 320     | ...    | ...    | ...   | ...   | 300   |
| 18x10  | 19                 | ...    | ...    | ...   | ...   | ...   | 388     | ...    | ...    | ...   | ...   | ...   |
| 18x12  | 19                 | 27     | ...    | ...   | ...   | 19    | 380     | 355    | ...    | ...   | ...   | 405   |
| 18x14  | 19                 | ...    | ...    | ...   | ...   | ...   | 450     | ...    | ...    | ...   | ...   | ...   |
| 18x16  | 19                 | ...    | ...    | ...   | ...   | 19    | 476     | ...    | ...    | ...   | ...   | 445   |
| 20x10  | 20                 | ...    | ...    | ...   | ...   | ...   | 410     | ...    | ...    | ...   | ...   | ...   |
| 20x12  | 20                 | 28     | ...    | ...   | ...   | ...   | 515     | 420    | ...    | ...   | ...   | ...   |
| 20x16  | 20                 | 28     | 28     | ...   | ...   | 20    | 578     | 525    | 510    | ...   | ...   | 510   |
| 20x18  | 20                 | ...    | ...    | ...   | ...   | ...   | 575     | ...    | ...    | ...   | ...   | ...   |
| 24x12  | 24                 | 32     | ...    | ...   | ...   | 24    | 610     | 570    | ...    | ...   | ...   | 455   |
| 24x16  | 24                 | 32     | 32     | ...   | ...   | ...   | 705     | 665    | 753    | ...   | ...   | ...   |
| 24x18  | 24                 | 32     | ...    | ...   | ...   | ...   | 789     | 720    | ...    | ...   | ...   | ...   |
| 24x20  | 24                 | 32     | 32     | ...   | ...   | ...   | 815     | 775    | 804    | ...   | ...   | ...   |
| *30x16 | 30                 | 38     | ...    | 46    | ...   | ...   | 1150    | 1040   | ...    | 1015  | ...   | ...   |
| 30x18  | 30                 | 38     | ...    | 46    | ...   | ...   | 1160    | 1050   | ...    | 1025  | ...   | ...   |
| 30x20  | 30                 | 38     | ...    | 46    | ...   | ...   | 1225    | 1120   | ...    | 1090  | ...   | ...   |
| 30x24  | 30                 | 38     | 38     | 46    | ...   | ...   | 1360    | 1255   | 1320   | 1215  | ...   | ...   |
| 36x20  | 36                 | ...    | 44     | ...   | ...   | ...   | 1495    | ...    | 1466   | ...   | ...   | ...   |
| 36x24  | 36                 | ...    | 44     | 52    | ...   | ...   | 1580    | ...    | 1535   | 1389  | ...   | ...   |
| 36x30  | 36                 | 44     | ...    | 52    | ...   | ...   | 1919    | 1721   | ...    | 1585  | ...   | ...   |

\* Not included in AWWA C110

# Tyler/Union

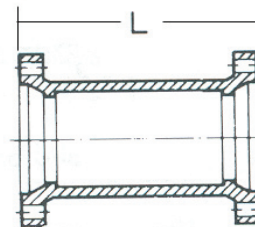
## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

### SOLID SLEEVES



**Standard**

| Size | Pipe O.D. | Short |        | Long |        |
|------|-----------|-------|--------|------|--------|
|      |           | L     | Weight | L    | Weight |
| *2   | 2.50      | 8.0   | 13     | 12   | 18     |
| 3    | 3.96      | 7.5   | ...    | 12   | 36     |
| 4    | 4.80      | 7.5   | 35     | 12   | 47     |
| 6    | 6.90      | 7.5   | 45     | 12   | 65     |
| 8    | 9.05      | 7.5   | 65     | 12   | 90     |
| 10   | 11.10     | 7.5   | 85     | 12   | 115    |
| 12   | 13.20     | 7.5   | 120    | 12   | 136    |
| 16   | 17.40     | 9.5   | 206    | 15   | 281    |
| 18   | 19.50     | 9.5   | 246    | 15   | 362    |
| 20   | 21.60     | 9.5   | 275    | 15   | 404    |
| 24   | 25.80     | 9.5   | 360    | 15   | 540    |
| 30   | 32.00     | 15.0  | 745    | 24   | 1085   |
| 36   | 38.30     | 15.0  | 1047   | 24   | 1502   |



**\* Dual Purpose †**

| Size | Pipe O.D.   | Short |        | Long |        |
|------|-------------|-------|--------|------|--------|
|      |             | L     | Weight | L    | Weight |
| 4    | 4.80/5.00   | 7.5   | 33     | 12   | 44     |
| 6    | 6.90/7.10   | 7.5   | 46     | 12   | 63     |
| 8    | 9.05/9.30   | 7.5   | 65     | 12   | 88     |
| 10   | 11.10/11.40 | ...   | ...    | 12   | 111    |
| †12  | 13.20/13.50 | ...   | ...    | 12   | 221    |
| †16  | 17.40/17.80 | ...   | ...    | 15   | 385    |

All Sizes Use MJ Dual Purpose Gland

\* Not included in AWWA C110

† 12" & 16" are sold assembled

NOTE: Sizes 4-10" use standard MJ Gaskets; 12" and 16" require special duo gaskets.

\* Not included in AWWA C110

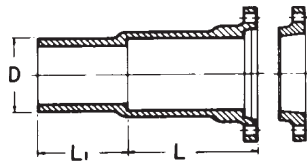
### \* MJ x PE DUAL-PURPOSE CUTTING-IN SLEEVE

With Dual-Purpose Accessories

(NOTES: Gland with cup-joint set screws available at extra cost when specified. NOT FOR RESTRAINT.)

Currently, Tyler and Union Dual Purpose Glands are NOT interchangeable.

Cutting-In Sleeve & Gland



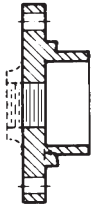
| Size | For Use On Pipe O.D. | L  | L' | D     | Weight     |                |
|------|----------------------|----|----|-------|------------|----------------|
|      |                      |    |    |       | Gland Only | Gland & Sleeve |
| 4    | 4.80 - 5.00          | 12 | 8  | 4.80  | 6.0        | 72             |
| 6    | 6.90 - 7.10          | 12 | 8  | 6.90  | 10.0       | 94             |
| 8    | 9.05 - 9.30          | 12 | 8  | 9.05  | 16.0       | 122            |
| 10   | 11.10 - 11.40        | 12 | 8  | 11.10 | 25.0       | 175            |
| 12   | 13.20 - 13.50        | 12 | 8  | 13.20 | 30.0       | 235            |

\* Not included in AWWA C110.

# Tyler/Union

## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

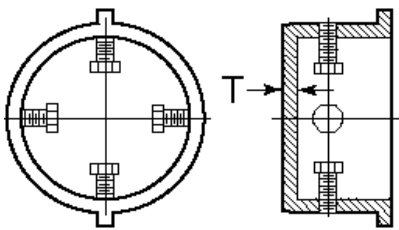
### PLUGS



#### Solid or Tapped

| Size | Tap | Weight |        |
|------|-----|--------|--------|
|      |     | Solid  | Tapped |
| *2   | 2   | 5      | 5      |
| 3    | 2   | 9      | 9      |
| 4    | 2   | 13     | 14     |
| 6    | 2   | 15     | 15     |
| 8    | 2   | 45     | 45     |
| 10   | 2   | 66     | 66     |
| 12   | 2   | 79     | 79     |
| 14   | 2   | 120    | 120    |
| 16   | 2   | 147    | 147    |
| †18  | 2   | 192    | 190    |
| †20  | 2   | 220    | 219    |
| †24  | 2   | 338    | 338    |
| †30  | 2   | 660    | 660    |
| †36  | 2   | 838    | 838    |

† Dished – Not flat as shown.  
\* Not included in AWWA C110.

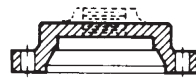


#### TYTON® Plug\*\* Solid or Tapped

| Size | Tap | T   | Weight* |
|------|-----|-----|---------|
| 4    | 2   | .60 | 18      |
| 6    | 2   | .65 | 25      |
| 8    | 2   | .70 | 46      |
| 10   | 2   | .75 | 70      |
| 12   | 2   | .75 | 95      |

\* Weights do not include accessories  
\*\* Not included in AWWA C110.  
TYTON® is a registered trademark of U.S. Pipe and Foundry Company.

### CAPS

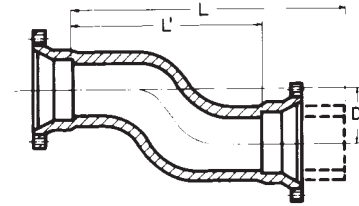


#### Solid or Tapped

| Size | Tap | Weight |        |
|------|-----|--------|--------|
|      |     | Solid  | Tapped |
| *2   | 2   | 6      | ...    |
| 3    | 2   | 10     | 10     |
| 4    | 2   | 18     | 13     |
| 6    | 2   | 34     | 30     |
| 8    | 2   | 46     | 45     |
| 10   | 2   | 58     | 54     |
| 12   | 2   | 86     | 80     |
| 16   | 2   | 178    | 175    |
| †18  | 2   | 215    | 215    |
| †20  | 2   | 250    | 249    |
| †24  | 2   | 370    | 370    |
| †30  | 2   | 680    | 680    |
| †36  | 2   | 850    | 850    |

† Dished – Not flat as shown.  
\* Not included in AWWA C110.

### OFFSETS

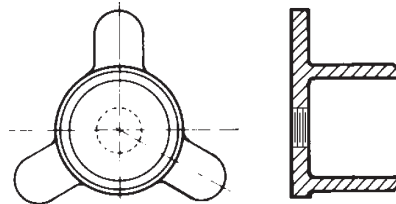


#### MJ x MJ

#### MJ x PE

| Size | D  | Dimensions     |    | Weights |       |
|------|----|----------------|----|---------|-------|
|      |    | L <sup>1</sup> | L  | MJxMJ   | MJxPE |
| 4    | 6  | 19             | 27 | ...     | 82    |
| 4    | 12 | 22             | 30 | 85      | 80    |
| 4    | 18 | 30             | 38 | 105     | ...   |
| * 4  | 24 | 26             | 34 | 126     | 125   |
| 6    | 6  | 20             | 28 | 114     | 105   |
| 6    | 12 | 26             | 34 | 148     | 143   |
| 6    | 18 | 33             | 41 | 188     | 176   |
| * 6  | 24 | 24             | 32 | 182     | 160   |
| 8    | 6  | 21             | 29 | 177     | 155   |
| 8    | 12 | 28             | 36 | 231     | 195   |
| 8    | 18 | 35             | 43 | 287     | 282   |
| * 8  | 24 | 36             | 44 | 280     | 285   |
| 10   | 12 | 30             | 38 | 347     | 280   |
| 10   | 18 | 38             | 46 | 340     | 340   |
| 10   | 24 | 38             | 46 | 420     | ...   |
| 12   | 12 | 37             | 45 | 420     | 420   |
| 12   | 18 | 48             | 56 | 520     | 520   |
| *12  | 24 | 48             | 56 | 649     | 630   |
| 16   | 12 | 40             | 48 | 715     | ...   |
| 16   | 18 | 50             | 58 | 850     | 830   |
| *20  | 12 | 40             | 48 | 1025    | ...   |
| *20  | 18 | 48             | 60 | 1362    | ...   |

\* Not included in AWWA C110.



#### Solid

#### Tapped

Push-In Plug with Ears  
(To be used with all push-in pipe and fittings)

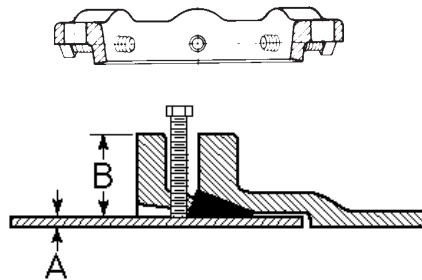
| Size | Tap | Weight |
|------|-----|--------|
| 14   | 2.0 | 101    |
| 16   | 2.0 | 137    |
| 18   | 2.0 | 177    |
| †20  | 2.0 | 239    |
| †24  | 2.0 | 311    |

† Dished - Not flat as shown  
NOTE: Blocking still required—ears for assembly only.

# Tyler/Union

## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS

### \*RETAINER GLAND ASSEMBLY



See Installations Instructions..... Page 49

| Size | Pressure Rating, psi | Gland O.D. B | Pipe O.D. O.D. A | D.I. Pipe Wall Class | No of Set Screws | Size of Set Screws | Gland Weight | Weight w/Access. |
|------|----------------------|--------------|------------------|----------------------|------------------|--------------------|--------------|------------------|
| 3    | 350                  | 7.69         | 3.96             | 50-56                | 4                | 5/8x2              | 4            | 8                |
| 4    | 350                  | 9.12         | 4.80             | 50-56                | 4                | 5/8x2              | 5            | 11               |
| 6    | 350                  | 11.12        | 6.90             | 50-56                | 6                | 5/8x2              | 9            | 16               |
| 8    | 250                  | 13.37        | 9.05             | 50-56                | 9                | 5/8x2              | 13           | 21               |
| 10   | 250                  | 15.62        | 11.10            | 50-56                | 12               | 5/8x2              | 17           | 26               |
| 12   | 150                  | 17.88        | 13.20            | 50-56                | 16               | 5/8x2              | 20           | 28               |
| 14   | 250                  | 20.25        | 15.30            | 53-56                | 20               | 5/8x2 1/2          | 44           | 55               |
| 16   | 200                  | 22.50        | 17.40            | 53-56                | 24               | 5/8x2 1/2          | 54           | 64               |
| 18   | 200                  | 24.75        | 19.50            | 53-56                | 24               | 5/8x2 1/2          | 62           | 72               |
| 20   | 200                  | 27.00        | 21.60            | 53-56                | 28               | 5/8x3              | 76           | 91               |
| 24   | 150                  | 31.50        | 25.80            | 53-56                | 32               | 5/8x3              | 103          | 118              |

\* Not included in AWWA C110

Pipe Wall Thickness:

Sizes 3"-12" are recommended for ductile iron pipe class 50 thru 56. Sizes 14" thru 24" are recommended for ductile iron pipe class 53 thru 56.

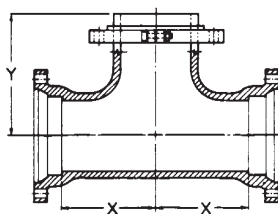
### DUCTILE IRON RETAINER GLANDS

Mechanical Joint Retainer Glands are designed to provide a method for restraining mechanical joint pipe and fittings and other standardized mechanical joints against possible joint separation, rupture or blow-out caused by internal water pressure.

The set screws are square-headed with Type C knurled cup points, and are shipped already assembled in the Glands. They are manufactured of 4140 grade alloy steel, and are heat treated to a Rock-wall "C" 45/53 case hardness. Tee-head bolts and gaskets are not included, but may be ordered separately. Recommended torque for set screws is 75 foot pounds, and set screws on opposite sides of the glands should be tightened alternately.

Tee-head bolt hole size and spacing are equal to MJ Glands as shown in AWWA C-111. Standard mechanical Joint gaskets as shown in C-111 should be used.

### TEES



MJ x MJ x Swivel

| Size | Dimensions |      | Weight |
|------|------------|------|--------|
|      | X          | Y    |        |
| 6    | 8.0        | 10.5 | 150    |
| 8x6  | 9.0        | 11.5 | 199    |
| 8    | 9.0        | 11.5 | 210    |
| 10x6 | 11.0       | 13.5 | 267    |
| 12x6 | 12.0       | 14.5 | 346    |
| 16x6 | 15.0       | 17.5 | 619    |
| 16x8 | 15.0       | 17.5 | 649    |
| 30x6 | 18.0       | 24.5 | 2070   |

All weights shown include the Swivel Gland

### MJ GLAND

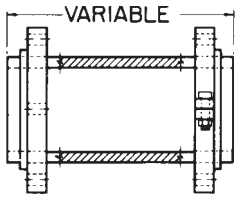


| Size | Weight         |            |
|------|----------------|------------|
|      | Gland Wt. Pack | Gland Only |
| 2    | 5              | 3          |
| 3    | 7              | 4          |
| 4    | 10             | 6          |
| 6    | 16             | 10         |
| 8    | 25             | 16         |
| 10   | 30             | 19         |
| 12   | 40             | 26         |
| 14   | 45             | 34         |
| 16   | 55             | 54         |
| 18   | 65             | 52         |
| 20   | 85             | 73         |
| 24   | 105            | 91         |
| 30   | 220            | 90         |
| 36   | 301            | 127        |

# Tyler/Union

## DUCTILE IRON C110 FULL BODY MECHANICAL JOINT ELLS, ADAPTERS AND GLANDS For Valve and Hydrant Connections

### ADAPTERS



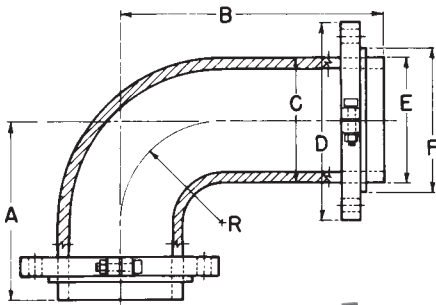
#### Swivel x Solid Adapter

| Size by Laying Length | Wall Thickness | Weight* |
|-----------------------|----------------|---------|
| 4x13                  | .52            | 52      |
| 6x12                  | .55            | 84      |
| 6x18                  | .55            | 91      |
| 6x24                  | .55            | 105     |
| 6x36                  | .55            | 156     |
| 8x13                  | .60            | 126     |
| 12x13                 | .75            | 186     |

\*Weights with Gland.

Other Swivel Hydrant Fittings, Pages 2, 3 and 4.

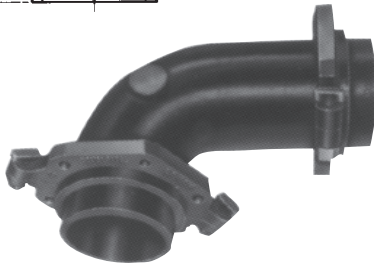
### ELLS



#### \*90° Swivel x Swivel Ell (Not Included In AWWA C110)

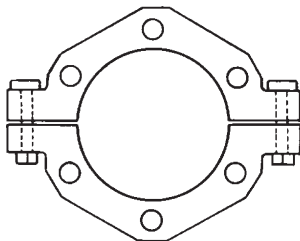
| Size | Wall Thickness | Dimensions |      |      |       |      |       |     |         |
|------|----------------|------------|------|------|-------|------|-------|-----|---------|
|      |                | A          | B    | C    | D     | E    | F     | R   | *Weight |
| 6    | .55            | 10.5       | 15.5 | 7.10 | 11.12 | 6.90 | 8.02  | 6.0 | 106     |
| 8    | .60            | 11.5       | 16.5 | 9.20 | 13.37 | 9.05 | 10.17 | 7.0 | 156     |

\* With 2 Swivel Glands



### SWIVEL GLAND ASSEMBLY

Used with swivel fittings, the TYLER Swivel Gland, with its rotating feature, permits the installer to meet any grade requirements regardless of bolt-hole alignment. In addition, the system permits stiff connections without braces, blocking or strapping.



#### Swivel Glands\*\*

| Size | Weight |
|------|--------|
| 12   | 30     |

\*\* Not included in AWWA C110.

NOTE: When ordering glands separately,  
(1) Specify TYLER UPC Code Number,  
(2) Description, and  
(3) Size of fitting to be joined.