

Century

Valves & Hydrants

MECHANICAL JOINT FITTINGS

DUCTILE IRON A536
AWWA C153 Compact Body
AWWA C110 Full Body

Century Mechanical Joint (MJ) Fittings

Century Valves & Hydrants manufactures high-strength ductile iron Mechanical Joint fittings designed for use in both waterworks and industrial systems. All products meet or exceed applicable industry standards.

All fittings are produced in compliance with ANSI standards, AWWA and ANSI B16.1, Class 125, and are available in sizes 3" to 48".

Each fitting is hydrostatically tested to 1.5 times its rated working pressure to confirm casting strength and quality.

- **AWWA C110 (ANSI A21.10): FULL BODY**

Ductile iron fittings, sizes 18"-48", suitable for water and other liquids.

Pressure Rating: 250 PSI Working Pressure (Class 250), 350 PSI Water Working Pressure (Class 350)

- **AWWA C153 (ANSI A21.53): COMPACT BODY**

Compact-body construction eliminates unnecessary straight sections, resulting in a lighter, more compact fitting while maintaining strength and flow performance.

Ductile iron fittings, sizes 3"-48", for water and other liquids.

Pressure Rating: 350 PSI Water Working Pressure (Class 350)

Material

- All fittings are made of high strength Ductile Iron per ASTM A536, Grade 65-45-12 (compact Body) or 70-50-5 (Full Body).

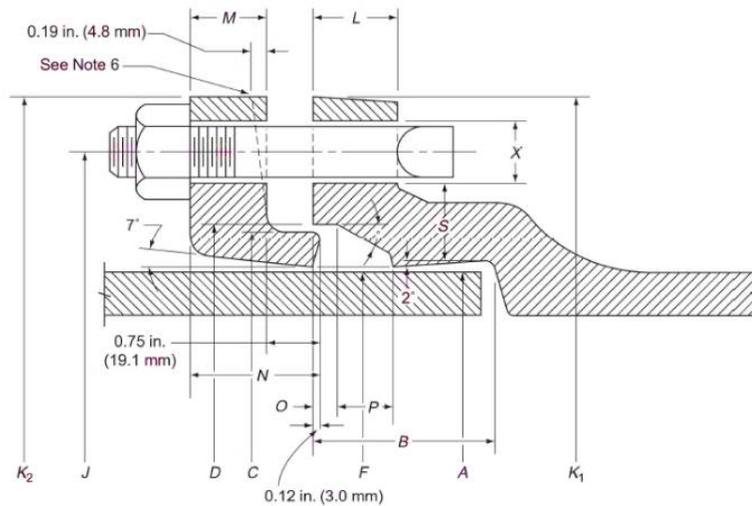
Interior Linings

- Lining per AWWA C104 (ANSI A21.4)
- Special linings are available upon request for particular service environments.

Exterior Coatings

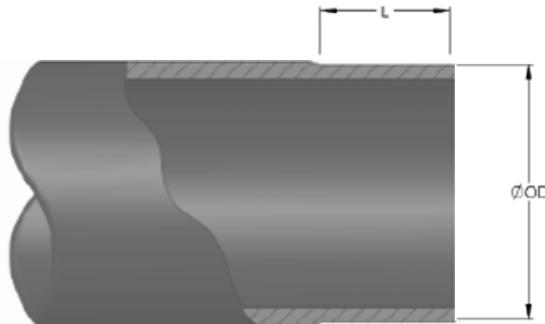
- Bituminous coating applied in accordance with AWWA C104 (ANSI A21.4).
- Special linings are available upon request for particular service environments.

Mechanical Joint Dimensions ANSI/AWWA C110/A21.10 - C153/A21.53

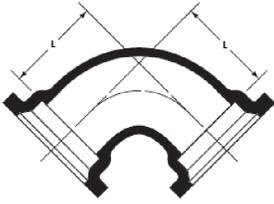


| SIZE | A | B | J | X | K2 | K1 | AWWA C110 | | AWWA C153 | | BOLTS | | | | OD | L |
|------|-------|------|-------|-------|-------|-------|-----------|------|-----------|------|-------|-------|--------|--------|-------|-----|
| | | | | | | | M | L | M | L | No. | SIZE | L C110 | L C153 | | |
| 2" | 2.50 | 2.50 | 4.75 | 3/4 | 6.25 | 6.19 | 0.62 | 0.75 | 0.62 | 0.58 | 2 | 5/8 | 3 | 3 | 2.50 | 5.5 |
| 3" | 3.96 | 2.50 | 6.19 | 3/4 | 7.69 | 7.69 | 0.62 | 0.94 | 0.62 | 0.58 | 4 | 5/8 | 3 | 3 | 3.96 | 5.5 |
| 4" | 4.80 | 2.50 | 7.50 | 7/8 | 9.12 | 9.12 | 0.75 | 1.00 | 0.75 | 0.60 | 4 | 3/4 | 3 1/2 | 3 1/2 | 4.80 | 5.5 |
| 6" | 6.90 | 2.50 | 9.50 | 7/8 | 11.12 | 11.12 | 0.88 | 1.06 | 0.88 | 0.63 | 6 | 3/4 | 3 1/2 | 3 1/2 | 6.90 | 5.5 |
| 8" | 9.05 | 2.50 | 11.75 | 7/8 | 13.37 | 13.37 | 1.00 | 1.12 | 1.00 | 0.66 | 6 | 3/4 | 4 | 3 1/2 | 9.05 | 5.5 |
| 10" | 11.10 | 2.50 | 14.00 | 7/8 | 15.62 | 15.69 | 1.00 | 1.19 | 1.00 | 0.70 | 8 | 3/4 | 4 | 3 1/2 | 11.10 | 5.5 |
| 12" | 13.20 | 2.50 | 16.25 | 7/8 | 17.88 | 17.94 | 1.00 | 1.25 | 1.00 | 0.73 | 8 | 3/4 | 4 | 3 1/2 | 13.20 | 5.5 |
| 14" | 15.30 | 3.50 | 18.75 | 7/8 | 20.25 | 20.31 | 1.25 | 1.31 | 1.25 | 0.79 | 10 | 3/4 | 4 1/2 | 4 | 15.30 | 8.0 |
| 16" | 17.40 | 3.50 | 21.00 | 7/8 | 22.50 | 22.56 | 1.31 | 1.38 | 1.31 | 0.85 | 12 | 3/4 | 4 1/2 | 4 | 17.40 | 8.0 |
| 18" | 19.50 | 3.50 | 23.25 | 7/8 | 24.75 | 24.83 | 1.38 | 1.44 | 1.38 | 1.00 | 12 | 3/4 | 4 1/2 | 4 | 19.50 | 8.0 |
| 20" | 21.60 | 3.50 | 25.50 | 7/8 | 27.00 | 27.08 | 1.44 | 1.50 | 1.44 | 1.02 | 14 | 3/4 | 4 1/2 | 4 | 21.60 | 8.0 |
| 24" | 25.80 | 3.50 | 30.00 | 7/8 | 31.50 | 31.58 | 1.56 | 1.62 | 1.56 | 1.02 | 16 | 3/4 | 5 | 4 1/2 | 25.80 | 8.0 |
| 30" | 32.00 | 4.00 | 36.88 | 1 1/8 | 39.12 | 39.12 | 2.00 | 1.81 | 2.00 | 1.31 | 20 | 1 | 6 | 5 1/2 | 32.00 | 8.0 |
| 36" | 38.30 | 4.00 | 42.75 | 1 1/8 | 46.00 | 46.00 | 2.00 | 2.00 | 2.00 | 1.45 | 24 | 1 | 6 | 5 1/2 | 38.30 | 8.0 |
| 42" | 44.50 | 4.00 | 50.62 | 1 3/8 | 53.12 | 53.12 | 2.00 | 2.00 | 2.00 | 1.45 | 28 | 1 1/4 | 6 | 6 | 44.50 | 8.0 |
| 48" | 50.80 | 4.00 | 57.60 | 1 3/8 | 60.00 | 60.00 | 2.00 | 2.00 | 2.00 | 1.45 | 32 | 1 1/4 | 6 | 6 | 50.80 | 8.0 |

Dimensions in inches.



BENDS, 1/4 (90°)

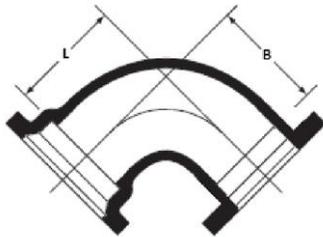


| AWWA C153 - COMPACT BODY | | | | | | AWWA C110 - FULL BODY | | | | |
|--------------------------|----------------|-------|------|------------|-----------|-----------------------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) |
| 2" | CB-EL-M-90-120 | 3.25 | 0.30 | 14 | 6 | | | | | |
| 3" | CB-EL-M-90-130 | 3.50 | 0.33 | 19 | 9 | | | | | |
| 4" | CB-EL-M-90-140 | 4.00 | 0.34 | 25 | 11 | | | | | |
| 6" | CB-EL-M-90-160 | 5.00 | 0.36 | 39 | 18 | | | | | |
| 8" | CB-EL-M-90-180 | 6.50 | 0.38 | 57 | 26 | | | | | |
| 10" | CB-EL-M-90-200 | 7.50 | 0.40 | 89 | 40 | | | | | |
| 12" | CB-EL-M-90-220 | 9.00 | 0.42 | 108 | 49 | | | | | |
| 14" | CB-EL-M-90-240 | 11.50 | 0.47 | 210 | 95 | | | | | |
| 16" | CB-EL-M-90-260 | 12.50 | 0.50 | 264 | 120 | | | | | |
| 18" | CB-EL-M-90-280 | 14.00 | 0.54 | 335 | 152 | FB-EL-M-90-280 | 16.5 | 0.75 | 545 | 247 |
| 20" | CB-EL-M-90-300 | 15.00 | 0.57 | 400 | 181 | FB-EL-M-90-300 | 18.0 | 0.80 | 680 | 308 |
| 24" | CB-EL-M-90-340 | 16.75 | 0.61 | 565 | 256 | FB-EL-M-90-340 | 22.0 | 0.89 | 1025 | 465 |
| 30" | CB-EL-M-90-400 | 21.50 | 0.66 | 930 | 422 | FB-EL-M-90-400 | 25.0 | 1.03 | 1690 | 767 |
| 36" | CB-EL-M-90-460 | 24.50 | 0.74 | 1450 | 658 | FB-EL-M-90-460 | 28.0 | 1.15 | 2475 | 1123 |
| 42" | CB-EL-M-90-520 | 29.25 | 0.82 | 2205 | 1000 | FB-EL-M-90-520 | 31.0 | 1.28 | 3410 | 1547 |
| 48" | CB-EL-M-90-580 | 33.25 | 0.90 | 2990 | 1356 | FB-EL-M-90-580 | 34.0 | 1.42 | 4595 | 2084 |

Dimensions in inches.

BENDS, 1/4 (90°)

MJ x FL

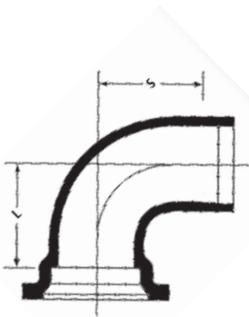


| AWWA C153 - COMPACT BODY | | | | | | |
|--------------------------|-----------------|------|-------|------|------------|-----------|
| SIZE | PART NUMBER | L | B | T | Wgt. (Lbs) | Wgt. (Kg) |
| 3" | CB-EL-MF-90-130 | 3.50 | 5.50 | 0.33 | 20 | 9 |
| 4" | CB-EL-MF-90-140 | 4.00 | 6.50 | 0.34 | 26 | 12 |
| 6" | CB-EL-MF-90-160 | 5.00 | 8.00 | 0.36 | 47 | 21 |
| 8" | CB-EL-MF-90-180 | 6.50 | 9.00 | 0.38 | 68 | 31 |
| 10" | CB-EL-MF-90-200 | 7.50 | 11.00 | 0.40 | 102 | 46 |
| 12" | CB-EL-MF-90-220 | 9.00 | 12.00 | 0.42 | 134 | 61 |

Dimensions in inches.

BENDS

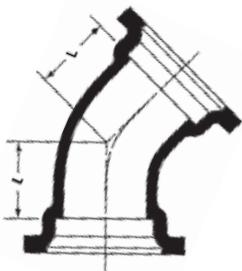
BENDS, 1/4 (90°) MJ x PE



| AWWA C153 - COMPACT BODY | | | | | | | AWWA C110 - FULL BODY | | | | | |
|--------------------------|-----------------|-------|-------|------|------------|-----------|-----------------------|------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) |
| 3" | CB-EL-MP-90-130 | 3.50 | 8.50 | 0.33 | 16 | 7 | | | | | | |
| 4" | CB-EL-MP-90-140 | 4.00 | 9.50 | 0.34 | 22 | 10 | | | | | | |
| 6" | CB-EL-MP-90-160 | 5.00 | 11.50 | 0.36 | 41 | 19 | | | | | | |
| 8" | CB-EL-MP-90-180 | 6.50 | 12.50 | 0.38 | 58 | 26 | | | | | | |
| 10" | CB-EL-MP-90-200 | 7.50 | 13.00 | 0.40 | 83 | 38 | | | | | | |
| 12" | CB-EL-MP-90-220 | 9.00 | 14.50 | 0.42 | 114 | 52 | | | | | | |
| 14" | CB-EL-MP-90-240 | 11.50 | 19.50 | 0.47 | 197 | 89 | | | | | | |
| 16" | CB-EL-MP-90-260 | 12.50 | 20.50 | 0.50 | 248 | 112 | | | | | | |
| 18" | CB-EL-MP-90-280 | 14.00 | 21.00 | 0.54 | 325 | 147 | FB-EL-MP-90-280 | 16.5 | 24.5 | 0.75 | 520 | 236 |
| 20" | CB-EL-MP-90-300 | 15.00 | 22.50 | 0.57 | 390 | 177 | FB-EL-MP-90-300 | 18.0 | 26.0 | 0.80 | 650 | 295 |
| 24" | CB-EL-MP-90-340 | 16.75 | 25.00 | 0.61 | 575 | 261 | FB-EL-MP-90-340 | 22.0 | 30.0 | 0.89 | 985 | 447 |
| 30" | CB-EL-MP-90-400 | 21.50 | 30.50 | 0.66 | 865 | 392 | FB-EL-MP-90-400 | 25.0 | 33.0 | 1.03 | 1585 | 719 |
| 36" | CB-EL-MP-90-460 | 24.50 | 33.50 | 0.74 | 1355 | 615 | FB-EL-MP-90-460 | 28.0 | 36.0 | 1.15 | 2310 | 1048 |
| 42" | CB-EL-MP-90-520 | 29.25 | 38.25 | 0.82 | 2055 | 932 | FB-EL-MP-90-520 | 31.0 | 39.0 | 1.28 | 3200 | 1451 |
| 48" | CB-EL-MP-90-580 | 33.25 | 42.25 | 0.90 | 2805 | 1272 | FB-EL-MP-90-580 | 34.0 | 42.0 | 1.42 | 4330 | 1964 |

Dimensions in inches.

BENDS, 1/8 (45°)



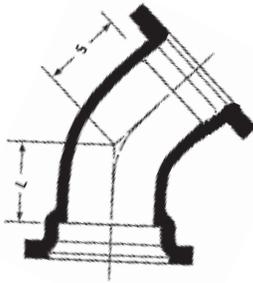
| AWWA C153 - COMPACT BODY | | | | | | AWWA C110 - FULL BODY | | | | |
|--------------------------|----------------|-------|------|------------|-----------|-----------------------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) |
| 2" | CB-EL-M-45-120 | 1.50 | | 13 | 6 | | | | | |
| 3" | CB-EL-M-45-130 | 1.80 | 0.33 | 16 | 7 | | | | | |
| 4" | CB-EL-M-45-140 | 2.00 | 0.34 | 22 | 10 | | | | | |
| 6" | CB-EL-M-45-160 | 3.00 | 0.36 | 32 | 15 | | | | | |
| 8" | CB-EL-M-45-180 | 3.50 | 0.38 | 46 | 21 | | | | | |
| 10" | CB-EL-M-45-200 | 4.50 | 0.40 | 70 | 32 | | | | | |
| 12" | CB-EL-M-45-220 | 5.50 | 0.42 | 86 | 39 | | | | | |
| 14" | CB-EL-M-45-240 | 5.00 | 0.47 | 160 | 73 | | | | | |
| 16" | CB-EL-M-45-260 | 5.50 | 0.50 | 202 | 92 | | | | | |
| 18" | CB-EL-M-45-280 | 6.00 | 0.54 | 250 | 113 | FB-EL-M-45-280 | 8.50 | 0.75 | 420 | 191 |
| 20" | CB-EL-M-45-300 | 7.00 | 0.57 | 305 | 138 | FB-EL-M-45-300 | 9.50 | 0.80 | 530 | 240 |
| 24" | CB-EL-M-45-340 | 7.50 | 0.61 | 405 | 184 | FB-EL-M-45-340 | 11.0 | 0.89 | 755 | 342 |
| 30" | CB-EL-M-45-400 | 10.50 | 0.66 | 780 | 354 | FB-EL-M-45-400 | 15.0 | 1.03 | 1380 | 626 |
| 36" | CB-EL-M-45-460 | 11.50 | 0.74 | 1135 | 515 | FB-EL-M-45-460 | 18.0 | 1.15 | 2095 | 950 |
| 42" | CB-EL-M-45-520 | 14.00 | 0.82 | 1610 | 730 | FB-EL-M-45-520 | 21.0 | 1.28 | 2955 | 1340 |
| 48" | CB-EL-M-45-580 | 15.00 | 0.90 | 2090 | 948 | FB-EL-M-45-580 | 24.0 | 1.42 | 4080 | 1851 |

Dimensions in inches.

BENDS

BENDS, 1/8 (45°)

MJ x FL

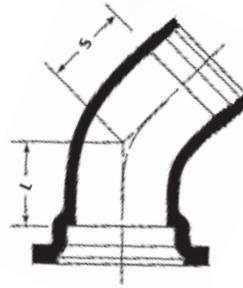


| AWWA C153 – COMPACT BODY | | | | | | |
|--------------------------|-----------------|------|-------|------|------------|-----------|
| SIZE | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) |
| 3" | CB-EL-MF-45-130 | 1.80 | 7.00 | 0.33 | 17 | 8 |
| 4" | CB-EL-MF-45-140 | 2.00 | 7.50 | 0.34 | 26 | 12 |
| 6" | CB-EL-MF-45-160 | 3.00 | 8.50 | 0.36 | 47 | 21 |
| 8" | CB-EL-MF-45-180 | 3.50 | 9.00 | 0.38 | 68 | 31 |
| 10" | CB-EL-MF-45-200 | 4.50 | 10.00 | 0.40 | 102 | 46 |
| 12" | CB-EL-MF-45-220 | 5.50 | 11.00 | 0.42 | 134 | 61 |

Dimensions in inches.

BENDS, 1/8 (45°)

MJ x PE

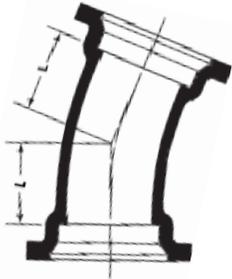


| AWWA C153 – COMPACT BODY | | | | | | | AWWA C110 – FULL BODY | | | | | |
|--------------------------|-----------------|-------|-------|------|------------|-----------|-----------------------|------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) |
| 3" | CB-EL-MP-45-130 | 1.80 | 7.00 | 0.33 | 13 | 6 | | | | | | |
| 4" | CB-EL-MP-45-140 | 2.00 | 7.50 | 0.34 | 19 | 9 | | | | | | |
| 6" | CB-EL-MP-45-160 | 3.00 | 8.50 | 0.36 | 34 | 15 | | | | | | |
| 8" | CB-EL-MP-45-180 | 3.50 | 9.00 | 0.38 | 49 | 22 | | | | | | |
| 10" | CB-EL-MP-45-200 | 4.50 | 10.00 | 0.40 | 69 | 31 | | | | | | |
| 12" | CB-EL-MP-45-220 | 5.50 | 11.00 | 0.42 | 93 | 42 | | | | | | |
| 14" | CB-EL-MP-45-240 | 5.00 | 13.00 | 0.47 | 146 | 66 | | | | | | |
| 16" | CB-EL-MP-45-260 | 5.50 | 13.50 | 0.50 | 184 | 83 | | | | | | |
| 18" | CB-EL-MP-45-280 | 6.00 | 13.00 | 0.54 | 135 | 61 | FB-EL-MP-45-280 | 8.50 | 16.5 | 0.75 | 395 | 179 |
| 20" | CB-EL-MP-45-300 | 7.00 | 14.00 | 0.57 | 290 | 132 | FB-EL-MP-45-300 | 9.50 | 17.5 | 0.80 | 500 | 227 |
| 24" | CB-EL-MP-45-340 | 7.50 | 14.50 | 0.61 | 390 | 177 | FB-EL-MP-45-340 | 11.0 | 19.0 | 0.89 | 715 | 324 |
| 30" | CB-EL-MP-45-400 | 10.50 | 19.50 | 0.66 | 715 | 324 | FB-EL-MP-45-400 | 15.0 | 23.0 | 1.03 | 1275 | 578 |
| 36" | CB-EL-MP-45-460 | 11.50 | 21.00 | 0.74 | 1040 | 472 | FB-EL-MP-45-460 | 18.0 | 26.0 | 1.15 | 1930 | 875 |
| 42" | CB-EL-MP-45-520 | 14.00 | 23.00 | 0.82 | 1460 | 662 | FB-EL-MP-45-520 | 21.0 | 29.0 | 1.28 | 2745 | 1245 |
| 48" | CB-EL-MP-45-580 | 15.00 | 24.00 | 0.90 | 1905 | 864 | FB-EL-MP-45-580 | 24.0 | 32.0 | 1.42 | 3815 | 1730 |

Dimensions in inches.

BENDS

BENDS, 1/16 (22.5°)

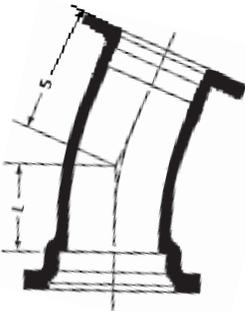


| AWWA C153 – COMPACT BODY | | | | | | AWWA C110 – FULL BODY | | | | |
|--------------------------|------------------|-------|------|------------|-----------|-----------------------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) |
| 2" | CB-EL-M-22.5-120 | 1.00 | | 9 | 4 | | | | | |
| 3" | CB-EL-M-22.5-130 | 1.00 | 0.33 | 15 | 7 | | | | | |
| 4" | CB-EL-M-22.5-140 | 1.50 | 0.34 | 18 | 8 | | | | | |
| 6" | CB-EL-M-22.5-160 | 2.00 | 0.36 | 31 | 14 | | | | | |
| 8" | CB-EL-M-22.5-180 | 2.50 | 0.38 | 46 | 21 | | | | | |
| 10" | CB-EL-M-22.5-200 | 3.00 | 0.40 | 64 | 29 | | | | | |
| 12" | CB-EL-M-22.5-220 | 3.50 | 0.42 | 80 | 36 | | | | | |
| 14" | CB-EL-M-22.5-240 | 3.75 | 0.47 | 136 | 62 | | | | | |
| 16" | CB-EL-M-22.5-260 | 3.75 | 0.50 | 172 | 78 | | | | | |
| 18" | CB-EL-M-22.5-280 | 4.50 | 0.54 | 255 | 116 | FB-EL-M-22.5-280 | 8.50 | 0.75 | 430 | 195 |
| 20" | CB-EL-M-22.5-300 | 4.50 | 0.57 | 310 | 141 | FB-EL-M-22.5-300 | 9.50 | 0.80 | 535 | 243 |
| 24" | CB-EL-M-22.5-340 | 4.50 | 0.61 | 412 | 187 | FB-EL-M-22.5-340 | 11.0 | 0.89 | 765 | 347 |
| 30" | CB-EL-M-22.5-400 | 6.75 | 0.66 | 665 | 302 | FB-EL-M-22.5-400 | 15.0 | 1.03 | 1400 | 635 |
| 36" | CB-EL-M-22.5-460 | 7.75 | 0.74 | 960 | 435 | FB-EL-M-22.5-460 | 18.0 | 1.15 | 2135 | 968 |
| 42" | CB-EL-M-22.5-520 | 9.00 | 0.82 | 1350 | 612 | FB-EL-M-22.5-520 | 21.0 | 1.28 | 3020 | 1370 |
| 48" | CB-EL-M-22.5-580 | 10.00 | 0.90 | 1760 | 798 | FB-EL-M-22.5-580 | 24.0 | 1.42 | 4170 | 1891 |

Dimensions in inches.

BENDS, 1/16 (22.5°)

MJ x FL



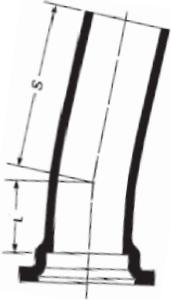
| AWWA C153 – COMPACT BODY | | | | | | |
|--------------------------|-------------------|------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) |
| 3" | CB-EL-MF-22.5-130 | 1.00 | 6.50 | 0.33 | 17 | 8 |
| 4" | CB-EL-MF-22.5-140 | 1.50 | 7.00 | 0.34 | 26 | 12 |
| 6" | CB-EL-MF-22.5-160 | 2.00 | 7.50 | 0.36 | 47 | 21 |
| 8" | CB-EL-MF-22.5-180 | 2.50 | 8.00 | 0.38 | 68 | 31 |
| 10" | CB-EL-MF-22.5-200 | 3.00 | 8.50 | 0.40 | 102 | 46 |
| 12" | CB-EL-MF-22.5-220 | 3.50 | 9.00 | 0.42 | 134 | 61 |

Dimensions in inches.

BENDS

BENDS, 1/16 (22.5°)

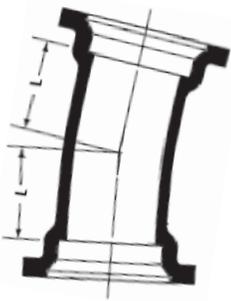
MJ x PE



| AWWA C153 – COMPACT BODY | | | | | | | AWWA C110 – FULL BODY | | | | | |
|--------------------------|-------------------|-------|-------|------|------------|-----------|-----------------------|------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | S | T | Wgt. (Lbs) | Wgt. (Kg) |
| 3" | CB-EL-MP-22.5-130 | 1.00 | 6.50 | 0.33 | 12 | 5 | | | | | | |
| 4" | CB-EL-MP-22.5-140 | 1.50 | 7.00 | 0.34 | 18 | 8 | | | | | | |
| 6" | CB-EL-MP-22.5-160 | 2.00 | 7.50 | 0.36 | 29 | 13 | | | | | | |
| 8" | CB-EL-MP-22.5-180 | 2.50 | 8.00 | 0.38 | 43 | 20 | | | | | | |
| 10" | CB-EL-MP-22.5-200 | 3.00 | 8.50 | 0.40 | 61 | 28 | | | | | | |
| 12" | CB-EL-MP-22.5-220 | 3.50 | 9.00 | 0.42 | 79 | 36 | | | | | | |
| 14" | CB-EL-MP-22.5-240 | 3.75 | 11.25 | 0.47 | 133 | 60 | | | | | | |
| 16" | CB-EL-MP-22.5-260 | 3.75 | 11.75 | 0.50 | 166 | 75 | | | | | | |
| 18" | CB-EL-MP-22.5-280 | 4.50 | 13.00 | 0.54 | 2235 | 1014 | FB-EL-MP-22.5-280 | 8.50 | 16.5 | 0.75 | 405 | 184 |
| 20" | CB-EL-MP-22.5-300 | 4.50 | 14.00 | 0.57 | 300 | 136 | FB-EL-MP-22.5-300 | 9.50 | 17.5 | 0.80 | 505 | 229 |
| 24" | CB-EL-MP-22.5-340 | 4.50 | 14.50 | 0.61 | 395 | 179 | FB-EL-MP-22.5-340 | 11.0 | 19.0 | 0.89 | 725 | 329 |
| 30" | CB-EL-MP-22.5-400 | 6.75 | 15.75 | 0.66 | 600 | 272 | FB-EL-MP-22.5-400 | 15.0 | 23.0 | 1.03 | 1295 | 587 |
| 36" | CB-EL-MP-22.5-460 | 7.75 | 16.75 | 0.74 | 865 | 392 | FB-EL-MP-22.5-460 | 18.0 | 26.0 | 1.15 | 1970 | 894 |
| 42" | CB-EL-MP-22.5-520 | 9.00 | 18.00 | 0.82 | 1200 | 544 | FB-EL-MP-22.5-520 | 21.0 | 29.0 | 1.28 | 2810 | 1275 |
| 48" | CB-EL-MP-22.5-580 | 10.00 | 19.00 | 0.90 | 1575 | 714 | FB-EL-MP-22.5-580 | 24.0 | 32.0 | 1.42 | 3905 | 1771 |

Dimensions in inches.

BENDS, 1/32 (11.25°)



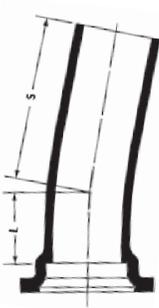
| AWWA C153 – COMPACT BODY | | | | | | AWWA C110 – FULL BODY | | | | |
|--------------------------|-------------------|------|------|------------|-----------|-----------------------|------|------|------------|-----------|
| SIZE | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) |
| 2" | CB-EL-M-11.25-120 | 1.00 | | 8 | 4 | | | | | |
| 3" | CB-EL-M-11.25-130 | 1.00 | 0.33 | 14 | 6 | | | | | |
| 4" | CB-EL-M-11.25-140 | 1.25 | 0.34 | 16 | 7 | | | | | |
| 6" | CB-EL-M-11.25-160 | 1.50 | 0.36 | 30 | 14 | | | | | |
| 8" | CB-EL-M-11.25-180 | 1.75 | 0.38 | 42 | 19 | | | | | |
| 10" | CB-EL-M-11.25-200 | 2.00 | 0.40 | 58 | 26 | | | | | |
| 12" | CB-EL-M-11.25-220 | 2.25 | 0.42 | 67 | 30 | | | | | |
| 14" | CB-EL-M-11.25-240 | 2.50 | 0.47 | 93 | 42 | | | | | |
| 16" | CB-EL-M-11.25-260 | 2.50 | 0.50 | 148 | 67 | | | | | |
| 18" | CB-EL-M-11.25-280 | 3.00 | 0.54 | 205 | 93 | FB-EL-M-11.25-280 | 8.50 | 0.75 | 430 | 195 |
| 20" | CB-EL-M-11.25-300 | 3.00 | 0.57 | 245 | 111 | FB-EL-M-11.25-300 | 9.50 | 0.80 | 540 | 245 |
| 24" | CB-EL-M-11.25-340 | 3.00 | 0.61 | 315 | 143 | FB-EL-M-11.25-340 | 11.0 | 0.89 | 770 | 349 |
| 30" | CB-EL-M-11.25-400 | 4.75 | 0.66 | 600 | 272 | FB-EL-M-11.25-400 | 15.0 | 1.03 | 1410 | 640 |
| 36" | CB-EL-M-11.25-460 | 5.00 | 0.74 | 820 | 372 | FB-EL-M-11.25-460 | 18.0 | 1.15 | 2145 | 973 |
| 42" | CB-EL-M-11.25-520 | 6.00 | 0.82 | 1180 | 535 | FB-EL-M-11.25-520 | 21.0 | 1.28 | 3035 | 1377 |
| 48" | CB-EL-M-11.25-580 | 6.50 | 0.90 | 1475 | 669 | FB-EL-M-11.25-580 | 24.0 | 1.42 | 4190 | 1901 |

Dimensions in inches.

BENDS

BENDS, 1/32 (11.25°)

MJ x PE

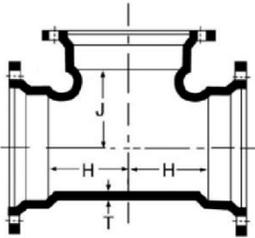


| AWWA C153 – COMPACT BODY | | | | | | | AWWA C110 – FULL BODY | | | | | |
|--------------------------|--------------------|------|-------|------|-----------|----------|-----------------------|------|------|------|-----------|----------|
| SIZE | PART NUMBER | L | S | T | Wt. (Lbs) | Wt. (Kg) | PART NUMBER | L | S | T | Wt. (Lbs) | Wt. (Kg) |
| 3" | CB-EL-MP-11.25-130 | 1.00 | 6.50 | 0.33 | 12 | 5 | | | | | | |
| 4" | CB-EL-MP-11.25-140 | 1.25 | 6.25 | 0.34 | 17 | 8 | | | | | | |
| 6" | CB-EL-MP-11.25-160 | 1.50 | 7.00 | 0.36 | 27 | 12 | | | | | | |
| 8" | CB-EL-MP-11.25-180 | 1.75 | 7.25 | 0.38 | 39 | 18 | | | | | | |
| 10" | CB-EL-MP-11.25-200 | 2.00 | 7.50 | 0.40 | 52 | 24 | | | | | | |
| 12" | CB-EL-MP-11.25-220 | 2.25 | 7.75 | 0.42 | 69 | 31 | | | | | | |
| 14" | CB-EL-MP-11.25-240 | 2.50 | 10.50 | 0.47 | 118 | 54 | | | | | | |
| 16" | CB-EL-MP-11.25-260 | 2.50 | 10.50 | 0.50 | 136 | 62 | | | | | | |
| 18" | CB-EL-MP-11.25-280 | 3.00 | 13.00 | 0.54 | 235 | 107 | FB-EL-MP-11.25-280 | 8.50 | 16.5 | 0.75 | 405 | 184 |
| 20" | CB-EL-MP-11.25-300 | 3.00 | 14.00 | 0.57 | 300 | 136 | FB-EL-MP-11.25-300 | 9.50 | 17.5 | 0.80 | 510 | 231 |
| 24" | CB-EL-MP-11.25-340 | 3.00 | 14.50 | 0.61 | 400 | 181 | FB-EL-MP-11.25-340 | 11.0 | 19.0 | 0.89 | 730 | 331 |
| 30" | CB-EL-MP-11.25-400 | 4.75 | 13.75 | 0.66 | 535 | 243 | FB-EL-MP-11.25-400 | 15.0 | 23.0 | 1.03 | 1305 | 592 |
| 36" | CB-EL-MP-11.25-460 | 5.00 | 14.00 | 0.74 | 725 | 329 | FB-EL-MP-11.25-460 | 18.0 | 26.0 | 1.15 | 1980 | 898 |
| 42" | CB-EL-MP-11.25-520 | 6.00 | 15.00 | 0.82 | 1030 | 467 | FB-EL-MP-11.25-520 | 21.0 | 29.0 | 1.28 | 2825 | 1281 |
| 48" | CB-EL-MP-11.25-580 | 6.50 | 15.50 | 0.90 | 1290 | 585 | FB-EL-MP-11.25-580 | 24.0 | 32.0 | 1.42 | 3925 | 1780 |

Dimensions in inches.

BENDS

TEES

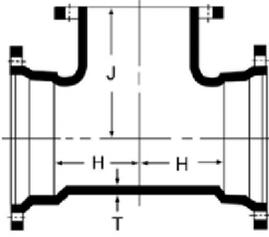


| AWWA C153 - COMPACT BODY | | | | | | | AWWA C110 - FULL BODY | | | | | |
|--------------------------|---------------|-------|-------|------|-----------|----------|-----------------------|------|------|------|-----------|----------|
| SIZE | PART NUMBER | H | J | T | Wt. (Lbs) | Wt. (Kg) | PART NUMBER | H | J | T | Wt. (Lbs) | Wt. (Kg) |
| 2" | CB-T-M-120 | 3.25 | 3.25 | 0.39 | 22 | 10 | | | | | | |
| 3" x 2" | CB-T-M-130120 | 3.50 | 3.50 | 0.48 | 43 | 20 | | | | | | |
| 3" | CB-T-M-130 | 3.00 | 3.00 | 0.33 | 28 | 13 | | | | | | |
| 4" x 3" | CB-T-M-140130 | 3.50 | 4.00 | 0.34 | 30 | 14 | | | | | | |
| 4" | CB-T-M-140 | 4.00 | 4.00 | 0.34 | 32 | 15 | | | | | | |
| 6" x 3" | CB-T-M-160130 | 3.50 | 5.00 | 0.36 | 42 | 19 | | | | | | |
| 6" x 4" | CB-T-M-160140 | 4.00 | 5.00 | 0.36 | 46 | 21 | | | | | | |
| 6" | CB-T-M-160 | 5.00 | 5.00 | 0.36 | 56 | 25 | | | | | | |
| 8" x 4" | CB-T-M-180140 | 4.00 | 6.50 | 0.38 | 60 | 27 | | | | | | |
| 8" x 6" | CB-T-M-180160 | 5.00 | 6.50 | 0.38 | 72 | 33 | | | | | | |
| 8" | CB-T-M-180 | 6.50 | 6.50 | 0.38 | 86 | 39 | | | | | | |
| 10" x 4" | CB-T-M-200140 | 4.00 | 7.50 | 0.40 | 78 | 35 | | | | | | |
| 10" x 6" | CB-T-M-200160 | 5.00 | 7.50 | 0.40 | 90 | 41 | | | | | | |
| 10" x 8" | CB-T-M-200180 | 6.50 | 7.50 | 0.40 | 105 | 48 | | | | | | |
| 10" | CB-T-M-200 | 7.50 | 7.50 | 0.40 | 120 | 54 | | | | | | |
| 12" x 4" | CB-T-M-220140 | 4.00 | 8.75 | 0.42 | 94 | 43 | | | | | | |
| 12" x 6" | CB-T-M-220160 | 5.00 | 8.75 | 0.42 | 110 | 50 | | | | | | |
| 12" x 8" | CB-T-M-220180 | 6.50 | 8.75 | 0.42 | 125 | 57 | | | | | | |
| 12" x 10" | CB-T-M-220200 | 7.50 | 8.75 | 0.42 | 140 | 64 | | | | | | |
| 12" | CB-T-M-220 | 8.75 | 8.75 | 0.42 | 160 | 73 | | | | | | |
| 14" x 6" | CB-T-M-240160 | 6.50 | 10.50 | 0.47 | 182 | 83 | | | | | | |
| 14" x 8" | CB-T-M-240180 | 7.50 | 10.50 | 0.47 | 206 | 93 | | | | | | |
| 14" x 10" | CB-T-M-240200 | 8.50 | 10.50 | 0.47 | 228 | 103 | | | | | | |
| 14" x 12" | CB-T-M-240220 | 9.50 | 10.50 | 0.47 | 234 | 106 | | | | | | |
| 14" | CB-T-M-240 | 10.50 | 10.50 | 0.47 | 280 | 127 | | | | | | |
| 16" x 6" | CB-T-M-260160 | 6.50 | 11.50 | 0.50 | 228 | 103 | | | | | | |
| 16" x 8" | CB-T-M-260180 | 7.50 | 11.50 | 0.50 | 248 | 112 | | | | | | |
| 16" x 10" | CB-T-M-260200 | 8.50 | 11.50 | 0.50 | 264 | 120 | | | | | | |
| 16" x 12" | CB-T-M-260220 | 9.50 | 11.50 | 0.50 | 280 | 127 | | | | | | |
| 16" x 14" | CB-T-M-260240 | 10.50 | 11.50 | 0.50 | 316 | 143 | | | | | | |
| 16" | CB-T-M-260 | 11.50 | 11.50 | 0.50 | 322 | 146 | | | | | | |
| 18" x 6" | CB-T-M-280160 | 6.50 | 12.50 | 0.54 | 275 | 125 | FB-T-M-280160 | 13.0 | 15.5 | 0.75 | 590 | 268 |
| 18" x 8" | CB-T-M-280180 | 7.50 | 12.50 | 0.54 | 295 | 134 | FB-T-M-280180 | 13.0 | 15.5 | 0.75 | 605 | 274 |
| 18" x 10" | CB-T-M-280200 | 8.50 | 12.50 | 0.54 | 315 | 143 | FB-T-M-280200 | 13.0 | 15.5 | 0.75 | 620 | 281 |
| 18" x 12" | CB-T-M-280120 | 9.50 | 12.50 | 0.54 | 335 | 152 | FB-T-M-280220 | 13.0 | 15.5 | 0.75 | 640 | 290 |
| 18" x 14" | CB-T-M-280240 | 10.50 | 12.50 | 0.54 | 380 | 172 | FB-T-M-280240 | 16.5 | 16.5 | 0.75 | 755 | 342 |
| 18" x 16" | CB-T-M-280260 | 11.50 | 12.50 | 0.54 | 405 | 184 | FB-T-M-280260 | 16.5 | 16.5 | 0.75 | 785 | 356 |
| 18" | CB-T-M-280 | 12.50 | 12.50 | 0.54 | 435 | 197 | FB-T-M-280 | 16.5 | 16.5 | 0.75 | 820 | 372 |
| 20" x 6" | CB-T-M-300160 | 6.50 | 14.00 | 0.57 | 315 | 143 | FB-T-M-300160 | 14.0 | 17.0 | 0.80 | 725 | 329 |
| 20" x 8" | CB-T-M-300180 | 8.00 | 14.00 | 0.57 | 345 | 156 | FB-T-M-300180 | 14.0 | 17.0 | 0.80 | 735 | 333 |
| 20" x 10" | CB-T-M-300200 | 9.00 | 14.00 | 0.57 | 370 | 168 | FB-T-M-300200 | 14.0 | 17.0 | 0.80 | 755 | 342 |
| 20" x 12" | CB-T-M-300220 | 10.00 | 14.00 | 0.57 | 395 | 179 | FB-T-M-300220 | 14.0 | 17.0 | 0.80 | 775 | 352 |
| 20" x 14" | CB-T-M-300240 | 11.00 | 14.00 | 0.57 | 440 | 200 | FB-T-M-300240 | 14.0 | 17.0 | 0.80 | 795 | 361 |
| 20" x 16" | CB-T-M-300260 | 12.00 | 14.00 | 0.57 | 465 | 211 | FB-T-M-300260 | 18.0 | 18.0 | 0.80 | 945 | 429 |
| 20" x 18" | CB-T-M-300280 | 13.00 | 14.00 | 0.57 | 505 | 229 | FB-T-M-300280 | 18.0 | 18.0 | 0.80 | 985 | 447 |
| 20" | CB-T-M-300 | 14.00 | 14.00 | 0.57 | 535 | 243 | FB-T-M-300 | 18.0 | 18.0 | 0.80 | 1020 | 463 |
| 24" x 6" | CB-T-M-340160 | 7.00 | 16.00 | 0.61 | 415 | 188 | FB-T-M-340160 | 15.0 | 19.0 | 0.89 | 985 | 447 |
| 24" x 8" | CB-T-M-340180 | 8.00 | 16.00 | 0.61 | 445 | 202 | FB-T-M-340180 | 15.0 | 19.0 | 0.89 | 1000 | 454 |
| 24" x 10" | CB-T-M-340200 | 9.00 | 16.00 | 0.61 | 470 | 213 | FB-T-M-340200 | 15.0 | 19.0 | 0.89 | 1020 | 463 |
| 24" x 12" | CB-T-M-340220 | 10.00 | 16.00 | 0.61 | 500 | 227 | FB-T-M-340220 | 15.0 | 19.0 | 0.89 | 1030 | 467 |
| 24" x 14" | CB-T-M-340240 | 11.00 | 16.00 | 0.61 | 550 | 249 | FB-T-M-340240 | 15.0 | 19.0 | 0.89 | 1055 | 479 |
| 24" x 16" | CB-T-M-340260 | 12.00 | 16.00 | 0.61 | 580 | 263 | FB-T-M-340260 | 15.0 | 19.0 | 0.89 | 1075 | 488 |
| 24" x 18" | CB-T-M-340280 | 13.00 | 16.00 | 0.61 | 625 | 283 | FB-T-M-340280 | 22.0 | 22.0 | 0.89 | 1400 | 635 |
| 24" x 20" | CB-T-M-340300 | 14.00 | 16.00 | 0.61 | 660 | 299 | FB-T-M-340300 | 22.0 | 22.0 | 0.89 | 1450 | 658 |
| 24" | CB-T-M-340 | 16.00 | 16.00 | 0.61 | 720 | 327 | FB-T-M-340 | 22.0 | 22.0 | 0.89 | 1535 | 696 |
| 30" x 8" | | 8.50 | 20.00 | 0.66 | | | FB-T-M-400180 | 18.0 | 23.0 | 1.03 | 1745 | 792 |
| 30" x 12" | | 10.00 | 20.00 | 0.66 | | | FB-T-M-400220 | 18.0 | 23.0 | 1.03 | 1780 | 807 |
| 30" x 16" | | 12.50 | 20.00 | 0.66 | | | FB-T-M-400260 | 18.0 | 23.0 | 1.03 | 1820 | 826 |
| 30" x 20" | | 15.00 | 20.00 | 0.66 | | | FB-T-M-400300 | 18.0 | 23.0 | 1.03 | 1875 | 850 |
| 30" x 24" | | 16.00 | 20.00 | 0.66 | | | FB-T-M-400340 | 25.0 | 25.0 | 1.03 | 2400 | 1089 |
| 30" | | 20.00 | 20.00 | 0.66 | | | FB-T-M-400 | 25.0 | 25.0 | 1.03 | 2595 | 1177 |
| 36" x 18" | | 13.00 | 23.50 | 0.74 | | | FB-T-M-460280 | 20.0 | 26.0 | 1.15 | 2610 | 1184 |
| 36" x 20" | | 14.00 | 23.50 | 0.74 | | | FB-T-M-460300 | 20.0 | 26.0 | 1.15 | 2635 | 1195 |
| 36" x 24" | | 16.00 | 23.50 | 0.74 | | | FB-T-M-460340 | 20.0 | 26.0 | 1.15 | 2690 | 1220 |
| 36" x 30" | | 20.00 | 23.50 | 0.74 | | | FB-T-M-460400 | 28.0 | 28.0 | 1.15 | 3545 | 1608 |
| 36" | | 23.50 | 23.50 | 0.74 | | | FB-T-M-460 | 28.0 | 28.0 | 1.15 | 3745 | 1699 |
| 42" x 24" | | 20.00 | 27.50 | 0.82 | | | FB-T-M-520340 | 23.0 | 30.0 | 1.28 | 3690 | 1674 |
| 42" x 30" | | 22.00 | 29.50 | 0.82 | | | FB-T-M-520400 | 31.0 | 31.0 | 1.28 | 4650 | 2109 |
| 42" x 36" | | 30.00 | 30.00 | 0.82 | | | FB-T-M-520460 | 31.0 | 31.0 | 1.78 | 6075 | 2756 |
| 42" | | 30.00 | 30.00 | 0.82 | | | FB-T-M-520 | 31.0 | 31.0 | 1.78 | 6320 | 2867 |
| 48" x 24" | | 23.00 | 32.00 | 0.90 | | | FB-T-M-580340 | 26.0 | 34.0 | 1.42 | 4995 | 2266 |
| 48" x 30" | | 23.00 | 32.00 | 0.90 | | | FB-T-M-580400 | 26.0 | 34.0 | 1.42 | 5140 | 2331 |
| 48" x 36" | | 33.50 | 33.25 | 0.90 | | | FB-T-M-580460 | 34.0 | 34.0 | 1.42 | 6280 | 2849 |
| 48" x 42" | | 33.50 | 33.50 | 0.90 | | | FB-T-M-580520 | 34.0 | 34.0 | 1.96 | 8130 | 3688 |
| 48" | | 33.50 | 33.50 | 0.90 | | | FB-T-M-580 | 34.0 | 34.0 | 1.96 | 8420 | 3819 |

Dimensions in inches.

TEES

Mechanical Joint x Flange

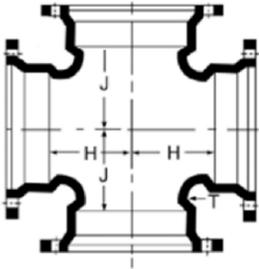


| AWWA C153 – COMPACT BODY | | | | | | |
|--------------------------|----------------|-------|-------|------|-----------|----------|
| SIZE | PART NUMBER | H | J | T | Wt. (Lbs) | Wt. (Kg) |
| 3" | CB-T-MF-130 | 3.00 | 3.00 | 0.33 | 30 | 14 |
| 4" x 3" | CB-T-MF-140130 | 3.50 | 4.00 | 0.34 | 34 | 15 |
| 4" | CB-T-MF-140 | 4.00 | 4.00 | 0.34 | 40 | 18 |
| 6" x 3" | CB-T-MF-160130 | 3.50 | 5.00 | 0.36 | 50 | 23 |
| 6" x 4" | CB-T-MF-160140 | 4.00 | 5.00 | 0.36 | 55 | 25 |
| 6" | CB-T-MF-160 | 5.00 | 5.00 | 0.36 | 64 | 29 |
| 8" x 4" | CB-T-MF-180140 | 6.50 | 6.50 | 0.38 | 72 | 33 |
| 8" x 6" | CB-T-MF-180160 | 5.00 | 6.50 | 0.38 | 83 | 38 |
| 8" | CB-T-MF-180 | 6.50 | 6.50 | 0.38 | 94 | 43 |
| 10" x 4" | CB-T-MF-200140 | 4.00 | 7.50 | 0.40 | 89 | 40 |
| 10" x 6" | CB-T-MF-200160 | 5.00 | 7.50 | 0.40 | 100 | 45 |
| 10" x 8" | CB-T-MF-200180 | 6.50 | 7.50 | 0.40 | 105 | 48 |
| 10" | CB-T-MF-200 | 7.50 | 7.50 | 0.40 | 127 | 58 |
| 12" x 4" | CB-T-MF-220140 | 4.00 | 8.75 | 0.42 | 117 | 53 |
| 12" x 6" | CB-T-MF-220160 | 5.00 | 8.75 | 0.42 | 122 | 55 |
| 12" x 8" | CB-T-MF-220180 | 6.50 | 8.75 | 0.42 | 132 | 60 |
| 12" x 10" | CB-T-MF-220200 | 7.50 | 8.75 | 0.42 | 152 | 69 |
| 12" | CB-T-MF-220 | 8.75 | 8.75 | 0.42 | 162 | 73 |
| 14" x 6" | CB-T-MF-240160 | 6.50 | 10.50 | 0.47 | 233 | 106 |
| 14" x 8" | CB-T-MF-240180 | 7.50 | 10.50 | 0.47 | 255 | 116 |
| 14" x 10" | CB-T-MF-240200 | 8.50 | 10.50 | 0.47 | 276 | 125 |
| 14" x 12" | CB-T-MF-240220 | 9.50 | 10.50 | 0.47 | 315 | 143 |
| 14" | CB-T-MF-240 | 10.50 | 10.50 | 0.47 | 328 | 149 |
| 16" x 6" | CB-T-MF-260160 | 6.50 | 11.50 | 0.50 | 274 | 124 |
| 16" x 8" | CB-T-MF-260180 | 7.50 | 11.50 | 0.50 | 294 | 133 |
| 16" x 10" | CB-T-MF-260200 | 8.50 | 11.50 | 0.50 | 321 | 146 |
| 16" x 12" | CB-T-MF-260220 | 9.50 | 11.50 | 0.50 | 355 | 161 |
| 16" x 14" | CB-T-MF-260240 | 10.50 | 11.50 | 0.50 | 347 | 157 |
| 16" | CB-T-MF-260 | 11.50 | 11.50 | 0.50 | 419 | 190 |
| 18" x 6" | CB-T-MF-280160 | 6.50 | 12.50 | 0.54 | 307 | 139 |
| 18" x 8" | CB-T-MF-280180 | 7.50 | 12.50 | 0.54 | 351 | 159 |
| 18" x 10" | CB-T-MF-280200 | 8.50 | 12.50 | 0.54 | 356 | 161 |
| 18" x 12" | CB-T-MF-280120 | 9.50 | 12.50 | 0.54 | 391 | 177 |
| 18" x 14" | CB-T-MF-280240 | 10.50 | 12.50 | 0.54 | 420 | 191 |
| 18" x 16" | CB-T-MF-280260 | 11.50 | 12.50 | 0.54 | 463 | 210 |
| 18" | CB-T-MF-280 | 12.50 | 12.50 | 0.54 | 491 | 223 |
| 20" x 6" | CB-T-MF-300160 | 6.50 | 14.00 | 0.57 | 347 | 157 |
| 20" x 8" | CB-T-MF-300180 | 8.00 | 14.00 | 0.57 | 370 | 168 |
| 20" x 10" | CB-T-MF-300200 | 9.00 | 14.00 | 0.57 | 400 | 181 |
| 20" x 12" | CB-T-MF-300220 | 10.00 | 14.00 | 0.57 | 437 | 198 |
| 20" x 14" | CB-T-MF-300240 | 11.00 | 14.00 | 0.57 | 458 | 208 |
| 20" x 16" | CB-T-MF-300260 | 12.00 | 14.00 | 0.57 | 511 | 232 |
| 20" x 18" | CB-T-MF-300280 | 13.00 | 14.00 | 0.57 | 552 | 250 |
| 20" | CB-T-MF-300 | 14.00 | 14.00 | 0.57 | 604 | 274 |
| 24" x 6" | CB-T-MF-340160 | 7.00 | 16.00 | 0.61 | 391 | 177 |
| 24" x 8" | CB-T-MF-340180 | 8.00 | 16.00 | 0.61 | 402 | 182 |
| 24" x 10" | CB-T-MF-340200 | 9.00 | 16.00 | 0.61 | 445 | 202 |
| 24" x 12" | CB-T-MF-340220 | 10.00 | 16.00 | 0.61 | 488 | 221 |
| 24" x 14" | CB-T-MF-340240 | 11.00 | 16.00 | 0.61 | 525 | 238 |
| 24" x 16" | CB-T-MF-340260 | 12.00 | 16.00 | 0.61 | 584 | 265 |
| 24" x 18" | CB-T-MF-340280 | 13.00 | 16.00 | 0.61 | 604 | 274 |
| 24" x 20" | CB-T-MF-340300 | 14.00 | 16.00 | 0.61 | 667 | 303 |
| 24" | CB-T-MF-340 | 16.00 | 16.00 | 0.61 | 744 | 337 |

Dimensions in inches.

TEES

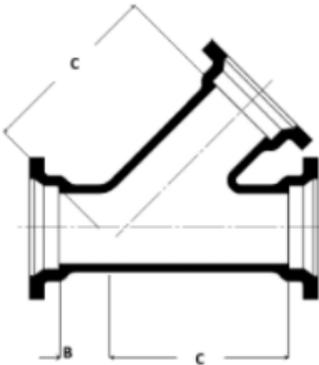
CROSSES



| AWWA C153 - COMPACT BODY | | | | | | | AWWA C110 - FULL BODY | | | | | |
|--------------------------|-------------------|-------|-------|------|------------|-----------|-----------------------|------|------|------|------------|-----------|
| SIZE | PART NUMBER | H | J | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | H | J | T | Wgt. (Lbs) | Wgt. (Kg) |
| 3" | CB-CROSS-M-130 | 3.00 | 3.00 | 0.33 | 35 | 16 | | | | | | |
| 4" x 3" | CB-CROSS-M-140130 | 3.50 | 4.00 | 0.34 | 38 | 17 | | | | | | |
| 4" | CB-CROSS-M-140 | 4.00 | 4.00 | 0.34 | 40 | 18 | | | | | | |
| 6" x 4" | CB-CROSS-M-160140 | 4.00 | 5.00 | 0.36 | 68 | 31 | | | | | | |
| 6" | CB-CROSS-M-160 | 5.00 | 5.00 | 0.36 | 75 | 34 | | | | | | |
| 8" x 4" | CB-CROSS-M-180140 | 4.00 | 6.50 | 0.38 | 72 | 33 | | | | | | |
| 8" x 6" | CB-CROSS-M-180160 | 5.00 | 6.50 | 0.38 | 99 | 45 | | | | | | |
| 8" | CB-CROSS-M-180 | 6.50 | 6.50 | 0.38 | 105 | 48 | | | | | | |
| 10" x 4" | CB-CROSS-M-200140 | 4.00 | 7.50 | 0.40 | 85 | 39 | | | | | | |
| 10" x 6" | CB-CROSS-M-200160 | 5.00 | 7.50 | 0.40 | 92 | 42 | | | | | | |
| 10" x 8" | CB-CROSS-M-200180 | 6.50 | 7.50 | 0.40 | 114 | 52 | | | | | | |
| 10" | CB-CROSS-M-200 | 7.50 | 7.50 | 0.40 | 145 | 66 | | | | | | |
| 12" x 4" | CB-CROSS-M-220140 | 4.00 | 8.75 | 0.42 | 100 | 45 | | | | | | |
| 12" x 6" | CB-CROSS-M-220160 | 5.00 | 8.75 | 0.42 | 114 | 52 | | | | | | |
| 12" x 8" | CB-CROSS-M-220180 | 6.50 | 8.75 | 0.42 | 132 | 60 | | | | | | |
| 12" x 10" | CB-CROSS-M-220200 | 7.50 | 8.75 | 0.42 | 190 | 86 | | | | | | |
| 12" | CB-CROSS-M-220 | 8.75 | 8.75 | 0.42 | 213 | 97 | | | | | | |
| 14" x 6" | CB-CROSS-M-240160 | 6.50 | 10.50 | 0.47 | 210 | 95 | | | | | | |
| 14" x 8" | CB-CROSS-M-240180 | 7.50 | 10.50 | 0.47 | 259 | 117 | | | | | | |
| 14" x 10" | CB-CROSS-M-240200 | 8.50 | 10.50 | 0.47 | 265 | 120 | | | | | | |
| 14" x 12" | CB-CROSS-M-240220 | 9.50 | 10.50 | 0.47 | 270 | 122 | | | | | | |
| 14" | CB-CROSS-M-240 | 10.50 | 10.50 | 0.47 | 299 | 136 | | | | | | |
| 16" x 6" | CB-CROSS-M-260160 | 6.50 | 11.50 | 0.50 | 250 | 113 | | | | | | |
| 16" x 8" | CB-CROSS-M-260180 | 7.50 | 11.50 | 0.50 | 290 | 132 | | | | | | |
| 16" x 10" | CB-CROSS-M-260200 | 8.50 | 11.50 | 0.50 | 345 | 156 | | | | | | |
| 16" x 12" | CB-CROSS-M-260220 | 9.50 | 11.50 | 0.50 | 397 | 180 | | | | | | |
| 16" | CB-CROSS-M-260 | 11.50 | 11.50 | 0.50 | 385 | 175 | | | | | | |
| 18" x 6" | CB-CROSS-M-280160 | 6.50 | 12.50 | 0.54 | 406 | 184 | FB-CROSS-M-280160 | 13.0 | 15.5 | 0.75 | 625 | 283 |
| 18" x 8" | CB-CROSS-M-280180 | 7.50 | 12.50 | 0.54 | 425 | 193 | FB-CROSS-M-280180 | 13.0 | 15.5 | 0.75 | 655 | 297 |
| 18" x 10" | CB-CROSS-M-280200 | 8.50 | 12.50 | 0.54 | 445 | 202 | FB-CROSS-M-280200 | 13.0 | 15.5 | 0.75 | 685 | 311 |
| 18" x 12" | CB-CROSS-M-280220 | 9.50 | 12.50 | 0.54 | 471 | 214 | FB-CROSS-M-280220 | 13.0 | 15.5 | 0.75 | 725 | 329 |
| 18" x 14" | CB-CROSS-M-280240 | 10.50 | 12.50 | 0.54 | 595 | 270 | FB-CROSS-M-280240 | 16.5 | 16.5 | 0.75 | 870 | 395 |
| 18" x 16" | CB-CROSS-M-280260 | 11.50 | 12.50 | 0.54 | 605 | 274 | FB-CROSS-M-280260 | 16.5 | 16.5 | 0.75 | 930 | 422 |
| 18" | CB-CROSS-M-280 | 12.50 | 12.50 | 0.54 | 646 | 293 | FB-CROSS-M-280 | 16.5 | 16.5 | 0.75 | 995 | 451 |
| 20" x 6" | CB-CROSS-M-300160 | 6.50 | 14.00 | 0.57 | 495 | 225 | FB-CROSS-M-300160 | 14.0 | 17.0 | 0.80 | 760 | 345 |
| 20" x 8" | CB-CROSS-M-300180 | 8.00 | 14.00 | 0.57 | 515 | 234 | FB-CROSS-M-300180 | 14.0 | 17.0 | 0.80 | 790 | 358 |
| 20" x 10" | CB-CROSS-M-300200 | 9.00 | 14.00 | 0.57 | 535 | 243 | FB-CROSS-M-300200 | 14.0 | 17.0 | 0.80 | 820 | 372 |
| 20" x 12" | CB-CROSS-M-300220 | 10.00 | 14.00 | 0.57 | 560 | 254 | FB-CROSS-M-300220 | 14.0 | 17.0 | 0.80 | 860 | 390 |
| 20" x 14" | CB-CROSS-M-300240 | 11.00 | 14.00 | 0.57 | 590 | 268 | FB-CROSS-M-300240 | 14.0 | 17.0 | 0.80 | 905 | 411 |
| 20" x 16" | CB-CROSS-M-300260 | 12.00 | 14.00 | 0.57 | 705 | 320 | FB-CROSS-M-300260 | 18.0 | 18.0 | 0.80 | 1085 | 492 |
| 20" x 18" | CB-CROSS-M-300280 | 13.00 | 14.00 | 0.57 | 750 | 340 | FB-CROSS-M-300280 | 18.0 | 18.0 | 0.80 | 1155 | 524 |
| 20" | CB-CROSS-M-300 | 14.00 | 14.00 | 0.57 | 800 | 363 | FB-CROSS-M-300 | 18.0 | 18.0 | 0.80 | 1230 | 558 |
| 24" x 6" | CB-CROSS-M-340160 | 7.00 | 16.00 | 0.61 | 6500 | 2948 | FB-CROSS-M-340160 | 15.0 | 19.0 | 0.89 | 1025 | 465 |
| 24" x 8" | CB-CROSS-M-340180 | 8.00 | 16.00 | 0.61 | 655 | 297 | FB-CROSS-M-340180 | 15.0 | 19.0 | 0.89 | 1045 | 474 |
| 24" x 10" | CB-CROSS-M-340200 | 9.00 | 16.00 | 0.61 | 680 | 308 | FB-CROSS-M-340200 | 15.0 | 19.0 | 0.89 | 1085 | 492 |
| 24" x 12" | CB-CROSS-M-340220 | 10.00 | 16.00 | 0.61 | 690 | 313 | FB-CROSS-M-340220 | 15.0 | 19.0 | 0.89 | 1110 | 503 |
| 24" x 14" | CB-CROSS-M-340240 | 11.00 | 16.00 | 0.61 | 720 | 327 | FB-CROSS-M-340240 | 15.0 | 19.0 | 0.89 | 1155 | 524 |
| 24" x 16" | CB-CROSS-M-340260 | 12.00 | 16.00 | 0.61 | 750 | 340 | FB-CROSS-M-340260 | 15.0 | 19.0 | 0.89 | 1200 | 544 |
| 24" x 18" | CB-CROSS-M-340280 | 13.00 | 16.00 | 0.61 | 910 | 413 | FB-CROSS-M-340280 | 22.0 | 22.0 | 0.89 | 1590 | 721 |
| 24" x 20" | CB-CROSS-M-340300 | 14.00 | 16.00 | 0.61 | 935 | 424 | FB-CROSS-M-340300 | 22.0 | 22.0 | 0.89 | 1675 | 760 |
| 24" | CB-CROSS-M-340 | 16.00 | 16.00 | 0.61 | 1010 | 458 | FB-CROSS-M-340 | 22.0 | 22.0 | 0.89 | 1835 | 832 |
| 30" x 8" | CB-CROSS-M-400180 | 8.50 | 20.00 | 0.66 | 1170 | 531 | FB-CROSS-M-400180 | 18.0 | 23.0 | 1.03 | 1795 | 814 |
| 30" x 12" | CB-CROSS-M-400220 | 10.00 | 20.00 | 0.66 | 1215 | 551 | FB-CROSS-M-400220 | 18.0 | 23.0 | 1.03 | 1865 | 846 |
| 30" x 16" | CB-CROSS-M-400260 | 12.50 | 20.00 | 0.66 | 1240 | 562 | FB-CROSS-M-400260 | 18.0 | 23.0 | 1.03 | 1950 | 885 |
| 30" x 20" | CB-CROSS-M-400300 | 15.00 | 20.00 | 0.66 | 1440 | 653 | FB-CROSS-M-400300 | 18.0 | 23.0 | 1.03 | 2060 | 934 |
| 30" x 24" | CB-CROSS-M-400340 | 16.00 | 20.00 | 0.66 | 1660 | 753 | FB-CROSS-M-400340 | 25.0 | 25.0 | 1.03 | 2675 | 1213 |
| 30" | CB-CROSS-M-400 | 20.00 | 20.00 | 0.74 | 1860 | 844 | FB-CROSS-M-400 | 25.0 | 25.0 | 1.03 | 3075 | 1395 |
| 36" x 24" | CB-CROSS-M-460340 | 16.00 | 23.50 | 0.74 | 1865 | 846 | FB-CROSS-M-460340 | 20.0 | 26.0 | 1.15 | 2910 | 1320 |
| 36" x 30" | CB-CROSS-M-460400 | 20.00 | 23.50 | 0.74 | 2580 | 1170 | FB-CROSS-M-460400 | 28.0 | 28.0 | 1.15 | 3965 | 1798 |
| 36" | CB-CROSS-M-460 | 23.50 | 23.50 | 0.74 | 2655 | 1204 | FB-CROSS-M-460 | 28.0 | 28.0 | 1.15 | 4370 | 1982 |
| 42" x 24" | CB-CROSS-M-520340 | 20.00 | 27.50 | 0.82 | 2350 | 1066 | FB-CROSS-M-520340 | 23.0 | 30.0 | 1.28 | 3910 | 1774 |
| 42" x 30" | CB-CROSS-M-520400 | 22.00 | 29.50 | 0.82 | 2920 | 1324 | FB-CROSS-M-520400 | 31.0 | 31.0 | 1.28 | 5040 | 2286 |
| 42" x 36" | CB-CROSS-M-520460 | 30.00 | 30.00 | 0.82 | 3675 | 1667 | FB-CROSS-M-520460 | 31.0 | 31.0 | 1.78 | 6655 | 3019 |
| 42" | CB-CROSS-M-520 | 30.00 | 30.00 | 0.82 | 4090 | 1855 | FB-CROSS-M-520 | 31.0 | 31.0 | 1.78 | 7145 | 3241 |
| 48" x 24" | CB-CROSS-M-580340 | 23.00 | 32.00 | 0.90 | 3390 | 1538 | FB-CROSS-M-580340 | 26.0 | 34.0 | 1.42 | 5210 | 2363 |
| 48" x 30" | CB-CROSS-M-580400 | 23.00 | 32.00 | 0.90 | 3575 | 1622 | FB-CROSS-M-580400 | 26.0 | 34.0 | 1.42 | 5495 | 2492 |
| 48" x 36" | CB-CROSS-M-580460 | 33.50 | 33.25 | 0.90 | 4415 | 2003 | FB-CROSS-M-580460 | 34.0 | 34.0 | 1.42 | 6790 | 3080 |
| 48" x 42" | CB-CROSS-M-580520 | 33.50 | 33.50 | 0.90 | 5730 | 2599 | FB-CROSS-M-580520 | 34.0 | 34.0 | 1.96 | 8815 | 3998 |
| 48" | CB-CROSS-M-580 | 33.50 | 33.50 | 0.90 | 4955 | 2248 | FB-CROSS-M-580 | 34.0 | 34.0 | 1.96 | 9380 | 4255 |

Dimensions in inches.

45° LATERAL WYES

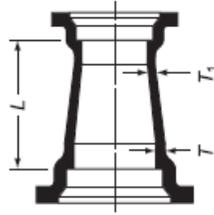


| AWWA C153 - COMPACT BODY | | | | | | AWWA C110 - FULL BODY | | | | | | |
|--------------------------|-------------------|-----|-------|-----|-----------|-----------------------|-------------------|-------|------|------|-----------|----------|
| SIZE | PART NUMBER | B | C | T | Wt. (Lbs) | Wt. (Kg) | PART NUMBER | B | C | T | Wt. (Lbs) | Wt. (Kg) |
| 3" | CB-LY-M-45-130 | 2.5 | 8.50 | .33 | 34 | 15 | | | | | | |
| 4" | CB-LY-M-45-140 | 2.5 | 9.50 | .34 | 51 | 23 | | | | | | |
| 6" x 4" | CB-LY-M-45-160140 | 1.5 | 11.0 | .36 | 73 | 33 | | | | | | |
| 6" | CB-LY-M-45-160 | 3.0 | 13.0 | .36 | 81 | 37 | | | | | | |
| 8" x 4" | CB-LY-M-45-180140 | 0.5 | 13.0 | .38 | 106 | 48 | | | | | | |
| 8" x 6" | CB-LY-M-45-180160 | 2.0 | 14.5 | .38 | 114 | 52 | | | | | | |
| 8" | CB-LY-M-45-180 | 3.5 | 16.0 | .38 | 128 | 58 | | | | | | |
| 10" x 4" | CB-LY-M-45-200140 | 0.5 | 15.0 | .40 | 151 | 68 | | | | | | |
| 10" x 6" | CB-LY-M-45-200160 | 1.0 | 16.0 | .40 | 158 | 72 | | | | | | |
| 10" x 8" | CB-LY-M-45-200180 | 2.5 | 17.0 | .40 | 172 | 78 | | | | | | |
| 10" | CB-LY-M-45-200 | 3.5 | 19.0 | .40 | 212 | 96 | | | | | | |
| 12" x 4" | CB-LY-M-45-220140 | 0.5 | 16.5 | .42 | 212 | 96 | | | | | | |
| 12" x 6" | CB-LY-M-45-220160 | 1.5 | 18.5 | .42 | 220 | 100 | | | | | | |
| 12" x 8" | CB-LY-M-45-220180 | 1.5 | 18.5 | .42 | 238 | 108 | | | | | | |
| 12" x 10" | CB-LY-M-45-220200 | 3.0 | 20.0 | .42 | 278 | 126 | | | | | | |
| 12" | CB-LY-M-45-220 | 4.5 | 22.5 | .42 | 298 | 135 | | | | | | |
| 14" x 6" | CB-LY-M-45-240160 | 2.0 | 20.0 | .51 | 390 | 177 | | | | | | |
| 14" x 8" | CB-LY-M-45-240180 | 3.0 | 20.0 | .51 | 405 | 184 | | | | | | |
| 14" x 10" | CB-LY-M-45-240200 | 3.0 | 21.0 | .51 | 420 | 191 | | | | | | |
| 14" x 12" | CB-LY-M-45-240220 | 4.5 | 23.5 | .51 | 440 | 200 | | | | | | |
| 14" | CB-LY-M-45-240 | 6.0 | 25.0 | .51 | 474 | 215 | | | | | | |
| 16" x 6" | CB-LY-M-45-260160 | 2.0 | 22.0 | .52 | 470 | 213 | | | | | | |
| 16" x 8" | CB-LY-M-45-260180 | 2.0 | 22.0 | .52 | 480 | 218 | | | | | | |
| 16" x 10" | CB-LY-M-45-260200 | 3.0 | 23.5 | .52 | 505 | 229 | | | | | | |
| 16" x 12" | CB-LY-M-45-260220 | 4.0 | 25.10 | .52 | 525 | 238 | | | | | | |
| 16" x 14" | CB-LY-M-45-260240 | 5.0 | 26.5 | .52 | 550 | 249 | | | | | | |
| 16" | CB-LY-M-45-260 | 6.5 | 28.0 | .52 | 575 | 261 | | | | | | |
| 18" x 4" | | | | | | | FB-LY-M-45-280140 | 1.00 | 25.0 | 0.75 | 700 | 318 |
| 18" x 6" | | | | | | | FB-LY-M-45-280160 | 1.00 | 25.0 | 0.75 | 730 | 331 |
| 18" x 8" | | | | | | | FB-LY-M-45-280180 | 1.00 | 25.0 | 0.75 | 750 | 340 |
| 18" x 10" | | | | | | | FB-LY-M-45-280200 | 7.00 | 32.0 | 0.75 | 1015 | 460 |
| 18" x 12" | | | | | | | FB-LY-M-45-280220 | 7.00 | 32.0 | 0.75 | 1055 | 479 |
| 18" x 14" | | | | | | | FB-LY-M-45-280240 | 7.00 | 32.0 | 0.75 | 1120 | 508 |
| 18" x 16" | | | | | | | FB-LY-M-45-280260 | 7.00 | 32.0 | 0.75 | 1180 | 535 |
| 18" | | | | | | | FB-LY-M-45-280 | 7.00 | 32.0 | 0.75 | 1245 | 565 |
| 20" x 10" | | | | | | | FB-LY-M-45-300200 | 1.00 | 29.5 | 0.80 | 940 | 426 |
| 20" x 12" | | | | | | | FB-LY-M-45-300220 | 8.00 | 35.0 | 0.80 | 1300 | 590 |
| 20" x 14" | | | | | | | FB-LY-M-45-300240 | 8.00 | 35.0 | 0.80 | 1365 | 619 |
| 20" x 16" | | | | | | | FB-LY-M-45-300260 | 8.00 | 35.0 | 0.80 | 1430 | 649 |
| 20" x 18" | | | | | | | FB-LY-M-45-300280 | 8.00 | 35.0 | 0.80 | 1495 | 678 |
| 20" | | | | | | | FB-LY-M-45-300 | 8.00 | 35.0 | 0.80 | 1575 | 714 |
| 24" x 10" | | | | | | | FB-LY-M-45-340200 | 0.50 | 31.5 | 0.89 | 1330 | 603 |
| 24" x 12" | | | | | | | FB-LY-M-45-340220 | 0.50 | 31.5 | 0.89 | 1360 | 617 |
| 24" x 14" | | | | | | | FB-LY-M-45-340240 | 9.00 | 40.5 | 0.89 | 1930 | 875 |
| 24" x 16" | | | | | | | FB-LY-M-45-340260 | 9.00 | 40.5 | 0.89 | 1990 | 903 |
| 24" x 18" | | | | | | | FB-LY-M-45-340280 | 9.00 | 40.5 | 0.89 | 2060 | 934 |
| 24" x 20" | | | | | | | FB-LY-M-45-340300 | 9.00 | 40.5 | 0.89 | 2135 | 968 |
| 24" | | | | | | | FB-LY-M-45-340 | 9.00 | 40.5 | 0.89 | 2315 | 1050 |
| 30" x 12" | | | | | | | FB-LY-M-45-400220 | 10.00 | 49.0 | 1.03 | 3110 | 1411 |
| 30" x 14" | | | | | | | FB-LY-M-45-400240 | 10.00 | 49.0 | 1.03 | 3185 | 1445 |
| 30" x 16" | | | | | | | FB-LY-M-45-400260 | 10.00 | 49.0 | 1.03 | 3250 | 1474 |
| 30" x 18" | | | | | | | FB-LY-M-45-400280 | 10.00 | 49.0 | 1.03 | 3325 | 1508 |
| 30" x 20" | | | | | | | FB-LY-M-45-400300 | 10.00 | 49.0 | 1.03 | 3405 | 1544 |
| 30" x 24" | | | | | | | FB-LY-M-45-400340 | 10.00 | 49.0 | 1.03 | 3580 | 1624 |
| 30" | | | | | | | FB-LY-M-45-400 | 18.25 | 52.5 | 1.03 | 4580 | 2077 |
| 36" x 14" | | | | | | | FB-LY-M-45-460240 | 15.25 | 54.0 | 1.15 | 4875 | 2211 |
| 36" x 16" | | | | | | | FB-LY-M-45-460260 | 15.25 | 54.0 | 1.15 | 4940 | 2241 |
| 36" x 18" | | | | | | | FB-LY-M-45-460280 | 15.25 | 54.0 | 1.15 | 5005 | 2270 |
| 36" x 20" | | | | | | | FB-LY-M-45-460300 | 15.25 | 54.0 | 1.15 | 5080 | 2304 |
| 36" x 24" | | | | | | | FB-LY-M-45-460340 | 15.25 | 54.0 | 1.15 | 5245 | 2379 |
| 36" x 30" | | | | | | | FB-LY-M-45-460400 | 15.25 | 56.0 | 1.15 | 5800 | 2631 |
| 36" | | | | | | | FB-LY-M-45-460 | 19.50 | 60.0 | 1.15 | 6975 | 3164 |
| 42" x 20" | | | | | | | FB-LY-M-45-520300 | 12.00 | 60.0 | 1.28 | 6655 | 3019 |
| 42" x 24" | | | | | | | FB-LY-M-45-520340 | 12.00 | 60.0 | 1.28 | 6810 | 3089 |
| 42" x 30" | | | | | | | FB-LY-M-45-520400 | 12.00 | 63.0 | 1.28 | 7280 | 3302 |
| 42" x 36" | | | | | | | FB-LY-M-45-520460 | 12.00 | 66.0 | 1.78 | 8355 | 3790 |
| 42" | | | | | | | FB-LY-M-45-520 | 15.00 | 71.0 | 1.78 | 9900 | 4491 |
| 48" x 20" | | | | | | | FB-LY-M-45-580300 | 0.00 | 52.0 | 1.42 | 6545 | 2969 |
| 48" x 24" | | | | | | | FB-LY-M-45-580340 | 5.00 | 58.0 | 1.42 | 7430 | 3370 |
| 48" x 30" | | | | | | | FB-LY-M-45-580400 | 4.00 | 59.0 | 1.42 | 7925 | 3595 |
| 48" x 36" | | | | | | | FB-LY-M-45-580460 | 5.00 | 64.0 | 1.42 | 9065 | 4112 |
| 48" x 42" | | | | | | | FB-LY-M-45-580520 | 12.00 | 77.0 | 1.96 | 11940 | 5416 |
| 48" | | | | | | | FB-LY-M-45-580 | 16.00 | 77.0 | 1.96 | 13130 | 5956 |

Dimensions in inches.

WYES

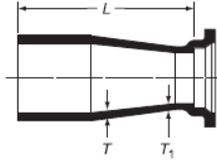
MJ REDUCERS



| AWWA C153 - COMPACT BODY | | | | | | | AWWA C110 - FULL BODY | | | | | |
|--------------------------|---------------|------|------|------|------------|-----------|-----------------------|------|------|----|------------|-----------|
| SIZE | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) |
| 4" x 3" | CB-R-M-140130 | 0.34 | 0.33 | 3 | 18 | 8 | | | | | | |
| 6" x 3" | CB-R-M-160130 | 0.36 | 0.33 | 5 | 22 | 10 | | | | | | |
| 6" x 4" | CB-R-M-160140 | 0.36 | 0.34 | 4 | 24 | 11 | | | | | | |
| 8" x 4" | CB-R-M-180140 | 0.38 | 0.34 | 5 | 32 | 15 | | | | | | |
| 8" x 6" | CB-R-M-180160 | 0.38 | 0.36 | 4 | 36 | 16 | | | | | | |
| 10" x 4" | CB-R-M-200140 | 0.40 | 0.34 | 7 | 46 | 21 | | | | | | |
| 10" x 6" | CB-R-M-200160 | 0.40 | 0.36 | 5 | 47 | 21 | | | | | | |
| 10" x 8" | CB-R-M-200180 | 0.40 | 0.38 | 4 | 50 | 23 | | | | | | |
| 12" x 4" | CB-R-M-220140 | 0.42 | 0.34 | 9 | 58 | 26 | | | | | | |
| 12" x 6" | CB-R-M-220160 | 0.42 | 0.36 | 7 | 58 | 26 | | | | | | |
| 12" x 8" | CB-R-M-220180 | 0.42 | 0.38 | 5 | 57 | 26 | | | | | | |
| 12" x 10" | CB-R-M-220200 | 0.42 | 0.40 | 4 | 61 | 28 | | | | | | |
| 14" x 6" | CB-R-M-240160 | 0.47 | 0.36 | 9 | 100 | 45 | | | | | | |
| 14" x 8" | CB-R-M-240180 | 0.47 | 0.38 | 7 | 100 | 45 | | | | | | |
| 14" x 10" | CB-R-M-240200 | 0.47 | 0.40 | 5 | 100 | 45 | | | | | | |
| 14" x 12" | CB-R-M-240220 | 0.47 | 0.42 | 4 | 100 | 45 | | | | | | |
| 16" x 6" | CB-R-M-260160 | 0.50 | 0.36 | 11 | 124 | 56 | | | | | | |
| 16" x 8" | CB-R-M-260180 | 0.50 | 0.38 | 9 | 124 | 56 | | | | | | |
| 16" x 10" | CB-R-M-260200 | 0.50 | 0.40 | 7 | 124 | 56 | | | | | | |
| 16" x 12" | CB-R-M-260220 | 0.50 | 0.42 | 5 | 112 | 51 | | | | | | |
| 16" x 14" | CB-R-M-260240 | 0.50 | 0.47 | 4 | 140 | 64 | | | | | | |
| 18" x 8" | CB-R-M-280180 | 0.54 | 0.38 | 13 | 190 | 86 | FB-R-M-280180 | 0.75 | 0.60 | 19 | 295 | 134 |
| 18" x 10" | CB-R-M-280200 | 0.54 | 0.40 | 10 | 195 | 88 | FB-R-M-280200 | 0.75 | 0.68 | 19 | 325 | 147 |
| 18" x 12" | CB-R-M-280220 | 0.54 | 0.42 | 7 | 180 | 82 | FB-R-M-280220 | 0.75 | 0.75 | 19 | 350 | 159 |
| 18" x 14" | CB-R-M-280240 | 0.54 | 0.47 | 6 | 190 | 86 | FB-R-M-280240 | 0.75 | 0.66 | 19 | 380 | 172 |
| 18" x 16" | CB-R-M-280260 | 0.54 | 0.50 | 5 | 195 | 88 | FB-R-M-280260 | 0.75 | 0.70 | 19 | 415 | 188 |
| 20" x 10" | CB-R-M-300200 | 0.57 | 0.40 | 14 | 220 | 100 | FB-R-M-300200 | 0.80 | 0.68 | 20 | 375 | 170 |
| 20" x 12" | CB-R-M-300220 | 0.57 | 0.42 | 12 | 205 | 93 | FB-R-M-300220 | 0.80 | 0.75 | 20 | 405 | 184 |
| 20" x 14" | CB-R-M-300240 | 0.57 | 0.47 | 10 | 200 | 91 | FB-R-M-200140 | 0.80 | 0.66 | 20 | 430 | 195 |
| 20" x 16" | CB-R-M-300260 | 0.57 | 0.50 | 7 | 200 | 91 | FB-R-M-300260 | 0.80 | 0.70 | 20 | 470 | 213 |
| 20" x 18" | CB-R-M-300280 | 0.57 | 0.54 | 4 | 225 | 102 | FB-R-M-300280 | 0.80 | 0.75 | 20 | 510 | 231 |
| 24" x 12" | CB-R-M-340220 | 0.61 | 0.42 | 16 | 305 | 138 | FB-R-M-340220 | 0.89 | 0.75 | 24 | 550 | 249 |
| 24" x 14" | CB-R-M-340240 | 0.61 | 0.47 | 14 | 310 | 141 | FB-R-M-340240 | 0.89 | 0.66 | 24 | 575 | 261 |
| 24" x 16" | CB-R-M-340260 | 0.61 | 0.50 | 12 | 320 | 145 | FB-R-M-340260 | 0.89 | 0.70 | 24 | 615 | 279 |
| 24" x 18" | CB-R-M-340280 | 0.61 | 0.54 | 10 | 305 | 138 | FB-R-M-340280 | 0.89 | 0.75 | 24 | 660 | 299 |
| 24" x 20" | CB-R-M-340300 | 0.61 | 0.57 | 7 | 300 | 136 | FB-R-M-340300 | 0.89 | 0.80 | 24 | 705 | 320 |
| 30" x 16" | CB-R-M-400260 | 0.66 | 0.50 | 30 | 633 | 287 | FB-R-M-400280 | 1.03 | 0.75 | 30 | 990 | 449 |
| 30" x 18" | CB-R-M-400280 | 0.66 | 0.54 | 28 | 658 | 298 | FB-R-M-400300 | 1.03 | 0.80 | 30 | 1050 | 476 |
| 30" x 20" | CB-R-M-400300 | 0.66 | 0.57 | 24 | 628 | 285 | FB-R-M-400340 | 1.03 | 0.89 | 30 | 1165 | 528 |
| 30" x 24" | CB-R-M-400340 | 0.66 | 0.61 | 10 | 478 | 217 | FB-R-M-460300 | 1.15 | 0.80 | 36 | 1450 | 658 |
| 36" x 20" | CB-R-M-460300 | 0.75 | 0.57 | 36 | 975 | 442 | FB-R-M-460340 | 1.15 | 0.89 | 36 | 1580 | 717 |
| 36" x 24" | CB-R-M-460340 | 0.75 | 0.61 | 19 | 770 | 349 | FB-R-M-460400 | 1.15 | 1.03 | 36 | 1855 | 841 |
| 36" x 30" | CB-R-M-460400 | 0.75 | 0.66 | 15.5 | 650 | 295 | FB-R-M-520300 | 1.28 | 0.80 | 42 | 1915 | 869 |
| 42" x 24" | CB-R-M-520340 | 0.82 | 0.61 | 40 | 1356 | 615 | FB-R-M-520340 | 1.28 | 0.89 | 42 | 2060 | 934 |
| 42" x 30" | CB-R-M-520400 | 0.82 | 0.66 | 20 | 1083 | 491 | FB-R-M-520400 | 1.28 | 1.03 | 42 | 2370 | 1075 |
| 42" x 36" | CB-R-M-520460 | 0.82 | 0.74 | 15.5 | 1114 | 505 | FB-R-M-520460 | 1.28 | 1.15 | 42 | 2695 | 1222 |
| 48" x 30" | CB-R-M-580400 | 0.90 | 0.66 | 40 | 1779 | 807 | FB-R-M-580400 | 1.42 | 1.03 | 48 | 3005 | 1363 |
| 48" x 36" | CB-R-M-580460 | 0.90 | 0.74 | 28 | 1641 | 744 | FB-R-M-580460 | 1.42 | 1.15 | 48 | 3370 | 1529 |
| 48" x 42" | CB-R-M-580520 | 0.90 | 0.82 | 15.5 | 1426 | 647 | FB-R-M-580520 | 1.42 | 1.28 | 48 | 3750 | 1701 |

Dimensions in inches.

MJ SMALL END REDUCER x PE

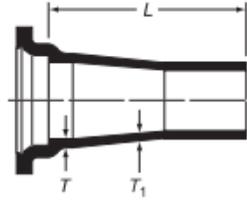


| AWWA C153 – COMPACT BODY | | | | | | | | AWWA C110 – FULL BODY | | | | | |
|--------------------------|-----------------|------|------|------|------------|-----------|-----------------|-----------------------|------|----|------|------------|-----------|
| SIZE | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) | | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) |
| 4" x 3" | CB-RS-MP-140130 | 0.34 | 0.33 | 8.5 | 17 | 8 | | | | | | | |
| 6" x 3" | CB-RS-MP-160130 | 0.36 | 0.33 | 10.5 | 24 | 11 | | | | | | | |
| 6" x 4" | CB-RS-MP-160140 | 0.36 | 0.34 | 9.5 | 25 | 11 | | | | | | | |
| 8" x 4" | CB-RS-MP-180140 | 0.38 | 0.34 | 10.5 | 30 | 14 | | | | | | | |
| 8" x 6" | CB-RS-MP-180160 | 0.38 | 0.36 | 9.5 | 35 | 16 | | | | | | | |
| 10" x 4" | CB-RS-MP-200140 | 0.40 | 0.34 | 12.5 | 43 | 20 | | | | | | | |
| 10" x 6" | CB-RS-MP-200160 | 0.40 | 0.36 | 10.5 | 46 | 21 | | | | | | | |
| 10" x 8" | CB-RS-MP-200180 | 0.40 | 0.38 | 9.5 | 42 | 19 | | | | | | | |
| 12" x 4" | CB-RS-MP-220140 | 0.42 | 0.34 | 14.5 | 60 | 27 | | | | | | | |
| 12" x 6" | CB-RS-MP-220160 | 0.42 | 0.36 | 12.5 | 58 | 26 | | | | | | | |
| 12" x 8" | CB-RS-MP-220180 | 0.42 | 0.38 | 10.5 | 54 | 24 | | | | | | | |
| 12" x 10" | CB-RS-MP-220200 | 0.42 | 0.40 | 9.5 | 59 | 27 | | | | | | | |
| 14" x 6" | CB-RS-MP-240160 | 0.47 | 0.36 | 16.9 | 100 | 45 | | | | | | | |
| 14" x 8" | CB-RS-MP-240180 | 0.47 | 0.38 | 14.9 | 98 | 44 | | | | | | | |
| 14" x 10" | CB-RS-MP-240200 | 0.47 | 0.40 | 12.9 | 94 | 43 | | | | | | | |
| 14" x 12" | CB-RS-MP-240220 | 0.47 | 0.42 | 11.9 | 90 | 41 | | | | | | | |
| 16" x 6" | CB-RS-MP-260160 | 0.50 | 0.36 | 18.9 | 125 | 57 | | | | | | | |
| 16" x 8" | CB-RS-MP-260180 | 0.50 | 0.38 | 16.9 | 121 | 55 | | | | | | | |
| 16" x 10" | CB-RS-MP-260200 | 0.50 | 0.40 | 15.0 | 105 | 48 | | | | | | | |
| 16" x 12" | CB-RS-MP-260220 | 0.50 | 0.42 | 12.9 | 109 | 49 | | | | | | | |
| 16" x 14" | CB-RS-MP-260240 | 0.50 | 0.47 | 12.0 | 126 | 57 | | | | | | | |
| 18" x 8" | CB-RS-MP-280180 | 0.54 | 0.38 | 20.0 | 170 | 77 | FB-RS-MP-280180 | 0.75 | 0.60 | 27 | 270 | 122 | |
| 18" x 10" | CB-RS-MP-280200 | 0.54 | 0.40 | 18.0 | 165 | 75 | FB-RS-MP-280200 | 0.75 | 0.68 | 27 | 300 | 136 | |
| 18" x 12" | CB-RS-MP-280220 | 0.54 | 0.42 | 15.5 | 150 | 68 | FB-RS-MP-280220 | 0.75 | 0.75 | 27 | 325 | 147 | |
| 18" x 14" | CB-RS-MP-280240 | 0.54 | 0.47 | 15.0 | 175 | 79 | FB-RS-MP-280240 | 0.75 | 0.66 | 27 | 355 | 161 | |
| 18" x 16" | CB-RS-MP-280260 | 0.54 | 0.50 | 12.5 | 170 | 77 | FB-RS-MP-280260 | 0.75 | 0.70 | 27 | 390 | 177 | |
| 20" x 10" | CB-RS-MP-300200 | 0.57 | 0.40 | 22.0 | 200 | 91 | FB-RS-MP-300200 | 0.80 | 0.68 | 28 | 345 | 156 | |
| 20" x 12" | CB-RS-MP-300220 | 0.57 | 0.42 | 17.5 | 170 | 77 | FB-RS-MP-300220 | 0.80 | 0.75 | 28 | 375 | 170 | |
| 20" x 14" | CB-RS-MP-300240 | 0.57 | 0.47 | 18.0 | 190 | 86 | FB-RS-MP-200140 | 0.80 | 0.66 | 28 | 400 | 181 | |
| 20" x 16" | CB-RS-MP-300260 | 0.57 | 0.50 | 13.5 | 185 | 84 | FB-RS-MP-300260 | 0.80 | 0.70 | 28 | 435 | 197 | |
| 20" x 18" | CB-RS-MP-300280 | 0.57 | 0.54 | 12.0 | 200 | 91 | FB-RS-MP-300280 | 0.80 | 0.75 | 28 | 475 | 215 | |
| 24" x 12" | CB-RS-MP-340220 | 0.61 | 0.42 | 21.5 | 275 | 125 | FB-RS-MP-340220 | 0.89 | 0.75 | 32 | 510 | 231 | |
| 24" x 14" | CB-RS-MP-340240 | 0.61 | 0.47 | 22.0 | 310 | 141 | FB-RS-MP-340240 | 0.89 | 0.66 | 32 | 535 | 243 | |
| 24" x 16" | CB-RS-MP-340260 | 0.61 | 0.50 | 17.5 | 285 | 129 | FB-RS-MP-340260 | 0.89 | 0.70 | 32 | 575 | 261 | |
| 24" x 18" | CB-RS-MP-340280 | 0.61 | 0.54 | 18.0 | 300 | 136 | FB-RS-MP-340280 | 0.89 | 0.75 | 32 | 620 | 281 | |
| 24" x 20" | CB-RS-MP-340300 | 0.61 | 0.57 | 13.5 | 270 | 122 | FB-RS-MP-340300 | 0.89 | 0.80 | 32 | 665 | 302 | |
| 30" x 16" | CB-RS-MP-400260 | 0.66 | 0.50 | 39.0 | 565 | 256 | FB-RS-MP-400280 | 1.03 | 0.75 | 38 | 885 | 401 | |
| 30" x 18" | CB-RS-MP-400280 | 0.66 | 0.54 | 37.0 | 590 | 268 | FB-RS-MP-400300 | 1.03 | 0.80 | 38 | 945 | 429 | |
| 30" x 20" | CB-RS-MP-400300 | 0.66 | 0.57 | 33.0 | 560 | 254 | FB-RS-MP-400340 | 1.03 | 0.89 | 38 | 1060 | 481 | |
| 30" x 24" | CB-RS-MP-400340 | 0.66 | 0.61 | 24.5 | 495 | 225 | FB-RS-MP-460300 | 1.15 | 0.80 | 44 | 1285 | 583 | |
| 36" x 20" | CB-RS-MP-460300 | 0.75 | 0.57 | 45.0 | 874 | 396 | FB-RS-MP-460340 | 1.15 | 0.89 | 44 | 1410 | 640 | |
| 36" x 24" | CB-RS-MP-460340 | 0.75 | 0.61 | 33.0 | 746 | 338 | FB-RS-MP-460400 | 1.15 | 1.03 | 44 | 1690 | 767 | |
| 36" x 30" | CB-RS-MP-460400 | 0.75 | 0.66 | 24.5 | 725 | 329 | FB-RS-MP-520300 | 1.28 | 0.80 | 50 | 1705 | 773 | |
| 42" x 24" | CB-RS-MP-520340 | 0.82 | 0.61 | 49.0 | 1204 | 546 | FB-RS-MP-520340 | 1.28 | 0.89 | 50 | 1855 | 841 | |
| 42" x 30" | CB-RS-MP-520400 | 0.82 | 0.66 | 29.0 | 931 | 422 | FB-RS-MP-520400 | 1.28 | 1.03 | 50 | 2165 | 982 | |
| 42" x 36" | CB-RS-MP-520460 | 0.82 | 0.74 | 24.5 | 962 | 436 | FB-RS-MP-520460 | 1.28 | 1.15 | 50 | 2485 | 1127 | |
| 48" x 30" | CB-RS-MP-580400 | 0.90 | 0.66 | 49.0 | 1594 | 723 | FB-RS-MP-580400 | 1.42 | 1.03 | 56 | 2740 | 1243 | |
| 48" x 36" | CB-RS-MP-580460 | 0.90 | 0.74 | 37.0 | 1456 | 660 | FB-RS-MP-580460 | 1.42 | 1.15 | 56 | 3100 | 1406 | |
| 48" x 42" | CB-RS-MP-580520 | 0.90 | 0.82 | 24.5 | 1241 | 563 | FB-RS-MP-580520 | 1.42 | 1.28 | 56 | 3480 | 1579 | |

Dimensions in inches.

REDUCERS

MJ LARGE END REDUCER x PE



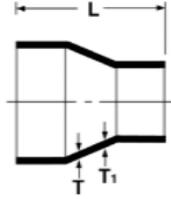
Large-End MJ

| AWWA C153 - COMPACT BODY | | | | | | | AWWA C110 - FULL BODY | | | | | |
|--------------------------|-----------------|------|------|------|------------|-----------|-----------------------|------|------|----|------------|-----------|
| SIZE | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) |
| 4" x 3" | CB-RL-MP-140130 | 0.34 | 0.33 | 8.5 | 18 | 8 | | | | | | |
| 6" x 3" | CB-RL-MP-160130 | 0.36 | 0.33 | 10.5 | 19 | 9 | | | | | | |
| 6" x 4" | CB-RL-MP-160140 | 0.36 | 0.34 | 9.5 | 25 | 11 | | | | | | |
| 8" x 4" | CB-RL-MP-180140 | 0.38 | 0.34 | 10.5 | 34 | 15 | | | | | | |
| 8" x 6" | CB-RL-MP-180160 | 0.38 | 0.36 | 9.5 | 32 | 15 | | | | | | |
| 10" x 4" | CB-RL-MP-200140 | 0.40 | 0.34 | 12.5 | 43 | 20 | | | | | | |
| 10" x 6" | CB-RL-MP-200160 | 0.40 | 0.36 | 10.5 | 42 | 19 | | | | | | |
| 10" x 8" | CB-RL-MP-200180 | 0.40 | 0.38 | 9.5 | 50 | 23 | | | | | | |
| 12" x 4" | CB-RL-MP-220140 | 0.42 | 0.34 | 14.5 | 60 | 27 | | | | | | |
| 12" x 6" | CB-RL-MP-220160 | 0.42 | 0.36 | 12.5 | 58 | 26 | | | | | | |
| 12" x 8" | CB-RL-MP-220180 | 0.42 | 0.38 | 10.5 | 55 | 25 | | | | | | |
| 12" x 10" | CB-RL-MP-220200 | 0.42 | 0.40 | 9.5 | 59 | 27 | | | | | | |
| 14" x 6" | CB-RL-MP-240160 | 0.47 | 0.36 | 14.5 | 104 | 47 | | | | | | |
| 14" x 8" | CB-RL-MP-240180 | 0.47 | 0.38 | 12.4 | 98 | 44 | | | | | | |
| 14" x 10" | CB-RL-MP-240200 | 0.47 | 0.40 | 10.4 | 92 | 42 | | | | | | |
| 14" x 12" | CB-RL-MP-240220 | 0.47 | 0.42 | 9.4 | 92 | 42 | | | | | | |
| 16" x 6" | CB-RL-MP-260160 | 0.50 | 0.36 | 16.5 | 136 | 62 | | | | | | |
| 16" x 8" | CB-RL-MP-260180 | 0.50 | 0.38 | 14.4 | 128 | 58 | | | | | | |
| 16" x 10" | CB-RL-MP-260200 | 0.50 | 0.40 | 12.5 | 123 | 56 | | | | | | |
| 16" x 12" | CB-RL-MP-260220 | 0.50 | 0.42 | 10.5 | 108 | 49 | | | | | | |
| 16" x 14" | CB-RL-MP-260240 | 0.50 | 0.47 | 12.0 | 132 | 60 | | | | | | |
| 18" x 8" | CB-RL-MP-280180 | 0.54 | 0.38 | 19.5 | 195 | 88 | FB-RL-MP-280180 | 0.75 | 0.60 | 27 | 295 | 134 |
| 18" x 10" | CB-RL-MP-280200 | 0.54 | 0.40 | 17.4 | 185 | 84 | FB-RL-MP-280200 | 0.75 | 0.68 | 27 | 320 | 145 |
| 18" x 12" | CB-RL-MP-280220 | 0.54 | 0.42 | 14.0 | 175 | 79 | FB-RL-MP-280220 | 0.75 | 0.75 | 27 | 350 | 159 |
| 18" x 14" | CB-RL-MP-280240 | 0.54 | 0.47 | 15.0 | 190 | 86 | FB-RL-MP-280240 | 0.75 | 0.66 | 27 | 365 | 166 |
| 18" x 16" | CB-RL-MP-280260 | 0.54 | 0.50 | 12.5 | 190 | 86 | FB-RL-MP-280260 | 0.75 | 0.70 | 27 | 395 | 179 |
| 20" x 10" | CB-RL-MP-300200 | 0.57 | 0.40 | 19.0 | 210 | 95 | FB-RL-MP-300200 | 0.80 | 0.68 | 28 | 375 | 170 |
| 20" x 12" | CB-RL-MP-300220 | 0.57 | 0.42 | 16.0 | 205 | 93 | FB-RL-MP-300220 | 0.80 | 0.75 | 28 | 405 | 184 |
| 20" x 14" | CB-RL-MP-300240 | 0.57 | 0.47 | 17.9 | 205 | 93 | FB-RL-MP-200140 | 0.80 | 0.66 | 28 | 415 | 188 |
| 20" x 16" | CB-RL-MP-300260 | 0.57 | 0.50 | 13.5 | 200 | 91 | FB-RL-MP-300260 | 0.80 | 0.70 | 28 | 445 | 202 |
| 20" x 18" | CB-RL-MP-300280 | 0.57 | 0.54 | 12.0 | 215 | 98 | FB-RL-MP-300280 | 0.80 | 0.75 | 28 | 485 | 220 |
| 24" x 12" | CB-RL-MP-340220 | 0.61 | 0.42 | 21.0 | 290 | 132 | FB-RL-MP-340220 | 0.89 | 0.75 | 32 | 550 | 249 |
| 24" x 14" | CB-RL-MP-340240 | 0.61 | 0.47 | 21.9 | 315 | 143 | FB-RL-MP-340240 | 0.89 | 0.66 | 32 | 560 | 254 |
| 24" x 16" | CB-RL-MP-340260 | 0.61 | 0.50 | 17.5 | 285 | 129 | FB-RL-MP-340260 | 0.89 | 0.70 | 32 | 595 | 270 |
| 24" x 18" | CB-RL-MP-340280 | 0.61 | 0.54 | 18.0 | 310 | 141 | FB-RL-MP-340280 | 0.89 | 0.75 | 32 | 635 | 288 |
| 24" x 20" | CB-RL-MP-340300 | 0.61 | 0.57 | 13.5 | 275 | 125 | FB-RL-MP-340300 | 0.89 | 0.80 | 32 | 675 | 306 |
| 30" x 16" | CB-RL-MP-400260 | 0.66 | 0.50 | 39.0 | 623 | 283 | FB-RL-MP-400280 | 1.03 | 0.75 | 38 | 965 | 438 |
| 30" x 18" | CB-RL-MP-400280 | 0.66 | 0.54 | 37.0 | 635 | 288 | FB-RL-MP-400300 | 1.03 | 0.80 | 38 | 1020 | 463 |
| 30" x 20" | CB-RL-MP-400300 | 0.66 | 0.57 | 33.0 | 603 | 274 | FB-RL-MP-400340 | 1.03 | 0.89 | 38 | 1125 | 510 |
| 30" x 24" | CB-RL-MP-400340 | 0.66 | 0.61 | 24.5 | 526 | 239 | FB-RL-MP-460300 | 1.15 | 0.80 | 44 | 1420 | 644 |
| 36" x 20" | CB-RL-MP-460300 | 0.75 | 0.57 | 45.0 | 950 | 431 | FB-RL-MP-460340 | 1.15 | 0.89 | 44 | 1535 | 696 |
| 36" x 24" | CB-RL-MP-460340 | 0.75 | 0.61 | 33.0 | 810 | 367 | FB-RL-MP-460400 | 1.15 | 1.03 | 44 | 1750 | 794 |
| 36" x 30" | CB-RL-MP-460400 | 0.75 | 0.66 | 24.5 | 758 | 344 | FB-RL-MP-520300 | 1.28 | 0.80 | 50 | 1880 | 853 |
| 42" x 24" | CB-RL-MP-520340 | 0.82 | 0.61 | 49.0 | 1319 | 598 | FB-RL-MP-520340 | 1.28 | 0.89 | 50 | 2020 | 916 |
| 42" x 30" | CB-RL-MP-520400 | 0.82 | 0.66 | 29.0 | 1015 | 460 | FB-RL-MP-520400 | 1.28 | 1.03 | 50 | 2265 | 1027 |
| 42" x 36" | CB-RL-MP-520460 | 0.82 | 0.74 | 24.5 | 1013 | 459 | FB-RL-MP-520460 | 1.28 | 1.15 | 50 | 2530 | 1148 |
| 48" x 30" | CB-RL-MP-580400 | 0.90 | 0.66 | 49.0 | 1711 | 776 | FB-RL-MP-580400 | 1.42 | 1.03 | 56 | 2900 | 1315 |
| 48" x 36" | CB-RL-MP-580460 | 0.90 | 0.74 | 37.0 | 1540 | 699 | FB-RL-MP-580460 | 1.42 | 1.15 | 56 | 3205 | 1454 |
| 48" x 42" | CB-RL-MP-580520 | 0.90 | 0.82 | 24.5 | 1274 | 578 | FB-RL-MP-580520 | 1.42 | 1.28 | 56 | 3540 | 1606 |

Dimensions in inches.

REDUCER

Plain End x Plain End

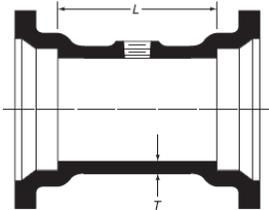


| AWWA C153 - COMPACT BODY | | | | | | | AWWA C110 - FULL BODY | | | | | |
|--------------------------|---------------|------|------|------|------------|-----------|-----------------------|------|------|----|------------|-----------|
| SIZE | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | T | T1 | L | Wgt. (Lbs) | Wgt. (Kg) |
| 4" x 3" | CB-R-P-140130 | 0.34 | 0.33 | 14.0 | 14 | 6 | | | | | | |
| 6" x 3" | CB-R-P-160130 | 0.36 | 0.33 | 16.0 | 19 | 9 | | | | | | |
| 6" x 4" | CB-R-P-160140 | 0.36 | 0.34 | 15.0 | 22 | 10 | | | | | | |
| 8" x 4" | CB-R-P-180140 | 0.38 | 0.34 | 16.0 | 30 | 14 | | | | | | |
| 8" x 6" | CB-R-P-180160 | 0.38 | 0.36 | 15.0 | 30 | 14 | | | | | | |
| 10" x 4" | CB-R-P-200140 | 0.40 | 0.34 | 18.0 | 46 | 21 | | | | | | |
| 10" x 6" | CB-R-P-200160 | 0.40 | 0.36 | 16.0 | 46 | 21 | | | | | | |
| 10" x 8" | CB-R-P-200180 | 0.40 | 0.38 | 15.0 | 47 | 21 | | | | | | |
| 12" x 4" | CB-R-P-220140 | 0.42 | 0.34 | 20.0 | 58 | 26 | | | | | | |
| 12" x 6" | CB-R-P-220160 | 0.42 | 0.36 | 18.0 | 57 | 26 | | | | | | |
| 12" x 8" | CB-R-P-220180 | 0.42 | 0.38 | 16.0 | 54 | 24 | | | | | | |
| 12" x 10" | CB-R-P-220200 | 0.42 | 0.40 | 15.0 | 54 | 24 | | | | | | |
| 14" x 6" | CB-R-P-240160 | 0.47 | 0.36 | 22.3 | 93 | 42 | | | | | | |
| 14" x 8" | CB-R-P-240180 | 0.47 | 0.38 | 20.3 | 94 | 43 | | | | | | |
| 14" x 10" | CB-R-P-240200 | 0.47 | 0.40 | 18.3 | 90 | 41 | | | | | | |
| 14" x 12" | CB-R-P-240220 | 0.47 | 0.42 | 17.3 | 88 | 40 | | | | | | |
| 16" x 6" | CB-R-P-260160 | 0.50 | 0.36 | 24.3 | 93 | 42 | | | | | | |
| 16" x 8" | CB-R-P-260180 | 0.50 | 0.38 | 22.3 | 119 | 54 | | | | | | |
| 16" x 10" | CB-R-P-260200 | 0.50 | 0.40 | 20.5 | 119 | 54 | | | | | | |
| 16" x 12" | CB-R-P-260220 | 0.50 | 0.42 | 18.3 | 99 | 45 | | | | | | |
| 16" x 14" | CB-R-P-260240 | 0.50 | 0.47 | 19.7 | 129 | 59 | | | | | | |
| 18" x 8" | CB-R-P-280180 | 0.54 | 0.38 | 27.4 | 170 | 77 | FB-R-P-280180 | 0.75 | 0.60 | 35 | 270 | 122 |
| 18" x 10" | CB-R-P-280200 | 0.54 | 0.40 | 25.5 | 160 | 73 | FB-R-P-280200 | 0.75 | 0.68 | 35 | 295 | 134 |
| 18" x 12" | CB-R-P-280220 | 0.54 | 0.42 | 19.5 | 150 | 68 | FB-R-P-280220 | 0.75 | 0.75 | 35 | 325 | 147 |
| 18" x 14" | CB-R-P-280240 | 0.54 | 0.47 | 23.0 | 160 | 73 | FB-R-P-280240 | 0.75 | 0.66 | 35 | 340 | 154 |
| 18" x 16" | CB-R-P-280260 | 0.54 | 0.50 | 18.0 | 145 | 66 | FB-R-P-280260 | 0.75 | 0.70 | 35 | 370 | 168 |
| 20" x 10" | CB-R-P-300200 | 0.57 | 0.40 | 27.5 | 180 | 82 | FB-R-P-300200 | 0.80 | 0.68 | 36 | 345 | 156 |
| 20" x 12" | CB-R-P-300220 | 0.57 | 0.42 | 21.5 | 190 | 86 | FB-R-P-300220 | 0.80 | 0.75 | 36 | 375 | 170 |
| 20" x 14" | CB-R-P-300240 | 0.57 | 0.47 | 26.0 | 195 | 88 | FB-R-P-200140 | 0.80 | 0.66 | 36 | 385 | 175 |
| 20" x 16" | CB-R-P-300260 | 0.57 | 0.50 | 19.0 | 170 | 77 | FB-R-P-300260 | 0.80 | 0.70 | 36 | 415 | 188 |
| 20" x 18" | CB-R-P-300280 | 0.57 | 0.54 | 20.0 | 190 | 86 | FB-R-P-300280 | 0.80 | 0.75 | 36 | 455 | 206 |
| 24" x 12" | CB-R-P-340220 | 0.61 | 0.42 | 22.5 | 240 | 109 | FB-R-P-340220 | 0.89 | 0.75 | 40 | 510 | 231 |
| 24" x 14" | CB-R-P-340240 | 0.61 | 0.47 | 25.0 | 295 | 134 | FB-R-P-340240 | 0.89 | 0.66 | 40 | 520 | 236 |
| 24" x 16" | CB-R-P-340260 | 0.61 | 0.50 | 23.0 | 285 | 129 | FB-R-P-340260 | 0.89 | 0.70 | 40 | 555 | 252 |
| 24" x 18" | CB-R-P-340280 | 0.61 | 0.54 | 21.0 | 290 | 132 | FB-R-P-340280 | 0.89 | 0.75 | 40 | 595 | 270 |
| 24" x 20" | CB-R-P-340300 | 0.61 | 0.57 | 14.0 | 240 | 109 | FB-R-P-340300 | 0.89 | 0.80 | 40 | 635 | 288 |
| 30" x 16" | CB-R-P-400260 | 0.66 | 0.50 | 48.0 | 555 | 252 | FB-R-P-400280 | 1.03 | 0.75 | 46 | 860 | 390 |
| 30" x 18" | CB-R-P-400280 | 0.66 | 0.54 | 46.0 | 567 | 257 | FB-R-P-400300 | 1.03 | 0.80 | 46 | 915 | 415 |
| 30" x 20" | CB-R-P-400300 | 0.66 | 0.57 | 42.0 | 535 | 243 | FB-R-P-400340 | 1.03 | 0.89 | 46 | 1020 | 463 |
| 30" x 24" | CB-R-P-400340 | 0.66 | 0.61 | 33.5 | 458 | 208 | FB-R-P-460300 | 1.15 | 0.80 | 52 | 1255 | 569 |
| 36" x 20" | CB-R-P-460300 | 0.75 | 0.57 | 54.0 | 849 | 385 | FB-R-P-460340 | 1.15 | 0.89 | 52 | 1370 | 621 |
| 36" x 24" | CB-R-P-460340 | 0.75 | 0.61 | 42.0 | 709 | 322 | FB-R-P-460400 | 1.15 | 1.03 | 52 | 1585 | 719 |
| 36" x 30" | CB-R-P-460400 | 0.75 | 0.66 | 33.5 | 657 | 298 | FB-R-P-520300 | 1.28 | 0.80 | 58 | 1670 | 757 |
| 42" x 24" | CB-R-P-520340 | 0.82 | 0.61 | 58.0 | 1167 | 529 | FB-R-P-520340 | 1.28 | 0.89 | 58 | 1810 | 821 |
| 42" x 30" | CB-R-P-520400 | 0.82 | 0.66 | 38.0 | 863 | 391 | FB-R-P-520400 | 1.28 | 1.03 | 58 | 2055 | 932 |
| 42" x 36" | CB-R-P-520460 | 0.82 | 0.74 | 33.5 | 861 | 391 | FB-R-P-520460 | 1.28 | 1.15 | 58 | 2320 | 1052 |
| 48" x 30" | CB-R-P-580400 | 0.90 | 0.66 | 58.0 | 1526 | 692 | FB-R-P-580400 | 1.42 | 1.03 | 64 | 2635 | 1195 |
| 48" x 36" | CB-R-P-580460 | 0.90 | 0.74 | 46.0 | 1355 | 615 | FB-R-P-580460 | 1.42 | 1.15 | 64 | 2940 | 1334 |
| 48" x 42" | CB-R-P-580520 | 0.90 | 0.82 | 33.5 | 1089 | 494 | FB-R-P-580520 | 1.42 | 1.28 | 64 | 3275 | 1486 |

Dimensions in inches.

TAPPED TEE 2" NPT

Mechanical Joint

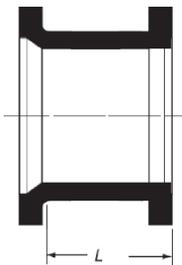


| AWWA C153 – COMPACT BODY | | | | | | |
|--------------------------|-------------|---|-----|----------|-----------|----------|
| SIZE | PART NUMBER | L | T | TAP SIZE | Wt. (Lbs) | Wt. (Kg) |
| 3" | TT-M-130 | 3 | .33 | 2 | 12 | 5 |
| 4" | TT-M-140 | 3 | .34 | 2 | 18 | 8 |
| 6" | TT-M-160 | 3 | .36 | 2 | 26 | 12 |
| 8" | TT-M-180 | 3 | .38 | 2 | 34 | 15 |
| 10" | TT-M-200 | 3 | .40 | 2 | 44 | 20 |
| 12" | TT-M-220 | 3 | .42 | 2 | 54 | 24 |

Dimensions in inches.

ADAPTER

Mechanical Joint x Flange

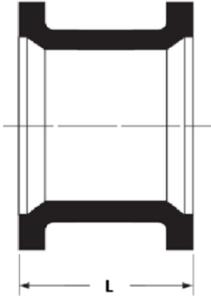


| AWWA C153 – COMPACT BODY | | | | | | |
|--------------------------|-------------|-----|-----|-----------|----------|--|
| SIZE | PART NUMBER | L | T | Wt. (Lbs) | Wt. (Kg) | |
| 3" | AD-MF-130 | 3.5 | .33 | 14 | 6 | |
| 4" | AD-MF-140 | 3.5 | .34 | 23 | 10 | |
| 6" | AD-MF-160 | 3.5 | .36 | 30 | 14 | |
| 8" | AD-MF-180 | 3.5 | .38 | 50 | 23 | |
| 10" | AD-MF-200 | 3.5 | .40 | 62 | 28 | |
| 12" | AD-MF-220 | 3.5 | .42 | 98 | 44 | |
| 14" | AD-MF-240 | 5.0 | .45 | 145 | 66 | |
| 16" | AD-MF-260 | 5.0 | .46 | 179 | 81 | |
| 18" | AD-MF-280 | 5.0 | .47 | 200 | 91 | |
| 20" | AD-MF-300 | 5.0 | .48 | 242 | 110 | |
| 24" | AD-MF-340 | 5.0 | .50 | 312 | 142 | |
| 30" | AD-MF-400 | 7.0 | .66 | 557 | 253 | |
| 36" | AD-MF-460 | 8.5 | .74 | 798 | 362 | |

Dimensions in inches.

ADAPTERS

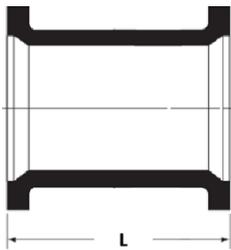
SHORT SLEEVE



| AWWA C153 – COMPACT BODY | | | | | | AWWA C110 – FULL BODY | | | | |
|--------------------------|-------------|------|------|------------|-----------|-----------------------|------|------|-------------|------------|
| SIZE | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | T | Wgt. (Lbs)6 | Wgt. (Kg)7 |
| 3" | CB-SS-M-130 | 7.5 | 0.33 | 13 | 6 | | | | | |
| 4" | CB-SS-M-140 | 7.5 | 0.34 | 17 | 8 | | | | | |
| 6" | CB-SS-M-160 | 7.5 | 0.36 | 28 | 13 | | | | | |
| 8" | CB-SS-M-180 | 7.5 | 0.38 | 38 | 17 | | | | | |
| 10" | CB-SS-M-200 | 7.5 | 0.40 | 49 | 22 | | | | | |
| 12" | CB-SS-M-220 | 7.5 | 0.42 | 56 | 25 | | | | | |
| 14" | CB-SS-M-240 | 9.0 | 0.47 | 111 | 50 | | | | | |
| 16" | CB-SS-M-260 | 9.0 | 0.50 | 123 | 56 | | | | | |
| 18" | CB-SS-M-280 | 9.0 | 0.54 | 160 | 73 | FB-SS-M-280 | 9.5 | 0.96 | 240 | 109 |
| 20" | CB-SS-M-300 | 9.0 | 0.57 | 195 | 88 | FB-SS-M-300 | 9.5 | 1.03 | 275 | 125 |
| 24" | CB-SS-M-340 | 9.0 | 0.61 | 255 | 116 | FB-SS-M-340 | 9.5 | 1.16 | 360 | 163 |
| 30" | CB-SS-M-400 | 15.0 | 0.66 | 500 | 227 | FB-SS-M-400 | 15.0 | 1.37 | 745 | 338 |
| 36" | CB-SS-M-460 | 15.0 | 0.74 | 725 | 329 | FB-SS-M-460 | 15.0 | 1.58 | 1030 | 467 |
| 42" | | | | | | FB-SS-M-520 | 15.0 | 1.78 | 1330 | 603 |
| 48" | | | | | | FB-SS-M-580 | 15.0 | 1.96 | 1645 | 746 |

Dimensions in inches.

LONG SLEEVE



| AWWA C153 – COMPACT BODY | | | | | | AWWA C110 – FULL BODY | | | | |
|--------------------------|-------------|----|------|------------|-----------|-----------------------|----|------|-------------|------------|
| SIZE | PART NUMBER | L | T | Wgt. (Lbs) | Wgt. (Kg) | PART NUMBER | L | T | Wgt. (Lbs)6 | Wgt. (Kg)7 |
| 3" | CB-LS-M-130 | 12 | 0.33 | 18 | 8 | | | | | |
| 4" | CB-LS-M-140 | 12 | 0.34 | 20 | 9 | | | | | |
| 6" | CB-LS-M-160 | 12 | 0.36 | 33 | 15 | | | | | |
| 8" | CB-LS-M-180 | 12 | 0.38 | 46 | 21 | | | | | |
| 10" | CB-LS-M-200 | 12 | 0.40 | 62 | 28 | | | | | |
| 12" | CB-LS-M-220 | 12 | 0.42 | 76 | 34 | | | | | |
| 14" | CB-LS-M-240 | 15 | 0.47 | 140 | 64 | | | | | |
| 16" | CB-LS-M-260 | 15 | 0.50 | 170 | 77 | | | | | |
| 18" | CB-LS-M-280 | 15 | 0.54 | 200 | 91 | FB-LS-M-180 | 15 | 0.96 | 330 | 150 |
| 20" | CB-LS-M-300 | 15 | 0.57 | 255 | 116 | FB-LS-M-300 | 15 | 1.03 | 380 | 172 |
| 24" | CB-LS-M-340 | 15 | 0.61 | 335 | 152 | FB-LS-M-340 | 15 | 1.16 | 505 | 229 |
| 30" | CB-LS-M-400 | 24 | 0.66 | 640 | 290 | FB-LS-M-400 | 24 | 1.37 | 1085 | 492 |
| 36" | CB-LS-M-460 | 24 | 0.74 | 925 | 420 | FB-LS-M-460 | 24 | 1.58 | 1495 | 678 |
| 42" | | | | | | FB-LS-M-520 | 24 | 1.78 | 1940 | 880 |
| 48" | | | | | | FB-LS-M-580 | 24 | 1.96 | 2405 | 1091 |

Dimensions in inches.

SLEEVES

STANDARD GASKET



| SIZE | PART NUMBER | Wt. (Lbs) per 100 units | Wt. (Kg) per 100 units |
|------|--------------|-------------------------|------------------------|
| 2" | S-GASK-M-120 | 20 | 9 |
| 3" | S-GASK-M-130 | 25 | 11 |
| 4" | S-GASK-M-140 | 43 | 20 |
| 6" | S-GASK-M-160 | 59 | 27 |
| 8" | S-GASK-M-180 | 77 | 35 |
| 10" | S-GASK-M-200 | 94 | 43 |
| 12" | S-GASK-M-220 | 111 | 50 |
| 14" | S-GASK-M-240 | 150 | 68 |
| 16" | S-GASK-M-260 | 200 | 91 |
| 18" | S-GASK-M-280 | 231 | 105 |
| 20" | S-GASK-M-300 | 269 | 122 |
| 24" | S-GASK-M-340 | 300 | 136 |
| 30" | S-GASK-M-400 | 450 | 204 |
| 36" | S-GASK-M-460 | 600 | 272 |
| 42" | S-GASK-M-520 | 800 | 363 |
| 48" | S-GASK-M-580 | 1000 | 454 |

Dimensions in inches.

TRANSITION GASKET



| SIZE | PART NUMBER | Wt. (Lbs) per 100 units | Wt. (Kg) per 100 units |
|------|--------------|-------------------------|------------------------|
| 2" | T-GASK-M-120 | 20 | 9 |
| 3" | T-GASK-M-130 | 25 | 11 |
| 4" | T-GASK-M-140 | 43 | 20 |
| 6" | T-GASK-M-160 | 59 | 27 |
| 8" | T-GASK-M-180 | 77 | 35 |
| 10" | T-GASK-M-200 | 94 | 43 |
| 12" | T-GASK-M-220 | 111 | 50 |

Dimensions in inches.

STANDARD GLAND



| SIZE | PART NUMBER | Wt. (Lbs) | Wt. (Kg) |
|------|-------------|-----------|----------|
| 2" | S-GND-120 | 3 | 1 |
| 3" | S-GND-130 | 4 | 2 |
| 4" | S-GND-140 | 5 | 2 |
| 6" | S-GND-160 | 6 | 3 |
| 8" | S-GND-180 | 7 | 3 |
| 10" | S-GND-200 | 10 | 5 |
| 12" | S-GND-220 | 15 | 7 |
| 14" | S-GND-240 | 24 | 11 |
| 16" | S-GND-260 | 28 | 13 |
| 18" | S-GND-280 | 31 | 14 |
| 20" | S-GND-300 | 42 | 19 |
| 24" | S-GND-340 | 50 | 23 |
| 30" | S-GND-400 | 120 | 54 |
| 36" | S-GND-460 | 185 | 84 |
| 42" | S-GND-520 | 235 | 107 |
| 48" | S-GND-580 | 290 | 132 |

Dimensions in inches.

T BOLT & NUT



| SIZE | PART NUMBER | Wt. (Lbs) | Wt. (Kg) |
|---------------|--------------|-----------|----------|
| 5/8" x 3" | TBOLT-063130 | 0.55 | 0.24 |
| 3/4" x 3 1/2" | TBOLT-075135 | 0.75 | 0.34 |
| 3/4" x 4" | TBOLT-075136 | 1.00 | 0.45 |
| 3/4" x 4 1/2" | TBOLT-075145 | 1.25 | 0.56 |
| 3/4" x 5" | TBOLT-075150 | 1.50 | 0.68 |
| 3/4" x 6" | TBOLT-075160 | 2.00 | 0.90 |
| 3/4" x 7" | TBOLT-075170 | 2.25 | 1.02 |
| 1" x 6" | TBOLT-100160 | 4.50 | 2.04 |

Dimensions in inches.

T-BOLTS