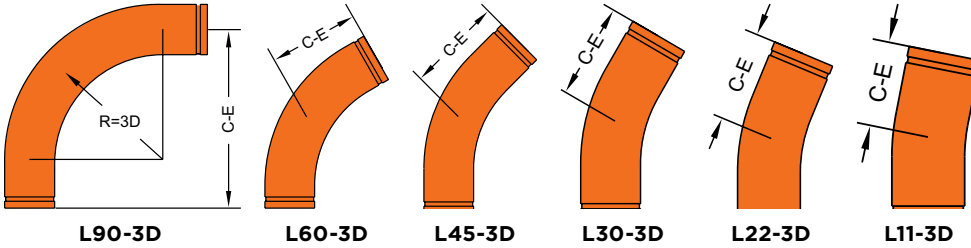


# CPVC/UPVC LONG RADIUS ELBOW/BEND

Long Radius 90° Elbows (Bends) 3D, 5D and 6D

- Long radius 90° elbows 3D, 5D, and 6D in sizes up to and including 4" are provided with 4" (102 mm) long tangents, sizes 5" to 10" are provided with 1D long tangents and sizes 12" to 30" are provided with 12" (305 mm) long tangents.
- End Preparation: Roll-grooved to AWWA C606-04 and or ISO/FDIS 6182-12. For dimensional tolerances of cast fittings, refer to ISO/FDIS 6182-12 Table. Plain-end, beveled end or cut-grooved end are also available upon request.
- Material: standard wall steel pipe to ASTM A53, Grade B. Other materials available on request.
- C to E tolerances: 2" through 6" :  $\pm 1/8"$  (3.2 mm); 8" through 16" :  $\pm 1/4"$  (6.4 mm); 18" through 24" :  $\pm 3/8"$  (9.5 mm) ; 28" :  $\pm 1/2"$  (12.7 mm)
- All weights are approximate, based on calculated weight of pipe.

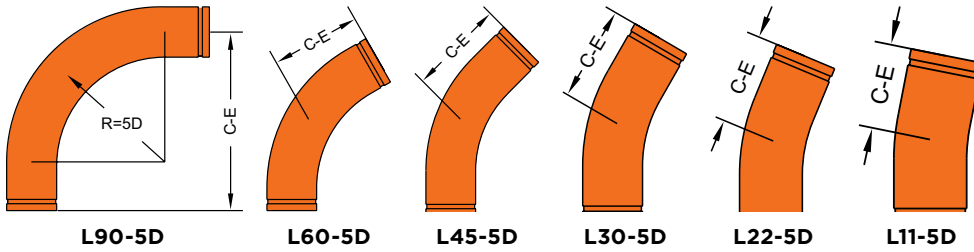
|                  |  |
|------------------|--|
| Job Name:        |  |
| Job Location:    |  |
| Engineer:        |  |
| Contractor:      |  |
| Tag:             |  |
| PO#:             |  |
| Rep:             |  |
| Wholesale Dist.: |  |



## DIMENSIONS

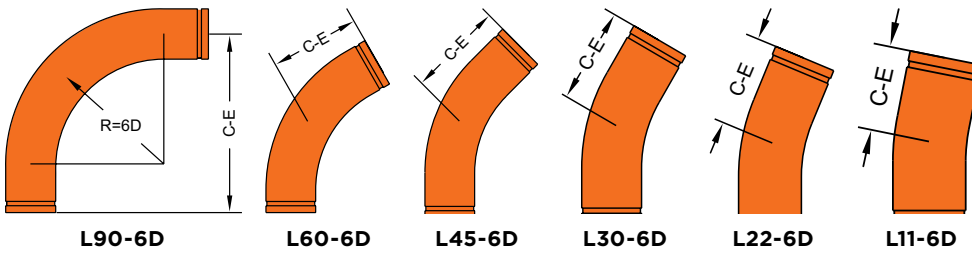
| NOMINAL SIZE | PIPE O.D. | L90-3D 90° ELBOW |         | L60-3D 60° ELBOW |        | L45-3D 45° ELBOW |        | L30-3D 30° ELBOW |        | L22-3D 22-1/2° ELBOW |        | L11-3D 11-1/4° ELBOW |        |
|--------------|-----------|------------------|---------|------------------|--------|------------------|--------|------------------|--------|----------------------|--------|----------------------|--------|
|              |           | C - E            | WEIGHT  | C - E            | WEIGHT | C - E            | WEIGHT | C - E            | WEIGHT | C - E                | WEIGHT | C - E                | WEIGHT |
| in           | in        | in               | lb      | in               | lb     | in               | lb     | in               | lb     | in                   | lb     | in                   | lb     |
| mm           | mm        | mm               | kg      | mm               | kg     | mm               | kg     | mm               | kg     | mm                   | kg     | mm                   | kg     |
| 2            | 2.375     | 10.0             | 5.5     | 7.50             | 4.3    | 6.50             | 3.7    | 5.75             | 3.4    | 5.25                 | 3.2    | 4.50                 | 2.8    |
| 50           | 60.3      | 254              | 2.5     | 191              | 2.0    | 165              | 1.7    | 146              | 1.5    | 133                  | 1.5    | 114                  | 1.3    |
| 2-1/2        | 2.875     | 11.5             | 9.9     | 8.25             | 7.7    | 7.25             | 6.7    | 6.00             | 5.8    | 5.50                 | 5.3    | 4.75                 | 4.6    |
| 65           | 73.0      | 292              | 4.5     | 210              | 3.5    | 184              | 3.0    | 152              | 2.6    | 140                  | 2.4    | 121                  | 2.1    |
| 3            | 3.500     | 13.0             | 14.6    | 9.25             | 11.0   | 7.75             | 10.1   | 6.50             | 8.0    | 5.75                 | 7.3    | 5.00                 | 6.2    |
| 80           | 88.9      | 330              | 6.6     | 235              | 5.0    | 197              | 4.6    | 165              | 3.6    | 146                  | 3.3    | 127                  | 2.8    |
| 3-1/2        | 4.000     | 14.5             | 18.6    | 10.00            | 14.4   | 8.50             | 12.0   | 6.75             | 10.2   | 6.00                 | 9.2    | 5.00                 | 7.6    |
| 90           | 101.6     | 368              | 8.4     | 254              | 6.5    | 216              | 5.6    | 171              | 4.6    | 152                  | 4.2    | 127                  | 3.4    |
| 4            | 4.500     | 16.0             | 22.4    | 11.00            | 18.5   | 9.00             | 14.7   | 7.25             | 12.8   | 6.50                 | 11.4   | 5.25                 | 9.3    |
| 100          | 114.3     | 406              | 10.2    | 279              | 8.4    | 229              | 7.0    | 184              | 5.8    | 165                  | 5.2    | 133                  | 4.2    |
| 5            | 5.563     | 20.0             | 40.5    | 13.75            | 31.3   | 11.25            | 26.9   | 9.00             | 21.8   | 8.00                 | 19.4   | 6.50                 | 15.8   |
| 125          | 141.3     | 508              | 18.4    | 349              | 14.2   | 286              | 12.2   | 229              | 9.9    | 203                  | 8.8    | 165                  | 7.2    |
| 6            | 6.625     | 24.0             | 60.7    | 16.50            | 48.8   | 13.50            | 39.7   | 10.75            | 33.9   | 9.50                 | 30.1   | 7.75                 | 24.6   |
| 150          | 168.3     | 610              | 27.5    | 419              | 22.1   | 343              | 18.0   | 273              | 15.4   | 241                  | 13.7   | 197                  | 11.2   |
| 8            | 8.625     | 32.0             | 132.3   | 22.00            | 97.9   | 18.00            | 86.0   | 14.50            | 68.0   | 12.75                | 60.5   | 10.50                | 49.3   |
| 200          | 219.1     | 813              | 60.0    | 559              | 44.4   | 457              | 39.0   | 368              | 30.8   | 324                  | 27.4   | 267                  | 22.4   |
| 10           | 10.750    | 40.0             | 211.6   | 27.25            | 173.4  | 22.50            | 136.7  | 18.00            | 120.5  | 16.00                | 107.2  | 13.00                | 87.3   |
| 250          | 273.0     | 1016             | 96.0    | 692              | 78.7   | 572              | 62.0   | 457              | 54.7   | 406                  | 48.6   | 330                  | 39.6   |
| 12           | 12.750    | 48.0             | 319.7   | 32.75            | 254.8  | 27.00            | 205.0  | 21.75            | 177.0  | 19.25                | 157.5  | 15.50                | 128.3  |
| 300          | 323.9     | 1219             | 145.0   | 832              | 115.6  | 686              | 93.0   | 552              | 80.3   | 489                  | 71.4   | 394                  | 58.2   |
| 14           | 14.000    | 54.0             | 390.2   | 38.25            | 327.3  | 31.50            | 227.3  | 25.25            | 227.3  | 22.50                | 202.3  | 18.25                | 164.8  |
| 350          | 355.6     | 1372             | 177.0   | 972              | 148.5  | 800              | 103.1  | 641              | 103.1  | 572                  | 91.8   | 464                  | 74.8   |
| 16           | 16.000    | 60.0             | 546.8   | 43.75            | 429.0  | 36.00            | 350.5  | 29.00            | 297.9  | 25.25                | 265.2  | 20.75                | 216.0  |
| 400          | 406.4     | 1524             | 248.0   | 1111             | 194.6  | 914              | 159.0  | 737              | 135.1  | 648                  | 120.3  | 527                  | 98     |
| 18           | 18.000    | 66.0             | 639.2   | 49.25            | 544.4  | 40.25            | 461.3  | 32.50            | 378.1  | 28.75                | 336.5  | 23.35                | 274.1  |
| 450          | 457.2     | 1676             | 290.6   | 1251             | 246.9  | 1029             | 209.2  | 826              | 171.5  | 730                  | 152.6  | 593                  | 124.3  |
| 20           | 20.000    | 72.0             | 778.6   | 54.75            | 673.5  | 45.00            | 568.8  | 36.00            | 467.8  | 32.00                | 416.3  | 26.00                | 339.2  |
| 500          | 508.0     | 1829             | 353.15  | 1391             | 305.5  | 1143             | 258.0  | 914              | 212.2  | 813                  | 188.8  | 660                  | 153.9  |
| 24           | 24.000    | 84.0             | 1442.5  | 65.50            | 1297.5 | 53.75            | 1099.6 | 43.25            | 903.5  | 38.25                | 804.5  | 31.00                | 655.1  |
| 600          | 609.6     | 2134             | 654.3   | 1664             | 588.5  | 1365             | 498.8  | 1099             | 409.8  | 972                  | 364.9  | 787                  | 297.2  |
| 28           | 28.000    | 95.0             | 1897.5  | 70.00            | 1714.5 | 62.00            | 1486.6 | 47.00            | 1150.7 | 45.00                | 1109.3 | 35.00                | 868.6  |
| 700          | 711.2     | 2413             | 860.7   | 1778             | 777.7  | 1575             | 674.3  | 1194             | 522.0  | 1143                 | 503.2  | 889                  | 394.0  |
| 30           | 30        | 102              | -2200.0 |                  |        |                  |        |                  |        |                      |        |                      |        |
| 750          | 762       | 2591             | -997.9  |                  |        |                  |        |                  |        |                      |        |                      |        |

\* For 24" - 30": Made by XS (12.7mm) carbon steel pipe to ASTM A53.



## DIMENSIONS

| NOMINAL<br>SIZE | PIPE<br>O.D. | L90-5D 90° ELBOW |        | L60-5D 60° ELBOW |        | L45-5D 45° ELBOW |        | L30-5D 30° ELBOW |        | L22-5D 22-1/2° ELBOW |        | L11-5D 11-1/4° ELBOW |        |
|-----------------|--------------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|----------------------|--------|----------------------|--------|
|                 |              | C - E            | WEIGHT | C - E            | WEIGHT | C - E            | WEIGHT | C - E            | WEIGHT | C - E                | WEIGHT | C - E                | WEIGHT |
| in              | in           | in               | Lbs    | in               | lb     | in               | lb     | in               | lb     | in                   | lb     | in                   | lb     |
| mm              | mm           | mm               | Kgs    | mm               | kg     | mm               | kg     | mm               | kg     | mm                   | kg     | mm                   | kg     |
| 2               | 2.375        | 14.00            | 7.2    | 9.75             | 5.6    | 8.25             | 4.8    | 6.75             | 4.0    | 6.00                 | 3.6    | 5.00                 | 3.0    |
| 50              | 60.3         | 356              | 3.3    | 248              | 2.5    | 210              | 2.2    | 171              | 1.8    | 152                  | 1.6    | 127                  | 1.4    |
| 2-1/2           | 2.875        | 16.50            | 13.3   | 11.25            | 10.2   | 9.25             | 8.6    | 7.50             | 7.0    | 6.50                 | 6.2    | 5.25                 | 5.0    |
| 65              | 73.0         | 419              | 6.1    | 286              | 4.6    | 235              | 3.9    | 191              | 3.2    | 165                  | 2.8    | 133                  | 2.3    |
| 3               | 3.500        | 19.00            | 19.9   | 12.75            | 15.0   | 10.25            | 12.5   | 8.00             | 10.0   | 7.00                 | 8.8    | 5.50                 | 6.9    |
| 80              | 88.9         | 483              | 9.0    | 324              | 6.8    | 260              | 5.7    | 203              | 4.5    | 178                  | 4.0    | 140                  | 3.1    |
| 3-1/2           | 4.000        | 21.50            | 26.9   | 12.25            | 20.0   | 11.25            | 16.5   | 8.75             | 13.0   | 7.50                 | 11.3   | 5.75                 | 8.7    |
| 90              | 101.6        | 546              | 12.2   | 311              | 9.1    | 286              | 7.5    | 222              | 5.9    | 191                  | 5.1    | 146                  | 3.9    |
| 4               | 4.500        | 24.00            | 35.4   | 15.50            | 26.0   | 12.50            | 21.3   | 9.50             | 16.6   | 8.00                 | 14.3   | 6.00                 | 10.7   |
| 100             | 114.3        | 610              | 16.1   | 394              | 11.8   | 318              | 9.7    | 241              | 7.5    | 203                  | 6.5    | 152                  | 4.9    |
| 5               | 5.563        | 30.00            | 59.9   | 19.50            | 44.1   | 15.50            | 36.1   | 11.75            | 28.1   | 10.00                | 24.1   | 7.50                 | 18.2   |
| 125             | 141.3        | 762              | 27.2   | 495              | 20.0   | 394              | 16.4   | 298              | 12.7   | 254                  | 10.9   | 191                  | 8.3    |
| 6               | 6.625        | 36.00            | 93.3   | 23.25            | 68.6   | 18.50            | 56.2   | 14.00            | 43.8   | 12.00                | 37.6   | 9.00                 | 28.3   |
| 150             | 168.3        | 914              | 42.4   | 591              | 31.1   | 470              | 25.5   | 356              | 19.9   | 305                  | 17.1   | 229                  | 12.8   |
| 8               | 8.625        | 48.00            | 187.4  | 31.00            | 137.7  | 24.50            | 112.8  | 18.75            | 87.9   | 16.00                | 75.4   | 12.00                | 56.8   |
| 200             | 219.1        | 1219             | 85.2   | 787              | 62.5   | 622              | 51.2   | 476              | 39.9   | 406                  | 34.2   | 305                  | 25.8   |
| 10              | 10.750       | 60.00            | 332.0  | 39.00            | 244.1  | 30.75            | 199.9  | 23.50            | 155.8  | 20.00                | 133.7  | 15.00                | 100.6  |
| 250             | 273.1        | 1524             | 150.9  | 991              | 110.7  | 781              | 90.7   | 597              | 70.7   | 508                  | 60.6   | 381                  | 45.6   |
| 12              | 12.750       | 72.00            | 488.0  | 46.75            | 358.6  | 37.00            | 293.7  | 28.00            | 228.9  | 24.00                | 196.4  | 18.00                | 147.8  |
| 300             | 323.9        | 1829             | 221.8  | 1187             | 162.7  | 940              | 133.2  | 711              | 103.8  | 610                  | 89.1   | 457                  | 67.0   |
| 14              | 14.000       | 82.00            | 608.5  | 54.50            | 460.7  | 43.00            | 377.3  | 32.75            | 294.0  | 28.00                | 252.3  | 21.00                | 189.8  |
| 350             | 355.6        | 2083             | 276.6  | 1384             | 209    | 1092             | 171.1  | 832              | 133.4  | 711                  | 114.4  | 533                  | 86.1   |
| 16              | 16.000       | 92.00            | 779.7  | 62.25            | 603.8  | 49.25            | 494.5  | 37.50            | 385.3  | 32.00                | 330.7  | 24.00                | 248.8  |
| 400             | 406.4        | 2337             | 354.4  | 1581             | 273.9  | 1251             | 224.3  | 953              | 174.8  | 813                  | 150    | 610                  | 112.9  |
| 18              | 18.000       | 102.00           | 971.4  | 70.00            | 766.2  | 55.25            | 627.6  | 42.25            | 489.0  | 36.00                | 419.7  | 27.00                | 315.7  |
| 450             | 457.2        | 2591             | 441.5  | 1778             | 347.5  | 1403             | 284.7  | 1073             | 221.8  | 914                  | 190.4  | 686                  | 143.2  |
| 20              | 20.000       | 112.00           | 1184.9 | 77.75            | 947.9  | 61.50            | 776.4  | 46.75            | 605.0  | 40.00                | 519.2  | 30.00                | 390.6  |
| 500             | 508.0        | 2845             | 538.6  | 1975             | 430.0  | 1562             | 352.2  | 1187             | 274.4  | 1016                 | 235.5  | 762                  | 177.2  |
| 24              | 24.000       | 132.00           | 1674.9 | 93.25            | 1369.3 | 73.75            | 1121.6 | 56.25            | 873.9  | 48.00                | 750.1  | 35.75                | 564.3  |
| 600             | 609.6        | 3353             | 761.3  | 2369             | 621.1  | 1873             | 508.7  | 1429             | 396.4  | 1219                 | 340.2  | 908                  | 256.0  |



## DIMENSIONS

| NOMINAL<br>SIZE | PIPE<br>O.D. | L90-6D 90° ELBOW |        | L60-6D 60° ELBOW |        | L45-6D 45° ELBOW |        | L30-6D 30° ELBOW |        | L22-6D 22-1/2° ELBOW |        | L11-6D 11-1/4° ELBOW |        |
|-----------------|--------------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|----------------------|--------|----------------------|--------|
|                 |              | C - E            | WEIGHT | C - E            | WEIGHT | C - E            | WEIGHT | C - E            | WEIGHT | C - E                | WEIGHT | C - E                | WEIGHT |
| in              | in           | in               | lb     | in               | lb     | in               | lb     | in               | lb     | in                   | lb     | in                   | lb     |
| mm              | mm           | mm               | kg     | mm               | kg     | mm               | kg     | mm               | kg     | mm                   | kg     | mm                   | kg     |
| 2               | 2.375        | 16.00            | 8.2    | 11.00            | 6.3    | 9.00             | 5.3    | 7.25             | 4.3    | 6.50                 | 3.9    | 5.25                 | 3.2    |
| 50              | 60.3         | 406              | 3.7    | 279              | 2.9    | 229              | 2.4    | 184              | 2.0    | 165                  | 1.8    | 133                  | 1.5    |
| 2-1/2           | 2.875        | 19.00            | 15.2   | 12.75            | 11.4   | 10.25            | 9.5    | 8.00             | 7.7    | 7.00                 | 6.7    | 5.50                 | 5.3    |
| 65              | 73.0         | 483              | 6.9    | 324              | 5.2    | 260              | 4.3    | 203              | 3.5    | 178                  | 3.0    | 140                  | 2.4    |
| 3               | 3.500        | 22.00            | 22.9   | 14.50            | 17.0   | 11.50            | 14     | 8.75             | 11.0   | 7.50                 | 9.5    | 5.75                 | 7.3    |
| 80              | 88.9         | 559              | 10.4   | 368              | 7.7    | 292              | 6.4    | 222              | 5.0    | 191                  | 4.3    | 146                  | 3.3    |
| 3-1/2           | 4.000        | 25.00            | 31.1   | 16.25            | 22.8   | 12.75            | 18.6   | 9.75             | 14.4   | 8.25                 | 12.3   | 6.00                 | 9.2    |
| 90              | 101.6        | 635              | 14.1   | 413              | 10.3   | 324              | 8.4    | 248              | 6.5    | 210                  | 5.6    | 152                  | 4.2    |
| 4               | 4.500        | 28.00            | 41.0   | 18.00            | 29.8   | 14.00            | 24.1   | 10.50            | 18.5   | 8.75                 | 15.7   | 6.50                 | 11.4   |
| 100             | 114.3        | 711              | 18.6   | 457              | 13.5   | 356              | 10.9   | 267              | 8.4    | 222                  | 7.1    | 165                  | 5.2    |
| 5               | 5.563        | 35.00            | 69.5   | 22.25            | 50.5   | 17.50            | 40.9   | 13.00            | 31.3   | 11.00                | 26.5   | 8.00                 | 19.4   |
| 125             | 141.3        | 889              | 31.6   | 565              | 22.9   | 445              | 18.6   | 330              | 14.2   | 279                  | 12.0   | 203                  | 8.8    |
| 6               | 6.625        | 42.00            | 108.2  | 26.75            | 78.6   | 21.00            | 63.7   | 15.75            | 48.8   | 13.25                | 41.3   | 9.50                 | 30.1   |
| 150             | 168.3        | 1067             | 49.2   | 679              | 35.7   | 533              | 28.9   | 400              | 22.1   | 337                  | 18.7   | 241                  | 13.7   |
| 8               | 8.625        | 56.00            | 217.2  | 35.75            | 157.7  | 28.00            | 127.8  | 21.00            | 97.9   | 17.50                | 82.9   | 12.75                | 60.5   |
| 200             | 219.1        | 1422             | 98.7   | 908              | 71.5   | 711              | 58.0   | 533              | 44.4   | 445                  | 37.6   | 324                  | 27.4   |
| 10              | 10.750       | 70.00            | 384.9  | 44.75            | 279.4  | 35.00            | 226.4  | 26.00            | 173.4  | 22.00                | 146.9  | 16.00                | 107.2  |
| 250             | 273.1        | 1778             | 174.9  | 1137             | 126.7  | 889              | 102.7  | 660              | 78.7   | 559                  | 66.6   | 406                  | 48.6   |
| 12              | 12.750       | 84.00            | 565.8  | 53.50            | 410.5  | 41.75            | 332.7  | 31.25            | 254.8  | 26.25                | 215.9  | 19.00                | 157.5  |
| 300             | 323.9        | 2134             | 257.2  | 1359             | 186.2  | 1060             | 150.9  | 794              | 115.6  | 667                  | 97.9   | 483                  | 71.4   |
| 14              | 14.000       | 96.00            | 708.4  | 62.50            | 527.3  | 48.75            | 427.3  | 36.50            | 327.3  | 30.75                | 277.3  | 22.25                | 202.3  |
| 350             | 355.6        | 2438             | 322.0  | 1588             | 239.2  | 1238             | 193.8  | 927              | 148.5  | 781                  | 125.8  | 565                  | 91.8   |
| 16              | 16.000       | 108.00           | 910.6  | 71.50            | 691.1  | 55.75            | 560.1  | 41.75            | 429.0  | 35.25                | 363.5  | 25.50                | 265.2  |
| 400             | 406.4        | 2743             | 413.9  | 1816             | 313.5  | 1416             | 254.1  | 1060             | 194.6  | 895                  | 164.9  | 648                  | 120.3  |
| 18              | 18.000       | 120.00           | 1137.4 | 80.50            | 877.1  | 62.75            | 710.7  | 47.00            | 544.4  | 39.50                | 461.3  | 28.75                | 336.5  |
| 450             | 457.2        | 3048             | 517.0  | 2045             | 397.8  | 1594             | 322.4  | 1194             | 246.9  | 1003                 | 209.2  | 730                  | 152.6  |
| 20              | 20.000       | 132.00           | 1390.4 | 89.25            | 1085.1 | 69.75            | 879.3  | 52.25            | 673.5  | 44.00                | 570.7  | 31.75                | 416.3  |
| 500             | 508.0        | 3353             | 632.0  | 2267             | 492.2  | 1772             | 398.8  | 1327             | 305.5  | 1118                 | 258.9  | 806                  | 188.8  |
| 24              | 24.000       | 156.00           | 1972.1 | 107.25           | 1567.5 | 83.75            | 1270.3 | 62.50            | 973.0  | 52.34                | 824.4  | 38.25                | 601.4  |
| 600             | 609.6        | 3962             | 896.4  | 2724             | 711    | 2127             | 576.2  | 1588             | 441.3  | 1329                 | 373.9  | 972                  | 272.8  |