

LONG RADIUS 90° ELBOWS (BENDS) 3D, 5D AND 6D

PRODUCT DESCRIPTION

- 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 3.
 - 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" : $\pm \frac{1}{8}$ " (3.2 mm); 8" through 16" : $\pm \frac{1}{4}$ " (6.4 mm);
 18" through 24" : $\pm \frac{3}{8}$ " (9.5 mm) ; 28" : $\pm 1\frac{1}{2}$ " (12.7 mm)
- All weights are approximate, based on calculated weight of pipe.

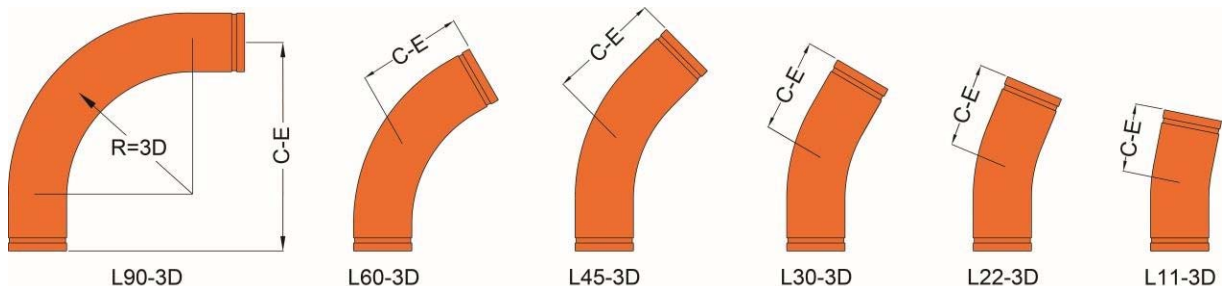


L90-3D 2½"

MODEL L90-3D WROUGHT 3D 90° ELBOW L60-3D WROUGHT 3D 60° ELBOW L45-3D WROUGHT 3D 45° ELBOW L30-3D WROUGHT 3D 30° ELBOW L22-3D WROUGHT 3D 22½ ° ELBOW L11-3D WROUGHT 3D 11¼ ° ELBOW



Full warranty terms
can be found on
www.shurjoint.com



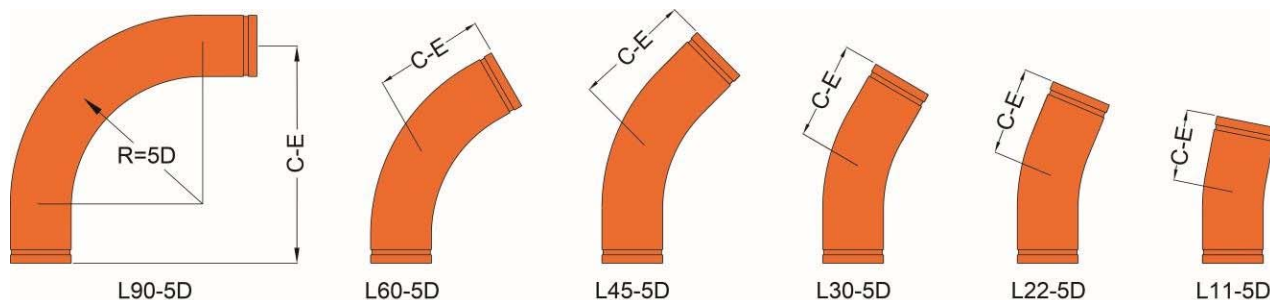
Models L90-3D / L60-3D / L45-3D / L30-3D / L22-3D / L11-3D Wrought Elbows													
Nominal Pipe Size	Pipe O.D.	L90-3D 90° Elbow		L60-3D 60° Elbow		L45-3D 45° Elbow		L30-3D 30° Elbow		L22-3D 22½° Elbow		L11-3D 11¼° Elbow	
		C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
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
2½	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
3½	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

Models L90-3D / L60-3D / L45-3D / L30-3D / L22-3D / L11-3D Wrought Elbows

Nominal Pipe Size	Pipe O.D.	L90-3D 90° Elbow		L60-3D 60° Elbow		L45-3D 45° Elbow		L30-3D 30° Elbow		L22-3D 22½° Elbow		L11-3D 11¼° Elbow	
		C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight
in mm	in mm	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs
5 125	5.563 141.3	20.0 508	40.5 18.4	13.75 349	31.3 14.2	11.25 286	26.9 12.2	9.00 229	21.8 9.9	8.00 203	19.4 8.8	6.50 165	15.8 7.2
6 150	6.625 168.3	24.0 610	60.7 27.5	16.50 419	48.8 22.1	13.50 343	39.7 18.0	10.75 273	33.9 15.4	9.50 241	30.1 13.7	7.75 197	24.6 11.2
8 200	8.625 219.1	32.0 813	132.3 60.0	22.00 559	97.9 44.4	18.00 457	86.0 39.0	14.50 368	68.0 30.8	12.75 324	60.5 27.4	10.50 267	49.3 22.4
10 250	10.750 273.0	40.0 1016	211.6 96.0	27.25 692	173.4 78.7	22.50 572	136.7 62.0	18.00 457	120.5 54.7	16.00 406	107.2 48.6	13.00 330	87.3 39.6
12 300	12.750 323.9	48.0 1219	319.7 145.0	32.75 832	254.8 115.6	27.00 686	205.0 93.0	21.75 552	177.0 80.3	19.25 489	157.5 71.4	15.50 394	128.3 58.2
14 350	14.000 355.6	54.0 1372	390.2 177.0	38.25 972	327.3 148.5	31.50 800	227.3 103.1	25.25 641	227.3 103.1	22.50 572	202.3 91.8	18.25 464	164.8 74.8
16 400	16.000 406.4	60.0 1524	546.8 248.0	43.75 1111	429.0 194.6	36.00 914	350.5 159.0	29.00 737	297.9 135.1	25.25 648	265.2 120.3	20.75 527	216.0 98
18 450	18.000 457.2	66.0 1676	639.2 290.6	49.25 1251	544.4 246.9	40.25 1029	461.3 209.2	32.50 826	378.1 171.5	28.75 730	336.5 152.6	23.35 593	274.1 124.3
20 500	20.000 508.0	72.0 1829	778.6 353.15	54.75 1391	673.5 305.5	45.00 1143	568.8 258.0	36.00 914	467.8 212.2	32.00 813	416.3 188.8	26.00 660	339.2 153.9
24 600	24.000 609.6	84.0 2134	1442.5 654.3	65.50 1664	1297.5 588.5	53.75 1365	1099.6 498.8	43.25 1099	903.5 409.8	38.25 972	804.5 364.9	31.00 787	655.1 297.2
28 700	28.000 711.2	96.0 2438	1897.5 860.7	70.00 1778	1714.5 777.7	62.00 1575	1486.6 674.3	47.00 1194	1150.7 522.0	45.00 1143	1109.3 503.2	35.00 889	868.6 394.0
30 750	30.000 762.0	102.0 2591	~2200.0 ~997.9										

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

MODEL L90-5D WROUGHT 5D 90° ELBOW
L60-5D WROUGHT 5D 60° ELBOW
L45-5D WROUGHT 5D 45° ELBOW
L30-5D WROUGHT 5D 30° ELBOW
L22-5D WROUGHT 5D 22½° ELBOW
L11-5D WROUGHT 5D 11¼° ELBOW

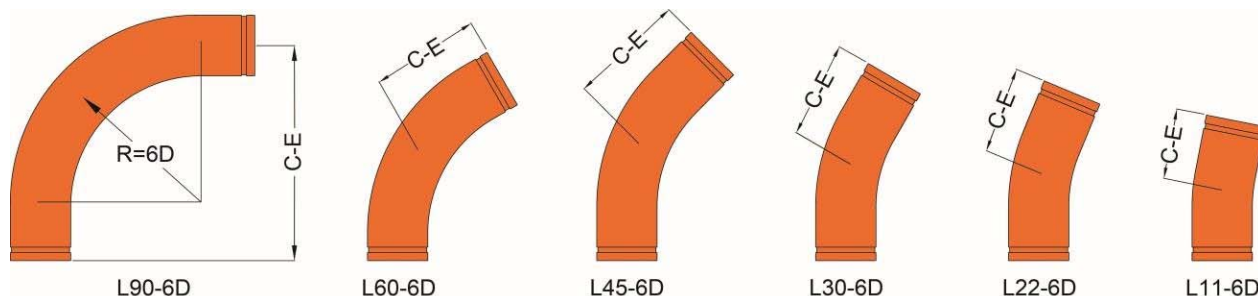

Models L90-5D / L60-5D / L45-5D / L30-5D / L22-5D / L11-5D Wrought Elbows

Nominal Pipe Size	Pipe O.D.	L90-5D 90° Elbow		L60-5D 60° Elbow		L45-5D 45° Elbow		L30-5D 30° Elbow		L22-5D 22½° Elbow		L11-5D 11¼° Elbow	
		C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight
in mm	in mm	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs
2 50	2.375 60.3	14.00 356	7.2 3.3	9.75 248	5.6 2.5	8.25 210	4.8 2.2	6.75 171	4.0 1.8	6.00 152	3.6 1.6	5.00 127	3.0 1.4
2½ 65	2.875 73.0	16.50 419	13.3 6.1	11.25 286	10.2 4.6	9.25 235	8.6 3.9	7.50 191	7.0 3.2	6.50 165	6.2 2.8	5.25 133	5.0 2.3
3 80	3.500 88.9	19.00 483	19.9 9.0	12.75 324	15.0 6.8	10.25 260	12.5 5.7	8.00 203	10.0 4.5	7.00 178	8.8 4.0	5.50 140	6.9 3.1
3½ 90	4.000 101.6	21.50 546	26.9 12.2	12.25 311	20.0 9.1	11.25 286	16.5 7.5	8.75 222	13.0 5.9	7.50 191	11.3 5.1	5.75 146	8.7 3.9
4 100	4.500 114.3	24.00 610	35.4 16.1	15.50 394	26.0 11.8	12.50 318	21.3 9.7	9.50 241	16.6 7.5	8.00 203	14.3 6.5	6.00 152	10.7 4.9
5 125	5.563 141.3	30.00 762	59.9 27.2	19.50 495	44.1 20.0	15.50 394	36.1 16.4	11.75 298	28.1 12.7	10.00 254	24.1 10.9	7.50 191	18.2 8.3
6 150	6.625 168.3	36.00 914	93.3 42.4	23.25 591	68.6 31.1	18.50 470	56.2 25.5	14.00 356	43.8 19.9	12.00 305	37.6 17.1	9.00 229	28.3 12.8

Models L90-5D / L60-5D / L45-5D / L30-5D / L22-5D / L11-5D Wrought Elbows

Nominal Pipe Size	Pipe O.D.	L90-5D 90° Elbow		L60-5D 60° Elbow		L45-5D 45° Elbow		L30-5D 30° Elbow		L22-5D 22½° Elbow		L11-5D 11¼° Elbow	
		C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight
in mm	in mm	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs
8 200	8.625 219.1	48.00 1219	187.4 85.2	31.00 787	137.7 62.5	24.50 622	112.8 51.2	18.75 476	87.9 39.9	16.00 406	75.4 34.2	12.00 305	56.8 25.8
10 250	10.750 273.1	60.00 1524	332.0 150.9	39.00 991	244.1 110.7	30.75 781	199.9 90.7	23.50 597	155.8 70.7	20.00 508	133.7 60.6	15.00 381	100.6 45.6
12 300	12.750 323.9	72.00 1829	488.0 221.8	46.75 1187	358.6 162.7	37.00 940	293.7 133.2	28.00 711	228.9 103.8	24.00 610	196.4 89.1	18.00 457	147.8 67.0
14 350	14.000 355.6	82.00 2083	608.5 276.6	54.50 1384	460.7 209	43.00 1092	377.3 171.1	32.75 832	294.0 133.4	28.00 711	252.3 114.4	21.00 533	189.8 86.1
16 400	16.000 406.4	92.00 2337	779.7 354.4	62.25 1581	603.8 273.9	49.25 1251	494.5 224.3	37.50 953	385.3 174.8	32.00 813	330.7 150	24.00 610	248.8 112.9
18 450	18.000 457.2	102.00 2591	971.4 441.5	70.00 1778	766.2 347.5	55.25 1403	627.6 284.7	42.25 1073	489.0 221.8	36.00 914	419.7 190.4	27.00 686	315.7 143.2
20 500	20.000 508.0	112.00 2845	1184.9 538.6	77.75 1975	947.9 430.0	61.50 1562	776.4 352.2	46.75 1187	605.0 274.4	40.00 1016	519.2 235.5	30.00 762	390.6 177.2
24 600	24.000 609.6	132.00 3353	1674.9 761.3	93.25 2369	1369.3 621.1	73.75 1873	1121.6 508.7	56.25 1429	873.9 396.4	48.00 1219	750.1 340.2	35.75 908	564.3 256.0

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L22-6D WROUGHT 6D 22½ ° ELBOW
L11-6D WROUGHT 6D 11¼ ° ELBOW


Models L90-6D / L60-6D / L45-6D / L30-6D / L22-6D / L11-6D Wrought Elbows

Nominal Pipe Size	Pipe O.D.	L90-6D 90° Elbow		L60-6D 60° Elbow		L45-6D 45° Elbow		L30-6D 30° Elbow		L22-6D 22½° Elbow		L11-6D 11¼° Elbow	
		C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight
in mm	in mm	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs
2 50	2.375 60.3	16.00 406	8.2 3.7	11.00 279	6.3 2.9	9.00 229	5.3 2.4	7.25 184	4.3 2.0	6.50 165	3.9 1.8	5.25 133	3.2 1.5
2½ 65	2.875 73.0	19.00 483	15.2 6.9	12.75 324	11.4 5.2	10.25 260	9.5 4.3	8.00 203	7.7 3.5	7.00 178	6.7 3.0	5.50 140	5.3 2.4
3 80	3.500 88.9	22.00 559	22.9 10.4	14.50 368	17.0 7.7	11.50 292	14 6.4	8.75 222	11.0 5.0	7.50 191	9.5 4.3	5.75 146	7.3 3.3
3½ 90	4.000 101.6	25.00 635	31.1 14.1	16.25 413	22.8 10.3	12.75 324	18.6 8.4	9.75 248	14.4 6.5	8.25 210	12.3 5.6	6.00 152	9.2 4.2
4 100	4.500 114.3	28.00 711	41.0 18.6	18.00 457	29.8 13.5	14.00 356	24.1 10.9	10.50 267	18.5 8.4	8.75 222	15.7 7.1	6.50 165	11.4 5.2
5 125	5.563 141.3	35.00 889	69.5 31.6	22.25 565	50.5 22.9	17.50 445	40.9 18.6	13.00 330	31.3 14.2	11.00 279	26.5 12.0	8.00 203	19.4 8.8
6 150	6.625 168.3	42.00 1067	108.2 49.2	26.75 679	78.6 35.7	21.00 533	63.7 28.9	15.75 400	48.8 22.1	13.25 337	41.3 18.7	9.50 241	30.1 13.7
8 200	8.625 219.1	56.00 1422	217.2 98.7	35.75 908	157.7 71.5	28.00 711	127.8 58.0	21.00 533	97.9 44.4	17.50 445	82.9 37.6	12.75 324	60.5 27.4
10 250	10.750 273.1	70.00 1778	384.9 174.9	44.75 1137	279.4 126.7	35.00 889	226.4 102.7	26.00 660	173.4 78.7	22.00 559	146.9 66.6	16.00 406	107.2 48.6

Models L90-6D / L60-6D / L45-6D / L30-6D / L22-6D / L11-6D Wrought Elbows													
Nominal Pipe Size	Pipe O.D.	L90-6D 90° Elbow		L60-6D 60° Elbow		L45-6D 45° Elbow		L30-6D 30° Elbow		L22-6D 22½° Elbow		L11-6D 11¼° Elbow	
		C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight	C-E	Weight
in mm	in mm	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs	in mm	Lbs Kgs
12 300	12.750 323.9	84.00 2134	565.8 257.2	53.50 1359	410.5 186.2	41.75 1060	332.7 150.9	31.25 794	254.8 115.6	26.25 667	215.9 97.9	19.00 483	157.5 71.4
14 350	14.000 355.6	96.00 2438	708.4 322.0	62.50 1588	527.3 239.2	48.75 1238	427.3 193.8	36.50 927	327.3 148.5	30.75 781	277.3 125.8	22.25 565	202.3 91.8
16 400	16.000 406.4	108.00 2743	910.6 413.9	71.50 1816	691.1 313.5	55.75 1416	560.1 254.1	41.75 1060	429.0 194.6	35.25 895	363.5 164.9	25.50 648	265.2 120.3
18 450	18.000 457.2	120.00 3048	1137.4 517.0	80.50 2045	877.1 397.8	62.75 1594	710.7 322.4	47.00 1194	544.4 246.9	39.50 1003	461.3 209.2	28.75 730	336.5 152.6
20 500	20.000 508.0	132.00 3353	1390.4 632.0	89.25 2267	1085.1 492.2	69.75 1772	879.3 398.8	52.25 1327	673.5 305.5	44.00 1118	570.7 258.9	31.75 806	416.3 188.8
24 600	24.000 609.6	156.00 3962	1972.1 896.4	107.25 2724	1567.5 711	83.75 2127	1270.3 576.2	62.50 1588	973.0 441.3	52.34 1329	824.4 373.9	38.25 972	601.4 272.8

MATERIAL SPECIFICATIONS

• Fitting body:

Carbon steel pipe, standard wall, to ASTM A53.

• Surface Finish:

Orange color painted or red RAL3000 color painted.

- ☐ Hotdipgalvanized (Option).
- ☐ Epoxy coated in red RAL3000 or other colors (Option).

General Notes:

- **Pressure Ratings** for fittings conform to the working pressure of the coupling used to join the system.
- **Field Joint Test:** For one time only the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and/or removal of any components.
- **The 10 Year Limited Warranty** applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- **Shurjoint** reserves the right to change specifications, designs and/or standard without notice and without incurring any obligations.

Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Shurjoint Technical Service. Shurjoint reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on Shurjoint products previously subsequently sold.