

Victaulic® Long Radius Steel Elbows 3D, 5D and 6D



Product Description

Victaulic® long radius elbows are formed from standard wall steel pipe to ASTM A-53 Grade B. Fittings are painted orange enamel with galvanized optionally available.

Elbows are supplied with standard cut grooves unless otherwise requested. They are also available with plain ends by request.

Job/Owner

System No.	
Location	

Contractor

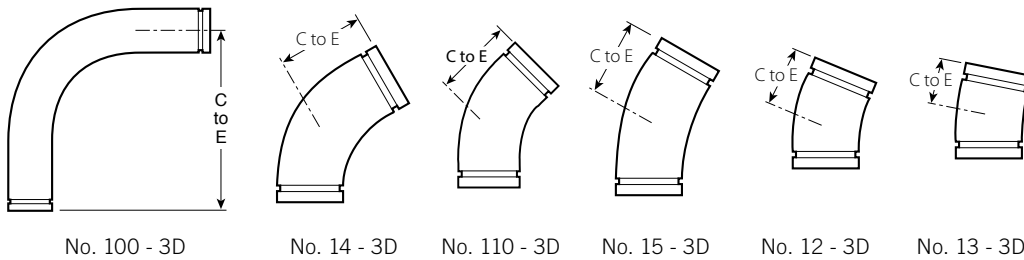
Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	

Dimensions

Long Radius Steel Elbows - 3D



Fitting Size		No. 100- 3D 90°		No. 14- 3D 60°		No. 110- 3D 45°		No. 15- 3D 30°		No. 12- 3D 22 1/2°		No. 13- 3D 11 1/4°	
Nominal Outside Diameter	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each
inches	mm	inches	lbs.	inches	lbs.	inches	lbs.	inches	lbs.	inches	lbs.	inches	lbs.
mm	mm	mm	kg	mm	kg	mm	kg	mm	kg	mm	kg	mm	kg
2	2.375	10.00	5.3	7.50	4.3	6.50	3.9	5.75	3.4	5.25	3.2	4.50	2.8
50	60.3	254	2.4	191	2.0	165	1.8	146	1.5	133	1.5	114	1.3
2½	2.875	11.50	9.5	8.25	7.7	7.25	6.7	6.00	5.8	5.50	5.3	4.75	4.6
65	73.0	292	4.3	210	3.5	184	3.0	152	2.6	140	2.4	121	2.1
3	3.500	13.00	14.0	9.25	11.0	7.75	9.5	6.50	8.0	5.75	7.3	5.00	6.2
80	88.9	330	6.4	235	5.0	197	4.3	165	3.6	146	3.3	127	2.8
3½	4.000	14.50	18.6	10.00	14.4	8.50	12.3	6.75	10.2	6.00	9.2	5.00	7.6
90	101.6	368	8.4	254	6.5	216	5.6	172	4.6	152	4.2	127	3.4
4	4.500	16.00	24.1	11.00	18.5	9.00	15.7	7.25	12.8	6.50	11.4	5.25	9.3
100	114.3	407	10.9	279	8.4	229	7.1	184	5.8	165	5.2	133	4.2
4½	5.000	18.00	31.6	12.25	24.2	10.00	20.5	8.25	16.8	7.25	14.9	5.75	12.2
120	127.0	457	14.3	311	11.0	254	9.3	210	7.6	184	6.8	146	5.5
5	5.563	20.00	40.9	13.75	31.3	11.25	26.5	9.00	21.8	8.00	19.4	6.50	15.8
125	141.3	508	18.6	349	14.2	286	12.0	229	9.9	203	8.8	165	7.2
6	6.625	24.00	63.7	16.50	48.8	13.50	41.3	10.75	33.9	9.50	30.1	7.75	24.6
150	168.3	610	28.9	419	22.1	343	18.7	273	15.4	241	13.7	197	11.2
8	8.625	32.00	127.8	22.00	97.9	18.00	82.9	14.50	68.0	12.75	60.5	10.50	49.3
200	219.1	813	58.0	559	44.4	457	37.6	368	30.8	324	27.4	267	22.4
10	10.750	40.00	226.4	27.25	173.4	22.50	146.9	18.00	120.5	16.00	107.2	13.00	87.3
250	273.0	1016	102.7	692	78.7	572	66.6	457	54.7	406	48.6	330	39.6
12	12.750	48.00	332.7	32.75	254.8	27.00	215.9	21.75	177.0	19.25	157.5	15.50	128.3
300	323.9	1219	150.9	832	115.6	686	97.9	553	80.3	489	71.4	394	58.2
14	14.000	56.00	427.3	38.25	327.3	31.50	277.3	25.25	227.3	22.50	202.3	18.25	164.8
350	355.6	1422	193.8	972	148.5	800	125.8	641	103.1	572	91.8	464	74.8
15	15.000	60.00	480.8	41.00	368.3	33.75	312.0	27.00	255.8	24.00	227.6	19.50	185.4
375	381.0	1524	218.1	1041	167.1	857	141.5	656	116.0	610	103.2	495	84.1
16	16.000	64.00	560.1	43.75	429.0	36.00	363.5	29.00	297.9	25.50	265.2	20.75	216.0
400	406.4	1626	254.1	1111	194.6	914	164.9	737	135.1	648	120.3	527	98.0
18	18.000	72.00	710.7	49.25	544.4	40.50	461.3	32.50	378.1	28.75	336.5	23.25	274.1
450	457.2	1829	322.4	1251	246.9	1029	209.2	826	171.5	730	152.6	591	124.3
20	20.000	80.00	879.3	54.75	673.5	45.00	540.7	36.00	467.8	32.00	416.3	26.00	339.2
500	508.0	2032	398.9	1391	305.5	1143	245.3	914	212.2	813	188.8	660	153.9
22	22.000	88.00	1067.7	60.25	817.9	49.25	692.9	39.75	568.0	35.25	505.2	28.50	411.8
550	559.0	2235	484.3	1530	371.0	1251	314.3	1010	257.6	895	229.2	724	186.8
24	24.000	96.00	1270.3	65.50	973.0	53.75	824.4	43.25	675.7	38.25	601.4	31.00	490.0
600	609.6	2438	576.2	1664	441.4	1365	373.9	1099	306.5	972	272.8	787	222.3

General Notes

Long radius elbows (3D, 5D and 6D) in sizes up to and including 4" are provided with 4" integral tangent; remaining sizes provided with integral tangents with lengths equal to nominal pipe size.

Grooved or plain end available. Specify choice on order.

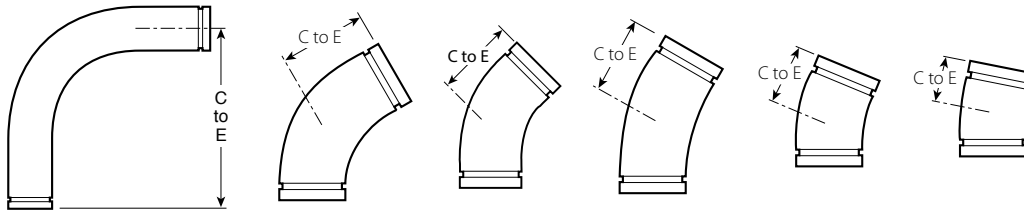
Bends to conform to above radii.

C to E tolerances: 2 - 6" $\pm 1/8$ "; 8 - 15" $\pm 1/4$ "; 16 - 24" $\pm 3/8$ "

All weights are approximate based on calculated weight of pipe.

Material: standard wall steel pipe to ASTM A-53 grade B (other materials available on request).

Long Radius Steel Elbows - 5D



No. 100 - 5D

No. 14 - 5D

No. 110 - 5D

No. 15 - 5D

No. 12 - 5D

No. 13 - 5D

Fitting Size		No. 100- 5D 90°		No. 14- 5D 60°		No. 110- 5D 45°		No. 15- 5D 30°		No. 12- 5D 22 1/2°		No. 13- 5D 11 1/4°	
Nominal Outside Diameter	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. 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	172	1.8	152	1.6	127	1.4
2½	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	6.0	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	488	9.0	324	6.8	260	5.7	203	4.5	178	4.0	140	3.1
3½	4.000	21.50	26.9	14.25	20.0	11.25	16.5	8.75	13.0	7.50	11.3	5.75	8.7
90	101.6	546	12.2	362	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
4½	5.000	27.00	46.3	17.50	34.0	13.75	27.9	10.50	21.7	9.00	18.6	6.75	14.0
120	127.0	686	21.0	445	15.4	349	12.7	267	9.8	229	8.4	172	6.4
5	5.563	30.00	60.0	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	299	12.7	254	10.9	191	8.3
6	6.625	36.00	93.5	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	187.6	31.00	137.7	24.50	112.8	18.75	87.9	16.00	75.4	12.00	56.8
200	219.1	1219	85.1	787	62.5	622	51.2	476	39.9	406	34.2	305	25.8
10	10.750	60.00	332.4	39.00	244.1	30.75	199.9	23.50	155.8	20.00	133.7	15.00	100.6
250	273.0	1524	150.8	991	110.7	781	90.7	597	70.7	5008	60.6	381	45.6
12	12.750	72.00	488.4	46.75	358.6	37.00	293.7	28.00	228.9	24.00	196.4	18.00	147.8
300	323.9	1829	221.5	1188	162.7	940	133.2	711	103.8	610	89.1	457	67.0
14	14.000	84.00	627.4	54.50	460.7	43.00	377.3	32.75	294.0	28.00	252.3	21.00	189.8
350	355.6	2134	284.6	1384	209.0	1092	171.1	832	133.4	711	114.4	533	86.1
15	15.000	90.00	705.8	58.25	518.3	46.00	424.6	35.25	330.8	30.00	283.9	22.50	213.6
375	381.0	2286	320.2	1498	235.1	1168	192.6	895	150.1	762	128.8	572	96.6
16	16.000	96.00	822.2	62.25	603.8	49.25	494.5	37.50	385.3	32.00	330.7	24.00	248.8
400	406.4	2438	372.9	1581	273.9	1251	224.3	953	174.8	813	150.0	610	112.9
18	18.000	108.00	1043.4	70.00	766.2	55.25	627.6	42.25	489.0	36.00	419.7	27.00	315.7
450	457.2	2743	473.3	1778	347.5	1403	284.7	1073	221.8	914	190.4	686	143.2
20	20.000	120.00	1290.9	77.75	947.9	61.50	776.4	46.75	605.0	40.00	519.2	30.00	390.6
500	508.0	3048	585.6	1975	430.0	1562	352.2	1188	274.4	1016	235.5	762	177.2
22	22.000	132.0	1567.4	85.50	1150.9	67.50	942.7	51.50	734.6	44.00	630.5	32.75	474.3
550	559.0	3353	711.0	2172	522.0	1715	427.6	1308	333.2	1118	286.0	832	215.1
24	24.000	144.00	1864.8	93.25	1369.3	73.75	1121.6	56.25	873.9	48.00	750.1	35.75	564.3
600	609.6	3658	845.9	2369	621.1	1873	508.8	1429	396.4	1219	340.2	908	256.0

General Notes

Long radius elbows (3D, 5D and 6D) in sizes up to and including 4" are provided with 4" integral tangent; remaining sizes provided with integral tangents with lengths equal to nominal pipe size.

Grooved or plain end available. Specify choice on order.

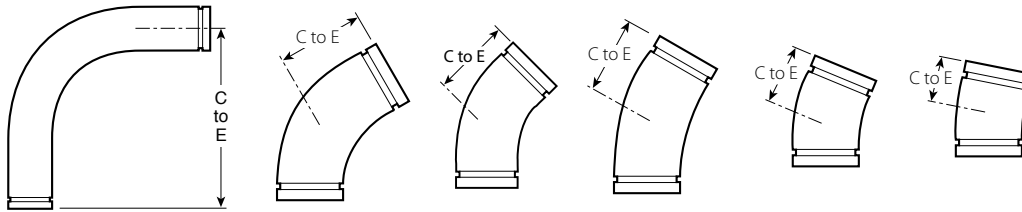
Bends to conform to above radii.

C to E tolerances: 2 - 6" $\pm 1/8$ "; 8 - 15" $\pm 1/4$ "; 16 - 24" $\pm 3/8$ "

All weights are approximate based on calculated weight of pipe.

Material: standard wall steel pipe to ASTM A-53 grade B (other materials available on request).

Long Radius Steel Elbows - 6D



No. 100 - 6D

No. 14 - 6D

No. 110 - 6D

No. 15 - 6D

No. 12 - 6D

No. 13 - 6D

Fitting Size		No. 100- 6D 90°		No. 14- 6D 60°		No. 110- 6D 45°		No. 15- 6D 30°		No. 12- 6D 22 1/2°		No. 13- 6D 11 1/4°	
Nominal Outside Diameter	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg
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	14.0 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	41.1 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
4½ 120	5.000 127.0	31.50 800	53.7 24.4	20.00 508	39.0 17.7	15.75 400	31.6 14.3	11.75 299	24.2 11.0	10.00 254	20.5 9.3	7.25 184	14.9 6.8
5 125	5.563 141.3	35.00 889	69.6 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	108.4 49.2	26.75 680	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	217.5 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	10.750 273.0	70.00 1778	385.4 174.8	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
12 300	12.750 323.9	84.00 2134	566.2 256.8	53.50 1359	410.5 186.2	41.75 1061	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	98.00 2489	727.4 329.9	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
15 375	15.000 381.0	105.00 2667	818.4 371.2	67.00 1702	593.3 269.1	52.25 1327	480.2 217.8	39.25 997	386.3 167.1	33.00 838	312.0 141.5	24.00 609	227.6 103.2
16 400	16.000 406.4	112.00 2845	953.3 432.4	71.50 1816	691.1 313.5	55.75 1416	560.1 254.1	41.75 1061	429.0 194.6	35.25 895	363.5 164.9	25.50 648	265.2 120.3
18 450	18.000 457.2	126.00 3200	1209.7 548.7	80.50 2045	877.1 397.9	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	140.00 3556	1496.6 678.9	89.25 2267	1085.1 492.2	69.75 1772	879.3 398.9	52.25 1327	673.5 305.5	44.00 1118	570.7 258.9	31.75 807	416.3 188.8
22 550	22.000 559.0	154.00 3912	1817.3 824.3	98.25 2496	1317.5 597.6	76.75 1950	1067.7 484.3	57.50 1461	817.9 371.0	48.25 1256	693.0 314.3	35.00 889	505.5 229.3
24 600	24.000 609.6	168.00 4267	2162.8 980.7	107.25 2724	1567.5 711.0	83.75 2127	1270.3 576.2	62.50 1588	973.0 441.4	52.75 1340	824.4 373.9	38.25 972	601.4 272.8

General Notes

Long radius elbows (3D, 5D and 6D) in sizes up to and including 4" are provided with 4" integral tangent; remaining sizes provided with integral tangents with lengths equal to nominal pipe size.

Grooved or plain end available. Specify choice on order.

Bends to conform to above radii.

C to E tolerances: 2 - 6" ± 1/8"; 8 - 15" ± 1/4"; 16 - 24" ± 3/8"

All weights are approximate based on calculated weight of pipe.

Material: standard wall steel pipe to ASTM A-53 grade B (other materials available on request).

Installation

Reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Trademarks

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