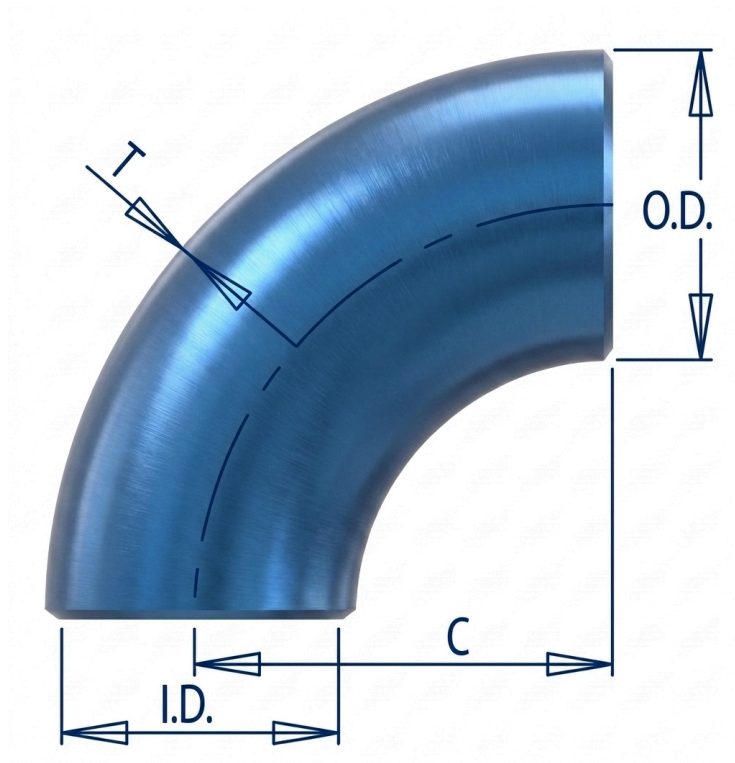


90° Long Radius Elbows

Butt-Weld Fittings · ASME B16.9 · All Material Grades



AVAILABLE SCHEDULES

STD

XS

40

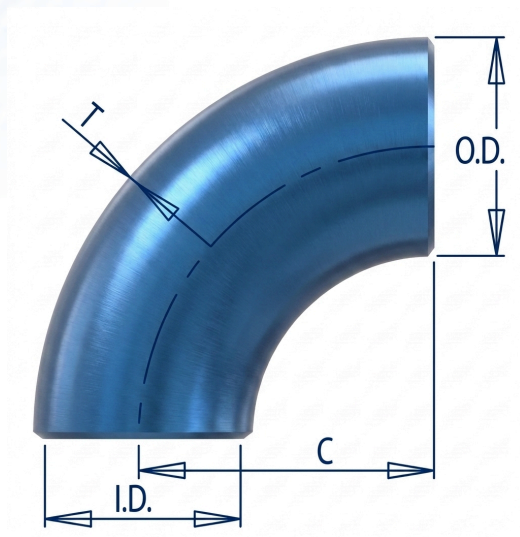
80

160

XXS



90° Long Radius Elbow — Schedule STD



LONG RADIUS — SCHEDULE STD

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to End	Pipe Schedule Number	Approx. Weight in Pounds
	<i>O.D.</i>	<i>I.D.</i>	<i>T</i>	<i>C</i>		<i>Lbs.</i>
1/2	0.84	0.622	0.109	1.50	40	0.16
3/4	1.05	0.824	0.113	1.50	40	0.17
1	1.32	1.049	0.133	1.50	40	0.40
1 1/4	1.66	1.380	0.140	1.88	40	0.55
1 1/2	1.90	1.610	0.145	2.25	40	0.80
2	2.38	2.067	0.154	3.00	40	1.60
2 1/2	2.88	2.469	0.203	3.75	40	3.20
3	3.50	3.068	0.216	4.50	40	4.80
3 1/2	4.00	3.548	0.226	5.25	40	6.60
4	4.50	4.026	0.237	6.00	40	8.90
5	5.56	5.047	0.258	7.50	40	15.10
6	6.62	6.065	0.280	9.00	40	24.00
8	8.62	7.981	0.322	12.00	40	47.80
10	10.75	10.020	0.365	15.00	40	83.40
12	12.75	12.000	0.375	18.00	*	123.00
14	14.00	13.250	0.375	21.00	30	155.00
16	16.00	15.250	0.375	24.00	30	206.00
18	18.00	17.250	0.375	27.00	*	262.00
20	20.00	19.250	0.375	30.00	20	324.00
24	24.00	23.250	0.375	36.00	20	466.00
30	30.00	29.250	0.375	45.00	*	720.00
36	36.00	35.250	0.375	54.00	*	1039.00
42	42.00	41.250	0.375	63.00	*	1420.00
48	48.00	47.250	0.375	72.00	*	2000.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

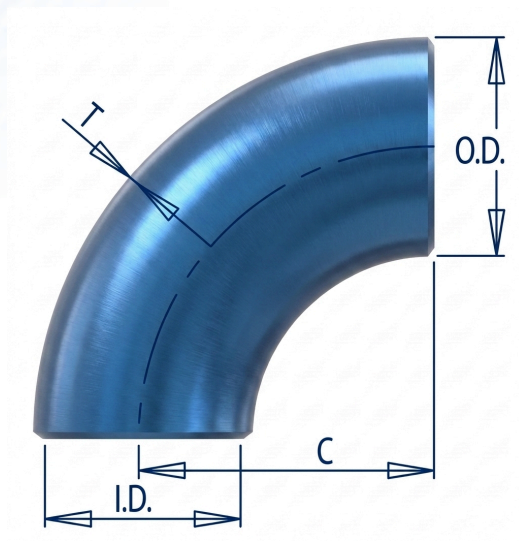
(B) Available in all material grades.

(C) All weights are estimates.

(D) For sizes larger than 48" please call.

* This size and wall thickness are not associated with a standard pipe schedule.

90° Long Radius Elbow — Schedule XS



LONG RADIUS — SCHEDULE XS

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to End	Pipe Schedule Number	Approx. Weight in Pounds
	<i>O.D.</i>	<i>I.D.</i>	<i>T</i>	<i>C</i>		<i>Lbs.</i>
1/2	0.84	0.546	0.147	1.50	80	0.26
3/4	1.05	0.742	0.154	1.50	80	0.29
1	1.32	0.957	0.179	1.50	80	0.48
1 1/4	1.66	1.278	0.191	1.88	80	0.79
1 1/2	1.90	1.500	0.200	2.25	80	1.20
2	2.38	1.939	0.218	3.00	80	2.10
2 1/2	2.88	2.323	0.276	3.75	80	3.80
3	3.50	2.900	0.300	4.50	80	6.30
3 1/2	4.00	3.364	0.318	5.25	80	8.60
4	4.50	3.826	0.337	6.00	80	12.50
5	5.56	4.813	0.375	7.50	80	21.20
6	6.62	5.761	0.432	9.00	80	34.40
8	8.62	7.625	0.500	12.00	80	71.30
10	10.75	9.750	0.500	15.00	60	111.00
12	12.75	11.750	0.500	18.00	*	158.00
14	14.00	13.000	0.500	21.00	*	201.00
16	16.00	15.000	0.500	24.00	40	270.00
18	18.00	17.000	0.500	27.00	*	348.00
20	20.00	19.000	0.500	30.00	30	422.00
24	24.00	23.000	0.500	36.00	*	604.00
30	30.00	29.000	0.500	45.00	20	997.00
36	36.00	35.000	0.500	54.00	20	1380.00
42	42.00	41.000	0.500	63.00	*	1880.00
48	48.00	47.000	0.500	72.00	*	2502.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

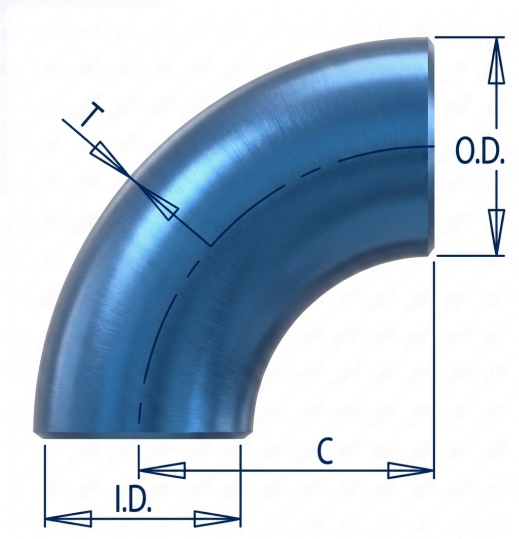
(B) Available in all material grades.

(C) All weights are estimates.

(D) For sizes larger than 48" please call.

* This size and wall thickness are not associated with a standard pipe schedule.

90° Long Radius Elbow — Schedule 40



LONG RADIUS — SCHEDULE 40

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to End	Pipe Schedule Number	Approx. Weight in Pounds
	<i>O.D.</i>	<i>I.D.</i>	<i>T</i>	<i>C</i>		<i>Lbs.</i>
1/2	0.84	0.622	0.109	1.50	40	0.16
3/4	1.05	0.824	0.113	1.50	40	0.17
1	1.32	1.054	0.133	1.50	40	0.40
1 1/4	1.66	1.380	0.140	1.88	40	0.55
1 1/2	1.90	1.610	0.145	2.25	40	0.80
2	2.38	2.072	0.154	3.00	40	1.60
2 1/2	2.88	2.474	0.203	3.75	40	3.20
3	3.50	3.068	0.216	4.50	40	4.80
3 1/2	4.00	3.548	0.226	5.25	40	6.60
4	4.50	4.026	0.237	6.00	40	8.90
5	5.56	5.044	0.258	7.50	40	15.10
6	6.62	6.060	0.280	9.00	40	24.00
8	8.62	7.976	0.322	12.00	40	47.80
10	10.75	10.020	0.365	15.00	40	83.40
12	12.75	11.938	0.406	18.00	40	123.00
14	14.00	13.124	0.438	21.00	40	155.00
16	16.00	15.000	0.500	24.00	40	206.00
18	18.00	16.876	0.562	27.00	40	262.00
20	20.00	18.812	0.594	30.00	40	324.00
24	24.00	22.624	0.688	36.00	40	466.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

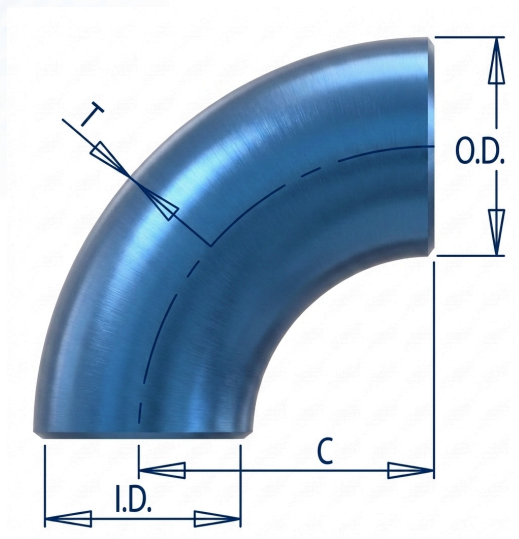
(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

(D) For sizes larger than 24" please call.

90° Long Radius Elbow — Schedule 80



LONG RADIUS — SCHEDULE 80

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to End	Pipe Schedule Number	Approx. Weight in Pounds
	<i>O.D.</i>	<i>I.D.</i>	<i>T</i>	<i>C</i>		<i>Lbs.</i>
1/2	0.84	0.546	0.147	1.50	80	0.26
3/4	1.05	0.742	0.154	1.50	80	0.29
1	1.32	0.962	0.179	1.50	80	0.48
1 1/4	1.66	1.278	0.191	1.88	80	0.79
1 1/2	1.90	1.500	0.200	2.25	80	1.20
2	2.38	1.944	0.218	3.00	80	2.10
2 1/2	2.88	2.328	0.276	3.75	80	3.80
3	3.50	2.900	0.300	4.50	80	6.30
3 1/2	4.00	3.364	0.318	5.25	80	8.60
4	4.50	3.826	0.337	6.00	80	12.50
5	5.56	4.810	0.375	7.50	80	21.20
6	6.62	5.756	0.432	9.00	80	34.40
8	8.62	7.620	0.500	12.00	80	71.30
10	10.75	9.562	0.594	15.00	80	111.00
12	12.75	11.374	0.688	18.00	80	158.00
14	14.00	12.500	0.750	21.00	80	201.00
16	16.00	14.312	0.844	24.00	80	270.00
18	18.00	16.124	0.938	27.00	80	348.00
20	20.00	17.938	1.031	30.00	80	422.00
24	24.00	21.562	1.219	36.00	80	604.00

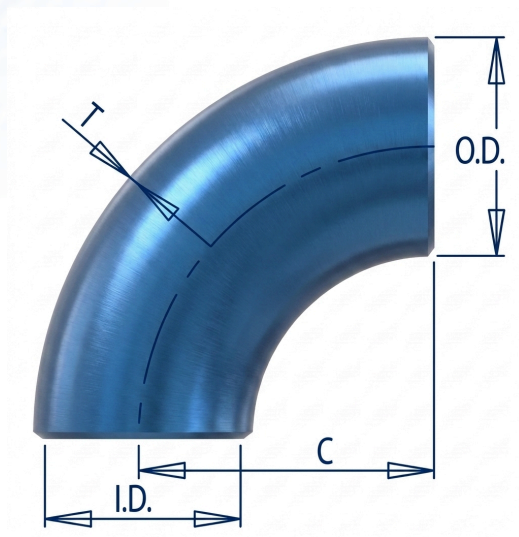
DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

90° Long Radius Elbow — Schedule 160



LONG RADIUS — SCHEDULE 160

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to End	Pipe Schedule Number	Approx. Weight in Pounds
	<i>O.D.</i>	<i>I.D.</i>	<i>T</i>	<i>C</i>		<i>Lbs.</i>
1/2	0.84	0.464	0.188	1.50	160	0.60
3/4	1.05	0.612	0.219	1.50	160	0.60
1	1.32	0.820	0.250	1.50	160	0.60
1 1/4	1.66	1.160	0.250	1.88	160	1.00
1 1/2	1.90	1.338	0.281	2.25	160	1.80
2	2.38	1.692	0.344	3.00	160	3.20
2 1/2	2.88	2.130	0.375	3.75	160	6.00
3	3.50	2.624	0.438	4.50	160	10.00
4	4.50	3.438	0.531	6.00	160	22.00
5	5.56	4.310	0.625	7.50	160	33.00
6	6.62	5.182	0.719	9.00	160	62.00
8	8.62	6.808	0.906	12.00	160	122.00
10	10.75	8.500	1.125	15.00	160	270.00
12	12.75	10.126	1.312	18.00	160	460.00
14	14.00	11.188	1.406	21.00	160	563.00
16	16.00	12.812	1.594	24.00	160	825.00
18	18.00	14.438	1.781	27.00	160	1240.00
20	20.00	16.062	1.969	30.00	160	1510.00
24	24.00	19.312	2.344	36.00	160	1760.00

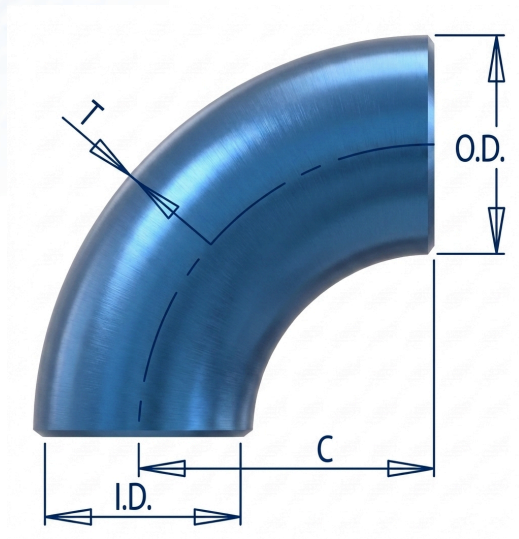
DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

90° Long Radius Elbow — Schedule XXS



LONG RADIUS — SCHEDULE XXS

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to End	Pipe Schedule Number	Approx. Weight in Pounds
	<i>O.D.</i>	<i>I.D.</i>	<i>T</i>	<i>C</i>		<i>Lbs.</i>
1/2	0.84	0.252	0.294	1.50	*	0.30
3/4	1.05	0.434	0.308	1.50	*	0.30
1	1.32	0.604	0.358	1.50	*	0.80
1 1/4	1.66	0.896	0.382	1.88	*	1.40
1 1/2	1.90	1.100	0.400	2.25	*	2.00
2	2.38	1.508	0.436	3.00	*	3.90
2 1/2	2.88	1.776	0.552	3.75	*	6.80
3	3.50	2.300	0.600	4.50	*	11.30
4	4.50	3.152	0.674	6.00	*	23.00
5	5.56	4.060	0.750	7.50	*	38.00
6	6.62	4.892	0.864	9.00	*	69.00
8	8.62	6.870	0.875	12.00	*	120.00
10	10.75	8.750	1.000	15.00	140	232.00
12	12.75	10.750	1.000	18.00	120	315.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

* This size and wall thickness are not associated with a standard pipe schedule.