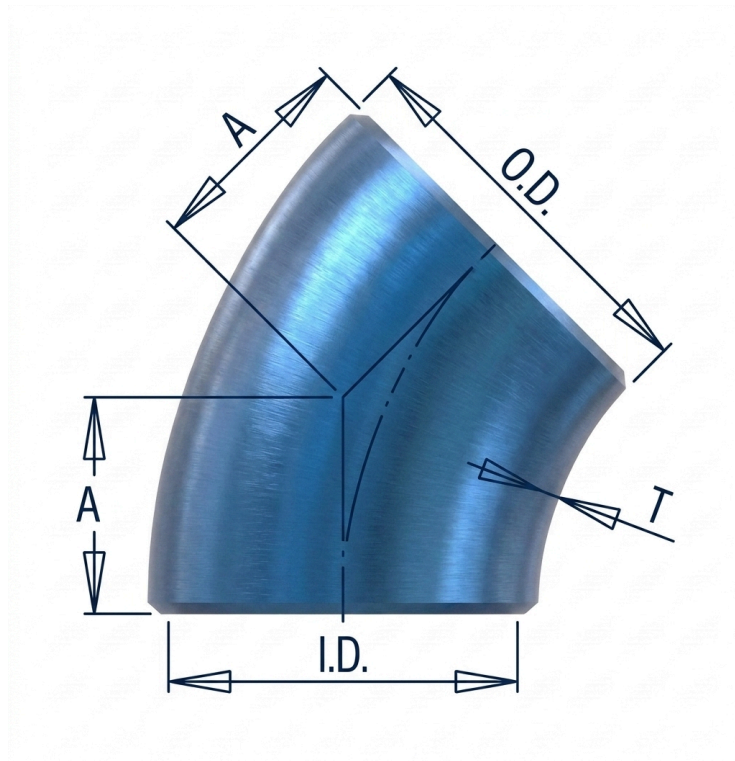


45° Long Radius Elbows

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



AVAILABLE SCHEDULES

STD

XS

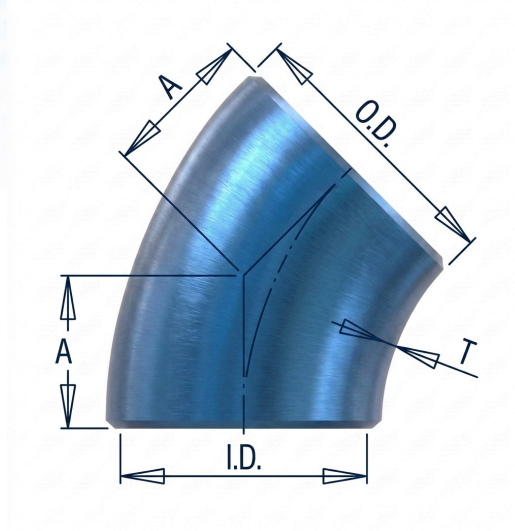
40

80

160

XXS

45° 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>A</i>		<i>Lbs.</i>
1/2	0.84	0.622	0.109	0.62	40	0.09
3/4	1.05	0.824	0.113	0.75	40	0.10
1	1.32	1.049	0.133	0.88	40	0.22
1 1/4	1.66	1.380	0.140	1.00	40	0.33
1 1/2	1.90	1.610	0.145	1.12	40	0.43
2	2.38	2.067	0.154	1.38	40	0.85
2 1/2	2.88	2.469	0.203	1.75	40	1.70
3	3.50	3.068	0.216	2.00	40	2.50
3 1/2	4.00	3.548	0.226	2.25	40	3.40
4	4.50	4.026	0.237	2.50	40	4.50
5	5.56	5.047	0.258	3.12	40	7.50
6	6.62	6.065	0.280	3.75	40	11.70
8	8.62	7.981	0.322	5.00	40	23.30
10	10.75	10.020	0.365	6.25	40	40.90
12	12.75	12.000	0.375	7.50	*	61.40
14	14.00	13.250	0.375	8.75	30	78.10
16	16.00	15.250	0.375	10.00	30	101.00
18	18.00	17.250	0.375	11.25	*	128.00
20	20.00	19.250	0.375	12.50	20	159.00
24	24.00	23.250	0.375	15.00	20	231.00
30	30.00	29.250	0.375	18.50	*	358.00
36	36.00	35.250	0.375	22.25	*	518.00
42	42.00	41.250	0.375	26.00	*	707.00
48	48.00	47.250	0.375	29.88	*	1000.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

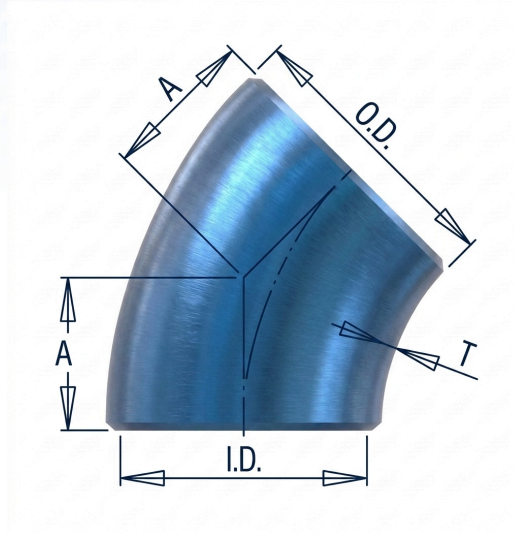
(B) Available in all material grades.

(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.

45° 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>A</i>		<i>Lbs.</i>
1/2	0.84	0.546	0.147	0.62	80	0.15
3/4	1.05	0.742	0.154	0.75	80	0.16
1	1.32	0.957	0.179	0.88	80	0.28
1 1/4	1.66	1.278	0.191	1.00	80	0.45
1 1/2	1.90	1.500	0.200	1.12	80	0.61
2	2.38	1.939	0.218	1.38	80	1.20
2 1/2	2.88	2.323	0.276	1.75	80	2.00
3	3.50	2.900	0.300	2.00	80	3.30
3 1/2	4.00	3.364	0.318	2.25	80	4.50
4	4.50	3.826	0.337	2.50	80	6.20
5	5.56	4.813	0.375	3.12	80	10.50
6	6.62	5.761	0.432	3.75	80	17.00
8	8.62	7.625	0.500	5.00	80	34.30
10	10.75	9.750	0.500	6.25	60	53.50
12	12.75	11.750	0.500	7.50	*	77.60
14	14.00	13.000	0.500	8.75	*	100.00
16	16.00	15.000	0.500	10.00	40	134.00
18	18.00	17.000	0.500	11.25	*	170.00
20	20.00	19.000	0.500	12.50	30	209.00
24	24.00	23.000	0.500	15.00	*	302.00
30	30.00	29.000	0.500	18.50	20	475.10
36	36.00	35.000	0.500	22.25	20	686.10
42	42.00	41.000	0.500	26.00	*	936.10
48	48.00	47.000	0.500	29.88	*	1250.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

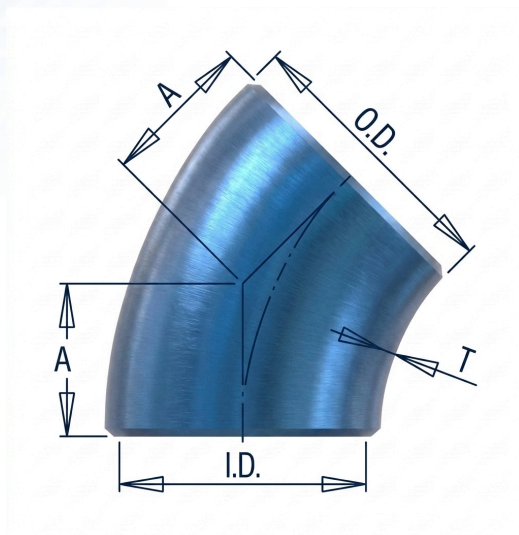
(B) Available in all material grades.

(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.

45° 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>A</i>		<i>Lbs.</i>
1/2	0.84	0.622	0.109	0.62	40	0.09
3/4	1.05	0.824	0.113	0.75	40	0.10
1	1.32	1.054	0.133	0.88	40	0.22
1 1/4	1.66	1.380	0.140	1.00	40	0.33
1 1/2	1.90	1.610	0.145	1.12	40	0.43
2	2.38	2.072	0.154	1.38	40	0.85
2 1/2	2.88	2.474	0.203	1.75	40	1.70
3	3.50	3.068	0.216	2.00	40	2.50
3 1/2	4.00	3.548	0.226	2.25	40	3.40
4	4.50	4.026	0.237	2.50	40	4.50
5	5.56	5.044	0.258	3.12	40	7.50
6	6.62	6.060	0.280	3.75	40	11.70
8	8.62	7.976	0.322	5.00	40	23.30
10	10.75	10.020	0.365	6.25	40	40.90
12	12.75	11.938	0.406	7.50	40	65.00
14	14.00	13.124	0.438	8.75	40	80.00
16	16.00	15.000	0.500	10.00	40	105.00
18	18.00	16.876	0.562	11.25	40	130.00
20	20.00	18.812	0.594	12.50	40	165.00
24	24.00	22.624	0.688	15.00	40	235.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

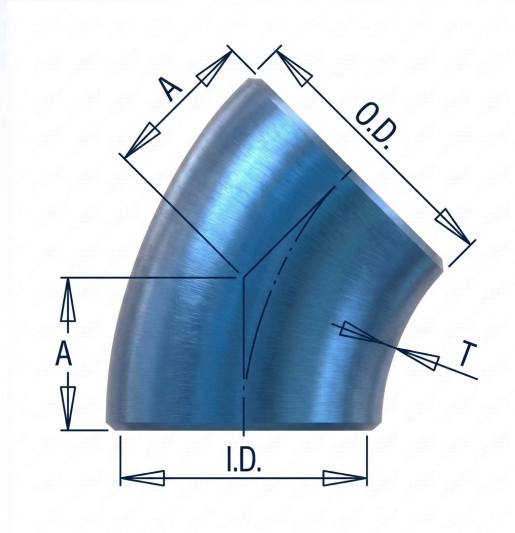
(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

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

45° 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>A</i>		<i>Lbs.</i>
1/2	0.84	0.546	0.147	0.62	80	0.15
3/4	1.05	0.742	0.154	0.75	80	0.16
1	1.32	0.962	0.179	0.88	80	0.28
1 1/4	1.66	1.278	0.191	1.00	80	0.45
1 1/2	1.90	1.500	0.200	1.12	80	0.61
2	2.38	1.944	0.218	1.38	80	1.20
2 1/2	2.88	2.328	0.276	1.75	80	2.00
3	3.50	2.900	0.300	2.00	80	3.30
3 1/2	4.00	3.364	0.318	2.25	80	4.50
4	4.50	3.826	0.337	2.50	80	6.20
5	5.56	4.810	0.375	3.12	80	10.50
6	6.62	5.756	0.432	3.75	80	17.00
8	8.62	7.620	0.500	5.00	80	34.30
10	10.75	9.562	0.594	6.25	80	55.00
12	12.75	11.374	0.688	7.50	80	80.00
14	14.00	12.500	0.750	8.75	80	100.00
16	16.00	14.312	0.844	10.00	80	135.00
18	18.00	16.124	0.938	11.25	80	175.00
20	20.00	17.938	1.031	12.50	80	210.00
24	24.00	21.562	1.219	15.00	80	305.00

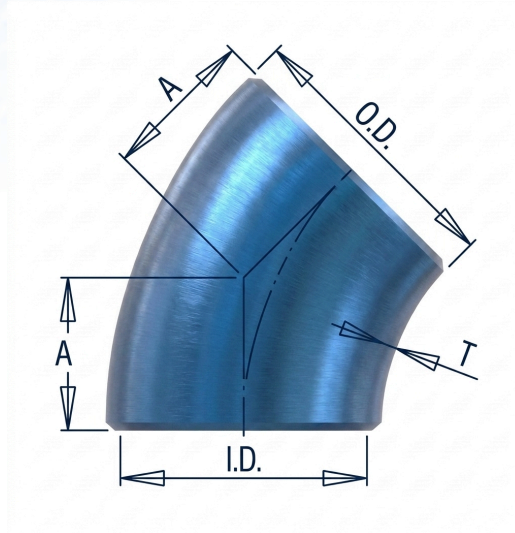
DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

45° 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>A</i>		<i>Lbs.</i>
1/2	0.84	0.464	0.188	0.62	160	1.80
3/4	1.05	0.612	0.219	0.75	160	2.00
1	1.32	0.820	0.250	0.88	160	3.00
1 1/4	1.66	1.160	0.250	1.00	160	3.50
1 1/2	1.90	1.338	0.281	1.12	160	3.70
2	2.38	1.692	0.344	1.38	160	5.00
2 1/2	2.88	2.130	0.375	1.75	160	3.70
3	3.50	2.624	0.438	2.00	160	5.60
4	4.50	3.438	0.531	2.50	160	5.60
5	5.56	4.310	0.625	3.12	160	15.00
6	6.62	5.182	0.719	3.75	160	28.00
8	8.62	6.808	0.906	5.00	160	48.00
10	10.75	8.500	1.125	6.25	160	72.00
12	12.75	10.126	1.312	7.50	160	98.00
14	14.00	11.188	1.406	8.75	160	130.00
16	16.00	12.812	1.594	10.00	160	180.00
18	18.00	14.438	1.781	11.25	160	260.00
20	20.00	16.062	1.969	12.50	160	390.00
24	24.00	19.312	2.344	15.00	160	560.00

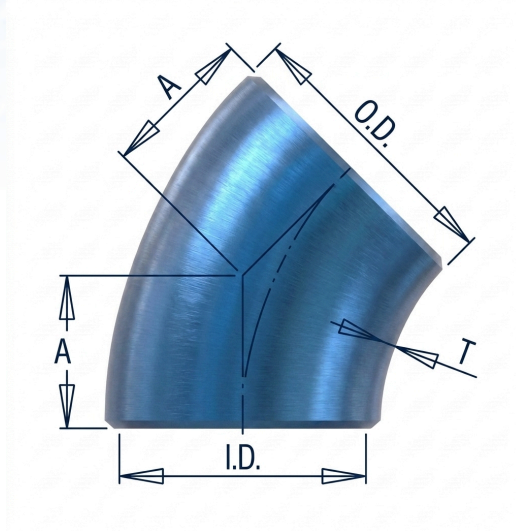
DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

45° 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>A</i>		<i>Lbs.</i>
1/2	0.84	0.252	0.294	0.62	*	1.80
3/4	1.05	0.434	0.308	0.75	*	2.00
1	1.32	0.604	0.358	0.88	*	3.00
1 1/4	1.66	0.896	0.382	1.00	*	3.50
1 1/2	1.90	1.100	0.400	1.12	*	3.70
2	2.38	1.508	0.436	1.38	*	5.00
2 1/2	2.88	1.776	0.552	1.75	*	3.70
3	3.50	2.300	0.600	2.00	*	6.00
4	4.50	3.152	0.674	2.50	*	10.40
5	5.56	4.060	0.750	3.12	*	19.20
6	6.62	4.892	0.864	3.75	*	30.00
8	8.62	6.870	0.875	5.00	*	50.00
10	10.75	8.750	1.000	6.25	140	75.00
12	12.75	10.750	1.000	7.50	120	95.00

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.

