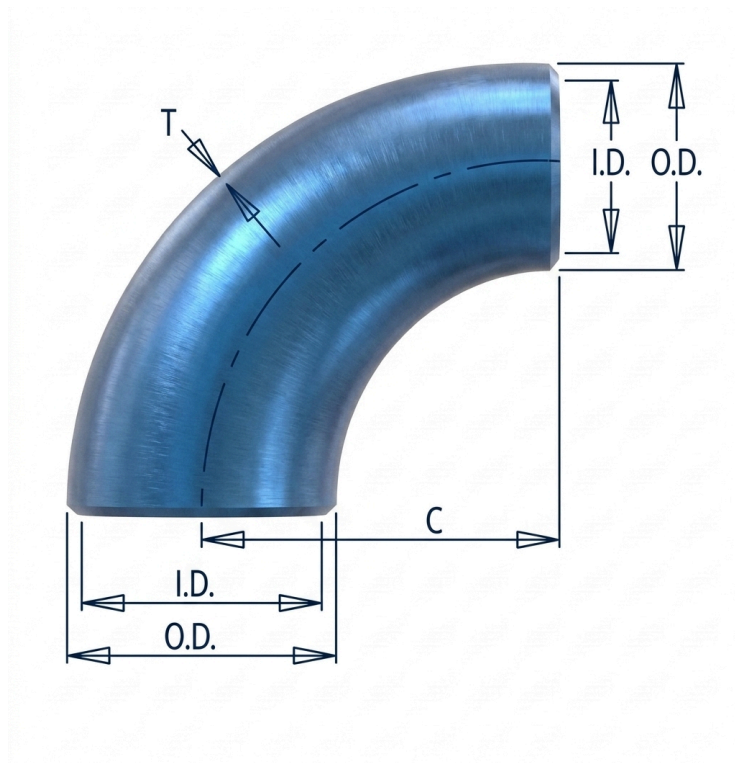


90° Reducing Elbows

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



AVAILABLE SCHEDULES

STD

XS

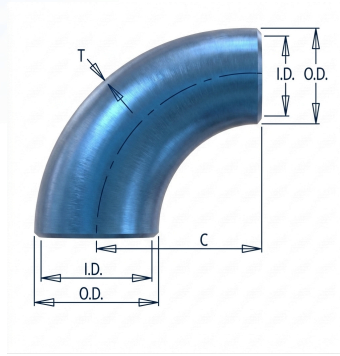
40

80



90° Reducing Elbow — Schedule STD

For Reference Only



	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
Nom. Large × Small	O.D.	I.D.	T	O.D.	I.D.	T	C		
2 × 1½	2.38	2.072	0.154	1.90	1.610	0.145	3.00	40	1.40
2 × 1¼	2.38	2.072	0.154	1.66	1.380	0.140	3.00	40	1.30
2 × 1	2.38	2.072	0.154	1.32	1.054	0.133	3.00	40	1.20
2½ × 2	2.88	2.474	0.203	2.38	2.072	0.154	3.75	40	2.80
2½ × 1½	2.88	2.474	0.203	1.90	1.610	0.145	3.75	40	2.60
2½ × 1¼	2.88	2.474	0.203	1.66	1.380	0.140	3.75	40	2.50
3 × 2½	3.50	3.068	0.216	2.88	2.474	0.203	4.50	40	4.20
3 × 2	3.50	3.068	0.216	2.38	2.072	0.154	4.50	40	3.60
3 × 1½	3.50	3.068	0.216	1.90	1.610	0.145	4.50	40	3.30
3½ × 3	4.00	3.548	0.226	3.50	3.068	0.216	5.25	40	6.00
3½ × 2½	4.00	3.548	0.226	2.88	2.474	0.203	5.25	40	5.50
3½ × 2	4.00	3.548	0.226	2.38	2.072	0.154	5.25	40	4.50
4 × 3½	4.50	4.026	0.237	4.00	3.548	0.226	6.00	40	8.40
4 × 3	4.50	4.026	0.237	3.50	3.068	0.216	6.00	40	7.70
4 × 2½	4.50	4.026	0.237	2.88	2.474	0.203	6.00	40	6.80
4 × 2	4.50	4.026	0.237	2.38	2.072	0.154	6.00	40	6.00
5 × 4	5.56	5.044	0.258	4.50	4.026	0.237	7.50	40	13.40

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

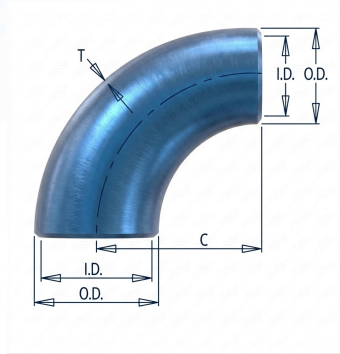
(B) Available in all material grades.

(C) All weights are estimates.

(D) For sizes larger than 12" please call.

90° Reducing Elbow — Schedule STD (cont.)

For Reference Only



Nom. Large × Small	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
	O.D.	I.D.	T	O.D.	I.D.	T			
5 × 3½	5.56	5.044	0.258	4.00	3.548	0.226	7.50	40	12.60
5 × 3	5.56	5.044	0.258	3.50	3.068	0.216	7.50	40	11.80
5 × 2½	5.56	5.044	0.258	2.88	2.474	0.203	7.50	40	10.70
6 × 5	6.62	6.060	0.280	5.56	5.044	0.258	9.00	40	21.00
6 × 4	6.62	6.060	0.280	4.50	4.026	0.237	9.00	40	18.90
6 × 3½	6.62	6.060	0.280	4.00	3.548	0.226	9.00	40	17.80
6 × 3	6.62	6.060	0.280	3.50	3.068	0.216	9.00	40	16.80
8 × 6	8.62	7.976	0.322	6.62	6.060	0.280	12.00	40	39.70
8 × 5	8.62	7.976	0.322	5.56	5.044	0.258	12.00	40	36.20
8 × 4	8.62	7.976	0.322	4.50	4.026	0.237	12.00	40	33.10
10 × 8	10.75	10.020	0.365	8.62	7.976	0.322	15.00	40	73.00
10 × 6	10.75	10.020	0.365	6.62	6.060	0.280	15.00	40	63.20
10 × 5	10.75	10.020	0.365	5.56	5.044	0.258	15.00	40	58.50
12 × 10	12.75	12.000	0.375	10.75	10.020	0.365	18.00	*	113.00
12 × 8	12.75	12.000	0.375	8.62	7.976	0.322	18.00	*	98.40
12 × 6	12.75	12.000	0.375	6.62	6.060	0.280	18.00	*	86.50

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.

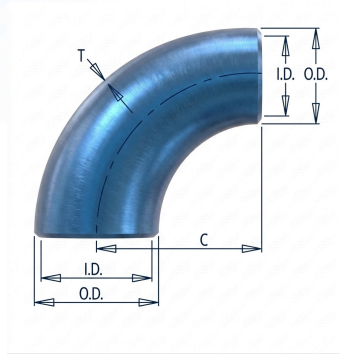
(D) For sizes larger than 12" please call.

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



90° Reducing Elbow — Schedule XS

For Reference Only



	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
Nom. Large × Small	O.D.	I.D.	T	O.D.	I.D.	T	C		
2 × 1½	2.38	1.944	0.218	1.90	1.500	0.200	3.00	80	1.90
2 × 1¼	2.38	1.944	0.218	1.66	1.278	0.191	3.00	80	1.80
2 × 1	2.38	1.944	0.218	1.32	0.962	0.179	3.00	80	1.70
2½ × 2	2.88	2.328	0.276	2.38	1.944	0.218	3.75	80	3.40
2½ × 1½	2.88	2.328	0.276	1.90	1.500	0.200	3.75	80	3.00
2½ × 1¼	2.88	2.328	0.276	1.66	1.278	0.191	3.75	80	2.90
3 × 2½	3.50	2.900	0.300	2.88	2.328	0.276	4.50	80	5.70
3 × 2	3.50	2.900	0.300	2.38	1.944	0.218	4.50	80	4.90
3 × 1½	3.50	2.900	0.300	1.90	1.500	0.200	4.50	80	4.50
3½ × 3	4.00	3.364	0.318	3.50	2.900	0.300	5.25	80	8.20
3½ × 2½	4.00	3.364	0.318	2.88	2.328	0.276	5.25	80	7.30
3½ × 2	4.00	3.364	0.318	2.38	1.944	0.218	5.25	80	6.40
4 × 3½	4.50	3.826	0.337	4.00	3.364	0.318	6.00	80	11.40
4 × 3	4.50	3.826	0.337	3.50	2.900	0.300	6.00	80	10.50
4 × 2½	4.50	3.826	0.337	2.88	2.328	0.276	6.00	80	9.40
4 × 2	4.50	3.826	0.337	2.38	1.944	0.218	6.00	80	8.40
5 × 4	5.56	4.810	0.375	4.50	3.826	0.337	7.50	80	18.80

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

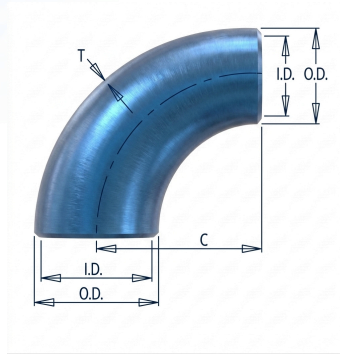
(B) Available in all material grades.

(C) All weights are estimates.

(D) For sizes larger than 12" please call.

90° Reducing Elbow — Schedule XS (cont.)

For Reference Only



	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
Nom. Large × Small	O.D.	I.D.	T	O.D.	I.D.	T	C		
5 × 3½	5.56	4.810	0.375	4.00	3.364	0.318	7.50	80	17.40
5 × 3	5.56	4.810	0.375	3.50	2.900	0.300	7.50	80	16.50
5 × 2½	5.56	4.810	0.375	2.88	2.328	0.276	7.50	80	15.10
6 × 5	6.62	5.756	0.432	5.56	4.810	0.375	9.00	80	31.40
6 × 4	6.62	5.756	0.432	4.50	3.826	0.337	9.00	80	27.90
6 × 3½	6.62	5.756	0.432	4.00	3.364	0.318	9.00	80	26.30
6 × 3	6.62	5.756	0.432	3.50	2.900	0.300	9.00	80	24.90
8 × 6	8.62	7.620	0.500	6.62	5.756	0.432	12.00	80	60.80
8 × 5	8.62	7.620	0.500	5.56	4.810	0.375	12.00	80	54.30
8 × 4	8.62	7.620	0.500	4.50	3.826	0.337	12.00	80	49.50
10 × 8	10.75	9.750	0.500	8.62	7.620	0.500	15.00	*	102.00
10 × 6	10.75	9.750	0.500	6.62	5.756	0.432	15.00	*	86.50
10 × 5	10.75	9.750	0.500	5.56	4.810	0.375	15.00	*	78.50
12 × 10	12.75	11.750	0.500	10.75	9.750	0.500	18.00	*	148.00
12 × 8	12.75	11.750	0.500	8.62	7.620	0.500	18.00	*	132.00
12 × 6	12.75	11.750	0.500	6.62	5.756	0.432	18.00	*	114.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

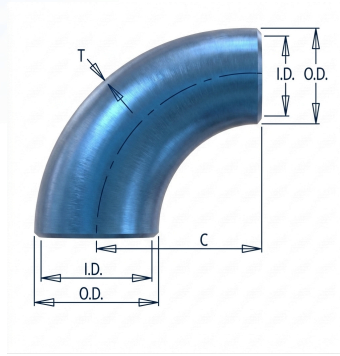
(C) All weights are estimates.

(D) For sizes larger than 12" please call.

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

90° Reducing Elbow — Schedule 40

For Reference Only



	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
Nom. Large × Small	O.D.	I.D.	T	O.D.	I.D.	T	C		
2 × 1½	2.38	2.072	0.154	1.90	1.610	0.145	3.00	40	1.40
2 × 1¼	2.38	2.072	0.154	1.66	1.380	0.140	3.00	40	1.30
2 × 1	2.38	2.072	0.154	1.32	1.054	0.133	3.00	40	1.20
2½ × 2	2.88	2.474	0.203	2.38	2.072	0.154	3.75	40	2.80
2½ × 1½	2.88	2.474	0.203	1.90	1.610	0.145	3.75	40	2.60
2½ × 1¼	2.88	2.474	0.203	1.66	1.380	0.140	3.75	40	2.50
3 × 2½	3.50	3.068	0.216	2.88	2.474	0.203	4.50	40	4.20
3 × 2	3.50	3.068	0.216	2.38	2.072	0.154	4.50	40	3.60
3 × 1½	3.50	3.068	0.216	1.90	1.610	0.145	4.50	40	3.30
3½ × 3	4.00	3.548	0.226	3.50	3.068	0.216	5.25	40	6.00
3½ × 2½	4.00	3.548	0.226	2.88	2.474	0.203	5.25	40	5.50
3½ × 2	4.00	3.548	0.226	2.38	2.072	0.154	5.25	40	4.50
4 × 3½	4.50	4.026	0.237	4.00	3.548	0.226	6.00	40	8.40
4 × 3	4.50	4.026	0.237	3.50	3.068	0.216	6.00	40	7.70
4 × 2½	4.50	4.026	0.237	2.88	2.474	0.203	6.00	40	6.80
4 × 2	4.50	4.026	0.237	2.38	2.072	0.154	6.00	40	6.00
5 × 4	5.56	5.044	0.258	4.50	4.026	0.237	7.50	40	13.40

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

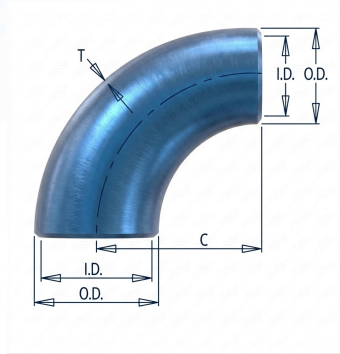
(B) Available in all material grades.

(C) All weights are estimates.

(D) For sizes larger than 12" please call.

90° Reducing Elbow — Schedule 40 (cont.)

For Reference Only



	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
Nom. Large × Small	O.D.	I.D.	T	O.D.	I.D.	T	C		
5 × 3½	5.56	5.044	0.258	4.00	3.548	0.226	7.50	40	12.60
5 × 3	5.56	5.044	0.258	3.50	3.068	0.216	7.50	40	11.80
5 × 2½	5.56	5.044	0.258	2.88	2.474	0.203	7.50	40	10.70
6 × 5	6.62	6.060	0.280	5.56	5.044	0.258	9.00	40	21.00
6 × 4	6.62	6.060	0.280	4.50	4.026	0.237	9.00	40	18.90
6 × 3½	6.62	6.060	0.280	4.00	3.548	0.226	9.00	40	17.80
6 × 3	6.62	6.060	0.280	3.50	3.068	0.216	9.00	40	16.80
8 × 6	8.62	7.976	0.322	6.62	6.060	0.280	12.00	40	39.70
8 × 5	8.62	7.976	0.322	5.56	5.044	0.258	12.00	40	36.20
8 × 4	8.62	7.976	0.322	4.50	4.026	0.237	12.00	40	33.10
10 × 8	10.75	10.020	0.365	8.62	7.976	0.322	15.00	40	73.00
10 × 6	10.75	10.020	0.365	6.62	6.060	0.280	15.00	40	63.20
10 × 5	10.75	10.020	0.365	5.56	5.044	0.258	15.00	40	58.50
12 × 10	12.75	11.938	0.406	10.75	10.020	0.365	18.00	40	115.00
12 × 8	12.75	11.938	0.406	8.62	7.976	0.322	18.00	40	100.00
12 × 6	12.75	11.938	0.406	6.62	6.060	0.280	18.00	40	90.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

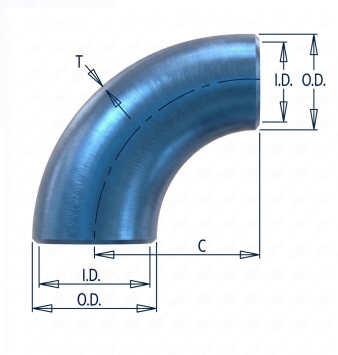
(C) All weights are estimates.

(D) For sizes larger than 12" please call.



90° Reducing Elbow — Schedule 80

For Reference Only



	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
Nom. Large × Small	O.D.	I.D.	T	O.D.	I.D.	T	C		
2 × 1½	2.38	1.944	0.218	1.90	1.500	0.200	3.00	80	1.90
2 × 1¼	2.38	1.944	0.218	1.66	1.278	0.191	3.00	80	1.80
2 × 1	2.38	1.944	0.218	1.32	0.962	0.179	3.00	80	1.70
2½ × 2	2.88	2.328	0.276	2.38	1.944	0.218	3.75	80	3.40
2½ × 1½	2.88	2.328	0.276	1.90	1.500	0.200	3.75	80	3.00
2½ × 1¼	2.88	2.328	0.276	1.66	1.278	0.191	3.75	80	2.90
3 × 2½	3.50	2.900	0.300	2.88	2.328	0.276	4.50	80	5.70
3 × 2	3.50	2.900	0.300	2.38	1.944	0.218	4.50	80	4.90
3 × 1½	3.50	2.900	0.300	1.90	1.500	0.200	4.50	80	4.50
3½ × 3	4.00	3.364	0.318	3.50	2.900	0.300	5.25	80	8.20
3½ × 2½	4.00	3.364	0.318	2.88	2.328	0.276	5.25	80	7.30
3½ × 2	4.00	3.364	0.318	2.38	1.944	0.218	5.25	80	6.40
4 × 3½	4.50	3.826	0.337	4.00	3.364	0.318	6.00	80	11.40
4 × 3	4.50	3.826	0.337	3.50	2.900	0.300	6.00	80	10.50
4 × 2½	4.50	3.826	0.337	2.88	2.328	0.276	6.00	80	9.40
4 × 2	4.50	3.826	0.337	2.38	1.944	0.218	6.00	80	8.40
5 × 4	5.56	4.810	0.375	4.50	3.826	0.337	7.50	80	18.80

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

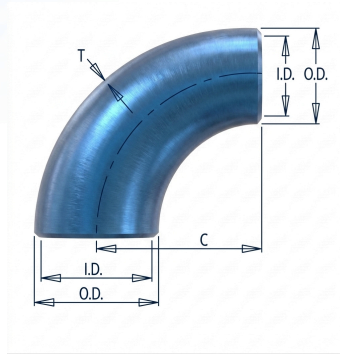
(C) All weights are estimates.

(D) For sizes larger than 12" please call.



90° Reducing Elbow — Schedule 80 (cont.)

For Reference Only



	LARGE DIAMETER			SMALL DIAMETER			Center to End	Pipe Sched. No.	Approx. Wt. Lbs.
Nom. Large × Small	O.D.	I.D.	T	O.D.	I.D.	T	C		
5 × 3½	5.56	4.810	0.375	4.00	3.364	0.318	7.50	80	17.40
5 × 3	5.56	4.810	0.375	3.50	2.900	0.300	7.50	80	16.50
5 × 2½	5.56	4.810	0.375	2.88	2.328	0.276	7.50	80	15.10
6 × 5	6.62	5.756	0.432	5.56	4.810	0.375	9.00	80	31.40
6 × 4	6.62	5.756	0.432	4.50	3.826	0.337	9.00	80	27.90
6 × 3½	6.62	5.756	0.432	4.00	3.364	0.318	9.00	80	26.30
6 × 3	6.62	5.756	0.432	3.50	2.900	0.300	9.00	80	24.90
8 × 6	8.62	7.620	0.500	6.62	5.756	0.432	12.00	80	60.80
8 × 5	8.62	7.620	0.500	5.56	4.810	0.375	12.00	80	54.30
8 × 4	8.62	7.620	0.500	4.50	3.826	0.337	12.00	80	49.50
10 × 8	10.75	9.562	0.594	8.62	7.620	0.500	15.00	80	105.00
10 × 6	10.75	9.562	0.594	6.62	5.756	0.432	15.00	80	90.00
10 × 5	10.75	9.562	0.594	5.56	4.810	0.375	15.00	80	80.00
12 × 10	12.75	11.374	0.688	10.75	9.562	0.594	18.00	80	155.00
12 × 8	12.75	11.374	0.688	8.62	7.620	0.500	18.00	80	135.00
12 × 6	12.75	11.374	0.688	6.62	5.756	0.432	18.00	80	120.00

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 12" please call.