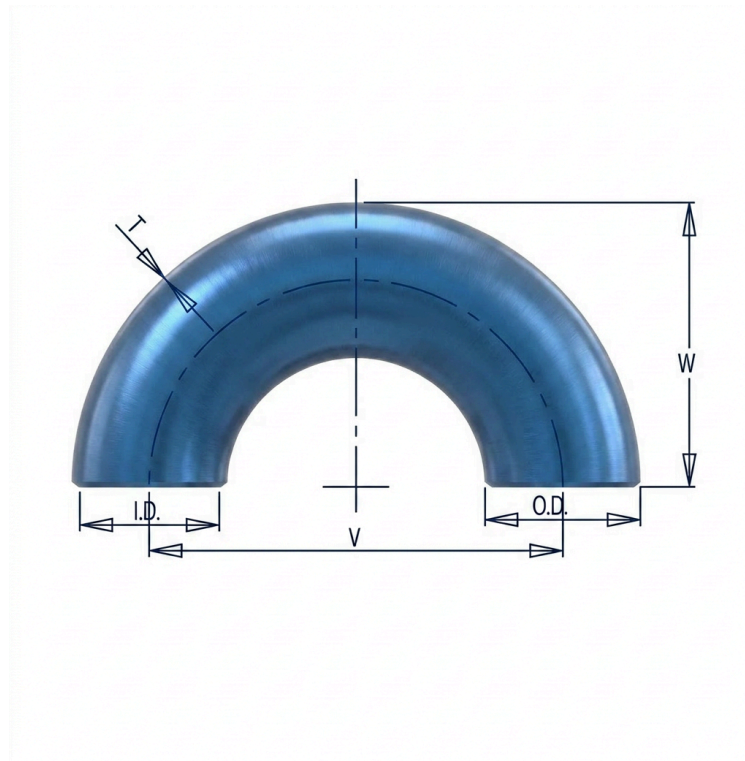


180° Long Radius Return Bends

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



AVAILABLE SCHEDULES

STD

XS

40

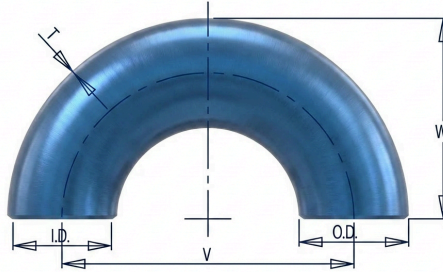
80

160

XXS



180° Long Radius Return Bend — Schedule STD



LONG RADIUS — SCHEDULE STD

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	V	W		Lbs.
1/2	0.84	0.622	0.109	3.00	1.88	40	0.32
3/4	1.05	0.824	0.113	3.00	2.00	40	0.34
1	1.32	1.049	0.133	3.00	2.19	40	0.74
1 1/4	1.66	1.380	0.140	3.75	2.75	40	1.10
1 1/2	1.90	1.610	0.145	4.50	3.25	40	1.60
2	2.38	2.067	0.154	6.00	4.19	40	3.20
2 1/2	2.88	2.469	0.203	7.50	5.19	40	6.10
3	3.50	3.068	0.216	9.00	6.25	40	9.40
3 1/2	4.00	3.548	0.226	10.50	7.25	40	12.80
4	4.50	4.026	0.237	12.00	8.25	40	17.50
5	5.56	5.047	0.258	15.00	10.31	40	29.30
6	6.62	6.065	0.280	18.00	12.31	40	47.00
8	8.62	7.981	0.322	24.00	16.31	40	87.00
10	10.75	10.020	0.365	30.00	20.38	40	164.00
12	12.75	12.000	0.375	36.00	24.38	*	237.00
14	14.00	13.250	0.375	42.00	28.00	30	311.00
16	16.00	15.250	0.375	48.00	32.00	30	408.00
18	18.00	17.250	0.375	54.00	36.00	*	514.00
20	20.00	19.250	0.375	60.00	40.00	20	636.00
24	24.00	23.250	0.375	72.00	48.00	20	908.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

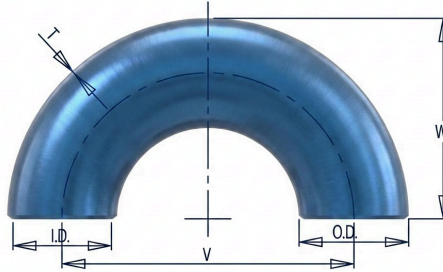
(B) Available in all material grades.

(C) All weights are estimates.

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

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

180° Long Radius Return Bend — Schedule XS



LONG RADIUS — SCHEDULE XS

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	V	W		Lbs.
1/2	0.84	0.546	0.147	3.00	1.88	80	0.45
3/4	1.05	0.742	0.154	3.00	2.00	80	0.52
1	1.32	0.957	0.179	3.00	2.19	80	0.97
1 1/4	1.66	1.278	0.191	3.75	2.75	80	1.60
1 1/2	1.90	1.500	0.200	4.50	3.25	80	2.20
2	2.38	1.939	0.218	6.00	4.19	80	4.10
2 1/2	2.88	2.323	0.276	7.50	5.19	80	7.70
3	3.50	2.900	0.300	9.00	6.25	80	12.40
3 1/2	4.00	3.364	0.318	10.50	7.25	80	17.10
4	4.50	3.826	0.337	12.00	8.25	80	24.10
5	5.56	4.813	0.375	15.00	10.31	80	41.70
6	6.62	5.761	0.432	18.00	12.31	80	68.20
8	8.62	7.625	0.500	24.00	16.31	80	140.00
10	10.75	9.750	0.500	30.00	20.38	60	217.00
12	12.75	11.750	0.500	36.00	24.38	*	311.00
14	14.00	13.000	0.500	42.00	28.00	*	400.00
16	16.00	15.000	0.500	48.00	32.00	40	540.00
18	18.00	17.000	0.500	54.00	36.00	*	686.00
20	20.00	19.000	0.500	60.00	40.00	30	840.00
24	24.00	23.000	0.500	72.00	48.00	*	1210.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

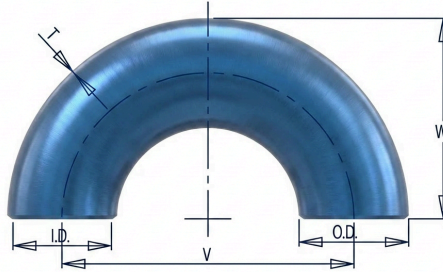
(B) Available in all material grades.

(C) All weights are estimates.

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

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

180° Long Radius Return Bend — Schedule 40



LONG RADIUS — SCHEDULE 40

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	V	W		Lbs.
1/2	0.84	0.622	0.109	3.00	1.88	40	0.32
3/4	1.05	0.824	0.113	3.00	2.00	40	0.34
1	1.32	1.054	0.133	3.00	2.19	40	0.74
1 1/4	1.66	1.380	0.140	3.75	2.75	40	1.10
1 1/2	1.90	1.610	0.145	4.50	3.25	40	1.60
2	2.38	2.072	0.154	6.00	4.19	40	3.20
2 1/2	2.88	2.474	0.203	7.50	5.19	40	6.10
3	3.50	3.068	0.216	9.00	6.25	40	9.40
3 1/2	4.00	3.548	0.226	10.50	7.25	40	12.80
4	4.50	4.026	0.237	12.00	8.25	40	17.50
5	5.56	5.044	0.258	15.00	10.31	40	29.30
6	6.62	6.060	0.280	18.00	12.31	40	47.00
8	8.62	7.976	0.322	24.00	16.31	40	87.00
10	10.75	10.020	0.365	30.00	20.38	40	164.00
12	12.75	11.938	0.406	36.00	24.38	40	240.00
14	14.00	13.124	0.438	42.00	28.00	40	315.00
16	16.00	15.000	0.500	48.00	32.00	40	410.00
18	18.00	16.876	0.562	54.00	36.00	40	520.00
20	20.00	18.812	0.594	60.00	40.00	40	640.00
24	24.00	22.624	0.688	72.00	48.00	40	915.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

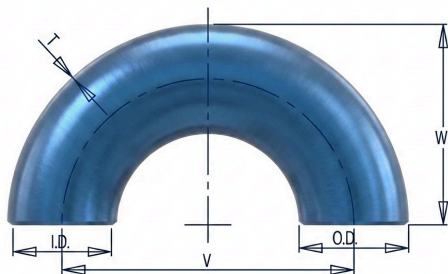
(B) Available in all material grades.

(C) All weights are estimates.

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



180° Long Radius Return Bend — Schedule 80



LONG RADIUS — SCHEDULE 80

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	V	W		Lbs.
1/2	0.84	0.546	0.147	3.00	1.88	80	0.45
3/4	1.05	0.742	0.154	3.00	2.00	80	0.52
1	1.32	0.962	0.179	3.00	2.19	80	0.97
1 1/4	1.66	1.278	0.191	3.75	2.75	80	1.60
1 1/2	1.90	1.500	0.200	4.50	3.25	80	2.20
2	2.38	1.944	0.218	6.00	4.19	80	4.10
2 1/2	2.88	2.328	0.276	7.50	5.19	80	7.70
3	3.50	2.900	0.300	9.00	6.25	80	12.40
3 1/2	4.00	3.364	0.318	10.50	7.25	80	17.10
4	4.50	3.826	0.337	12.00	8.25	80	24.10
5	5.56	4.810	0.375	15.00	10.31	80	41.70
6	6.62	5.756	0.432	18.00	12.31	80	68.20
8	8.62	7.620	0.500	24.00	16.31	80	140.00
10	10.75	9.562	0.594	30.00	20.38	80	220.00
12	12.75	11.374	0.688	36.00	24.38	80	315.00
14	14.00	12.500	0.750	42.00	28.00	80	410.00
16	16.00	14.312	0.844	48.00	32.00	80	550.00
18	18.00	16.124	0.938	54.00	36.00	80	695.00
20	20.00	17.938	1.031	60.00	40.00	80	850.00
24	24.00	21.562	1.219	72.00	48.00	80	1225.00

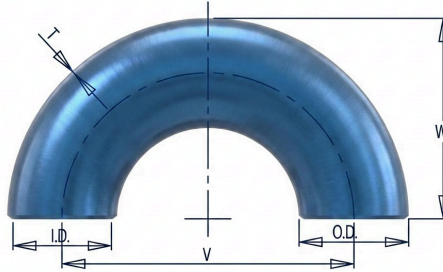
DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.

180° Long Radius Return Bend — Schedule 160



LONG RADIUS — SCHEDULE 160

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	V	W		Lbs.
1/2	0.84	0.464	0.188	3.00	1.88	160	0.40
3/4	1.05	0.612	0.219	3.00	2.00	160	0.43
1	1.32	0.820	0.250	3.00	2.19	160	0.93
1 1/4	1.66	1.160	0.250	3.75	2.75	160	1.38
1 1/2	1.90	1.338	0.281	4.50	3.25	160	2.00
2	2.38	1.692	0.344	6.00	4.19	160	4.00
2 1/2	2.88	2.130	0.375	7.50	5.19	160	7.63
3	3.50	2.624	0.438	9.00	6.25	160	11.75
4	4.50	3.438	0.531	12.00	8.25	160	21.88
5	5.56	4.310	0.625	15.00	10.31	160	36.63
6	6.62	5.182	0.719	18.00	12.31	160	58.75
8	8.62	6.808	0.906	24.00	16.31	160	108.75
10	10.75	8.500	1.125	30.00	20.38	160	205.00
12	12.75	10.126	1.312	36.00	24.38	160	296.25
14	14.00	11.188	1.406	42.00	28.00	160	388.75
16	16.00	12.812	1.594	48.00	32.00	160	510.00
18	18.00	14.438	1.781	54.00	36.00	160	642.50
20	20.00	16.062	1.969	60.00	40.00	160	795.00
24	24.00	19.312	2.344	72.00	48.00	160	1135.00

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

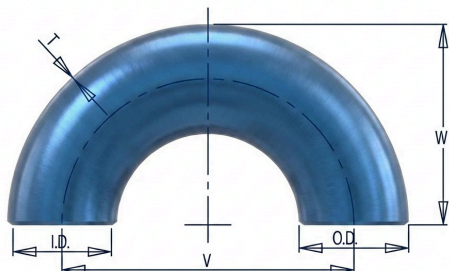
(A) Manufactured to ASME B16.9 standards.

(B) Available in all material grades.

(C) All weights are estimates.



180° Long Radius Return Bend — Schedule XXS



LONG RADIUS — SCHEDULE XXS

Nom. Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	V	W		Lbs.
1/2	0.84	0.252	0.294	3.00	1.88	*	0.44
3/4	1.05	0.434	0.308	3.00	2.00	*	0.47
1	1.32	0.604	0.358	3.00	2.19	*	1.02
1 1/4	1.66	0.896	0.382	3.75	2.75	*	1.51
1 1/2	1.90	1.100	0.400	4.50	3.25	*	2.20
2	2.38	1.508	0.436	6.00	4.19	*	4.40
2 1/2	2.88	1.776	0.552	7.50	5.19	*	8.39
3	3.50	2.300	0.600	9.00	6.25	*	12.93
4	4.50	3.152	0.674	12.00	8.25	*	24.06
5	5.56	4.060	0.750	15.00	10.31	*	40.29
6	6.62	4.892	0.864	18.00	12.31	*	64.63
8	8.62	6.870	0.875	24.00	16.31	*	119.63
10	10.75	8.750	1.000	30.00	20.38	140	225.50
12	12.75	10.750	1.000	36.00	24.38	120	325.88

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.