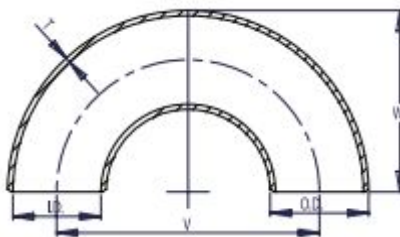


# 180° RETURN BENDS

## LONG RADIUS SCHEDULE STD



Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Kilograms
NPS	O.D.	I.D.	T	V	W		
½	21.3	15.76	2.77	76	48	40	0.15
¾	26.7	20.96	2.87	76	51	40	0.15
1	33.4	26.64	3.38	76	56	40	0.34
1 ¼	42.2	35.08	3.56	95	70	40	0.50
1 ½	48.3	40.94	3.68	114	83	40	0.73
2	60.3	52.48	3.91	152	106	40	1.45
2 ½	73.0	62.68	5.16	190	132	40	2.77
3	88.9	77.92	5.49	229	159	40	4.26
3 ½	101.6	90.12	5.74	267	184	40	5.81
4	114.3	102.26	6.02	305	210	40	7.94
5	141.3	128.20	6.55	381	262	40	13.29
6	168.3	154.08	7.11	457	313	40	21.32
8	219.1	202.74	8.18	610	414	40	39.46
10	273.0	254.46	9.27	762	518	40	74.39
12	323.8	304.74	9.53	914	619	*	107.50
14	355.6	336.54	9.53	1067	711	30	141.07
16	406.4	387.34	9.53	1219	813	30	185.06
18	457.0	437.94	9.53	1372	914	*	233.15
20	508.0	488.94	9.53	1524	1016	20	288.48
24	610.0	590.94	9.53	1829	1219	20	411.86

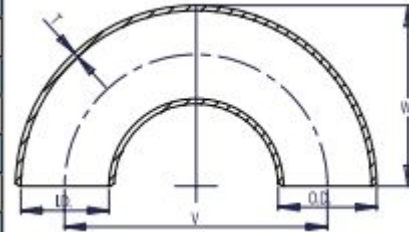
FITTINGS

## LONG RADIUS SCHEDULE XS

Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Kilograms
NPS	O.D.	I.D.	T	V	W		
½	21.3	13.84	3.73	76	48	80	0.20
¾	26.7	18.88	3.91	76	51	80	0.24
1	33.4	24.30	4.55	76	56	80	0.44
1 ¼	42.2	32.50	4.85	95	70	80	0.73
1 ½	48.3	38.14	5.08	114	83	80	1.00
2	60.3	49.22	5.54	152	106	80	1.86
2 ½	73.0	58.98	7.01	190	132	80	3.49
3	88.9	73.66	7.62	229	159	80	5.62
3 ½	101.6	85.44	8.08	267	184	80	7.76
4	114.3	97.18	8.56	305	210	80	10.93
5	141.3	122.24	9.53	381	262	80	18.91
6	168.3	146.36	10.97	457	313	80	30.93
8	219.1	193.70	12.70	610	414	60	63.50
10	273.0	247.60	12.70	762	518	*	98.43
12	323.8	298.40	12.70	914	619	*	141.07
14	355.6	330.20	12.70	1067	711	40	181.44
16	406.4	381.00	12.70	1219	813	*	244.94
18	457.0	431.60	12.70	1372	914	30	311.16
20	508.0	482.60	12.70	1524	1016	*	381.02
24	610.0	584.60	12.70	1829	1219	*	548.84

# 180° RETURN BENDS

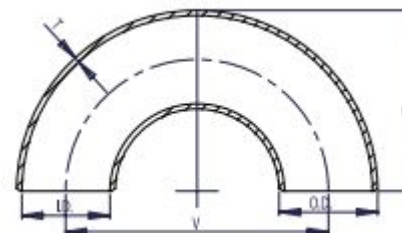
## LONG RADIUS SCHEDULE 40



FITTINGS

Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Kilograms
NPS	O.D.	I.D.	T	V	W		
½	21.3	15.76	2.77	76	48	40	0.15
¾	26.7	20.96	2.87	76	51	40	0.15
1	33.4	26.64	3.38	76	56	40	0.34
1 ¼	42.2	35.08	3.56	95	70	40	0.50
1 ½	48.3	40.94	3.68	114	83	40	0.73
2	60.3	52.48	3.91	152	106	40	1.45
2 ½	73.0	62.68	5.16	190	132	40	2.77
3	88.9	77.92	5.49	229	159	40	4.26
3 ½	101.6	90.12	5.74	267	184	40	5.81
4	114.3	102.26	6.02	305	210	40	7.94
5	141.3	128.20	6.55	381	262	40	13.29
6	168.3	154.08	7.11	457	313	40	21.32
8	219.1	202.74	8.18	610	414	40	39.46
10	273.0	254.46	9.27	762	518	40	74.39
12	323.8	303.18	10.31	914	619	40	108.86
14	355.6	333.34	11.13	1067	711	40	142.88
16	406.4	381.00	12.70	1219	813	40	185.97
18	457.0	428.46	14.27	1372	914	40	235.87
20	508.0	477.82	15.09	1524	1016	40	290.30
24	610.0	575.04	17.48	1829	1219	40	415.03

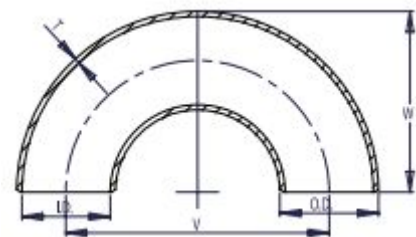
## LONG RADIUS SCHEDULE 80



Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Kilograms
NPS	O.D.	I.D.	T	V	W		
½	21.3	13.84	3.73	76	48	80	0.20
¾	26.7	18.88	3.91	76	51	80	0.24
1	33.4	24.30	4.55	76	56	80	0.44
1 ¼	42.2	32.50	4.85	95	70	80	0.73
1 ½	48.3	38.14	5.08	114	83	80	1.00
2	60.3	49.22	5.54	152	106	80	1.86
2 ½	73.0	58.98	7.01	190	132	80	3.49
3	88.9	73.66	7.62	229	159	80	5.62
3 ½	101.6	85.44	8.08	267	184	80	7.76
4	114.3	97.18	8.56	305	210	80	10.93
5	141.3	122.24	9.53	381	262	80	18.91
6	168.3	146.36	10.97	457	313	80	30.93
8	219.1	193.70	12.70	610	414	80	63.50
10	273.0	242.82	15.09	762	518	80	99.79
12	323.8	288.84	17.48	914	619	80	142.88
14	355.6	317.50	19.05	1067	711	80	185.97
16	406.4	363.52	21.44	1219	813	80	249.47
18	457.0	409.34	23.83	1372	914	80	315.25
20	508.0	455.62	26.19	1524	1016	80	385.55
24	610.0	548.08	30.96	1829	1219	80	555.65

# 180° RETURN BENDS

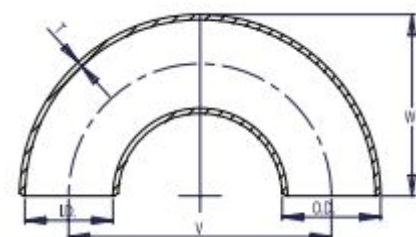
LONG RADIUS  
SCHEDULE 160



Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Kilograms
NPS	O.D.	I.D.	T	V	W		
1/2	21.3	11.74	4.78	76	48	160	0.18
3/4	26.7	15.58	5.56	76	51	160	0.20
1	33.4	20.70	6.35	76	56	160	0.42
1 1/4	42.2	29.50	6.35	95	70	160	0.63
1 1/2	48.3	34.02	7.14	114	83	160	0.91
2	60.3	42.82	8.74	152	106	160	1.81
2 1/2	73.0	53.94	9.53	190	132	160	3.46
3	88.9	66.64	11.13	229	159	160	5.33
4	114.3	87.32	13.49	305	210	160	9.92
5	141.3	109.54	15.88	381	262	160	16.62
6	168.3	131.78	18.26	457	313	160	26.65
8	219.1	173.08	23.01	610	414	160	49.33
10	273.0	215.84	28.58	762	518	160	92.99
12	323.8	257.16	33.32	914	619	160	134.38
14	355.6	284.18	35.71	1067	711	160	176.33
16	406.4	325.42	40.49	1219	813	160	231.33
18	457.0	366.52	45.24	1372	914	160	291.43
20	508.0	407.98	50.01	1524	1016	160	360.60
24	610.0	490.92	59.54	1829	1219	160	514.82

FITTINGS

LONG RADIUS  
SCHEDULE XXS



Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Center to Center	Back to Face	Pipe Schedule Number	Approx. Weight in Kilograms
NPS	O.D.	I.D.	T	V	W		
1/2	21.3	6.36	7.47	76	48	*	0.20
3/4	26.7	11.06	7.82	76	51	*	0.21
1	33.4	15.22	9.09	76	56	*	0.46
1 1/4	42.2	22.80	9.70	95	70	*	0.68
1 1/2	48.3	28.00	10.15	114	83	*	1.00
2	60.3	38.16	11.07	152	106	*	2.00
2 1/2	73.0	44.96	14.02	190	132	*	3.81
3	88.9	58.42	15.24	229	159	*	5.86
4	114.3	80.06	17.12	305	210	*	10.91
5	141.3	103.20	19.05	381	262	*	18.28
6	168.3	124.40	21.95	457	313	*	29.32
8	219.1	174.64	22.23	610	414	*	54.26
10	273.0	222.20	25.40	762	518	140	102.28
12	323.8	273.00	25.40	914	619	120	147.82