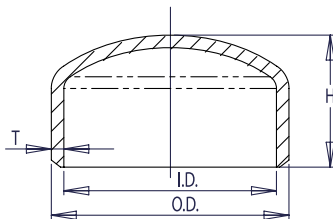


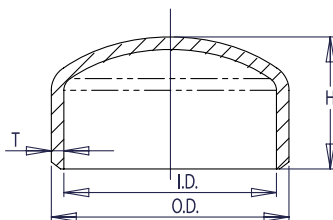
SCHEDULE STD

**WELDBEND** NOTES

1. Conforms to ASME B16.9 & ASTM A234 WPB.
 2. All dimensions are in inches.
 3. For bevel detail see page 107.
 4. For dimensional tolerances see page 108.
 5. For sizes larger than 48" please call.
 6. All weights are in pounds and approximated or estimated.
 7. The shape of the cap is 2:1 ellipsoidal and conforms to the shape requirements given in the ASME Boiler and Pressure Vessel Code.
- * This size and thickness does not correspond to any pipe schedule number.

Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Height	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	H		
½	0.84	0.622	0.109	1.00	40	0.08
¾	1.05	0.824	0.113	1.00	40	0.14
1	1.32	1.049	0.133	1.50	40	0.21
1 ¼	1.66	1.380	0.140	1.50	40	0.33
1 ½	1.90	1.610	0.145	1.50	40	0.54
2	2.38	2.067	0.154	1.50	40	0.80
2 ½	2.88	2.469	0.203	1.50	40	1.00
3	3.50	3.068	0.216	2.00	40	1.70
3 ½	4.00	3.548	0.226	2.50	40	2.30
4	4.50	4.026	0.237	2.50	40	2.80
5	5.56	5.047	0.258	3.00	40	4.60
6	6.62	6.065	0.280	3.50	40	6.90
8	8.62	7.981	0.322	4.00	40	11.80
10	10.75	10.020	0.365	5.00	40	20.80
12	12.75	12.000	0.375	6.00	*	30.30
14	14.00	13.250	0.375	6.50	30	36.50
16	16.00	15.250	0.375	7.00	30	43.50
18	18.00	17.250	0.375	8.00	*	57.00
20	20.00	19.250	0.375	9.00	20	75.70
24	24.00	23.250	0.375	10.50	20	101.00
30	30.00	29.250	0.375	10.50	*	137.00
36	36.00	35.250	0.375	10.50	*	175.00
42	42.00	41.250	0.375	12.00	*	229.00
48	48.00	47.250	0.375	13.50	*	350.00

SCHEDULE XS

**WELDBEND** NOTES

1. Conforms to ASME B16.9 & ASTM A234 WPB.
 2. All dimensions are in inches.
 3. For bevel detail see page 107.
 4. For dimensional tolerances see page 108.
 5. For sizes larger than 48" please call.
 6. All weights are in pounds and approximated or estimated.
 7. The shape of the cap is 2:1 ellipsoidal and conforms to the shape requirements given in the ASME Boiler and Pressure Vessel Code.
- * This size and thickness does not correspond to any pipe schedule number.

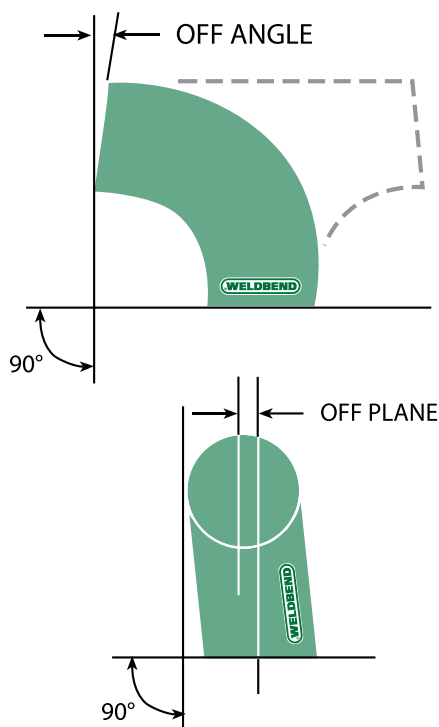
Pipe Size	Outside Diameter	Inside Diameter	Wall Thickness	Height	Pipe Schedule Number	Approx. Weight in Pounds
	O.D.	I.D.	T	H		
½	0.84	0.546	0.147	1.00	80	0.10
¾	1.05	0.742	0.154	1.00	80	0.16
1	1.32	0.957	0.179	1.50	80	0.28
1 ¼	1.66	1.278	0.191	1.50	80	0.48
1 ½	1.90	1.500	0.200	1.50	80	0.67
2	2.38	1.939	0.218	1.50	80	0.92
2 ½	2.88	2.323	0.276	1.50	80	1.30
3	3.50	2.900	0.300	2.00	80	2.10
3 ½	4.00	3.364	0.318	2.50	80	3.00
4	4.50	3.826	0.337	2.50	80	3.50
5	5.56	4.813	0.375	3.00	80	5.80
6	6.62	5.761	0.432	3.50	80	9.30
8	8.62	7.625	0.500	4.00	80	16.00
10	10.75	9.750	0.500	5.00	60	26.00
12	12.75	11.750	0.500	6.00	*	38.00
14	14.00	13.000	0.500	6.50	*	47.00
16	16.00	15.000	0.500	7.00	40	57.00
18	18.00	17.000	0.500	8.00	*	78.00
20	20.00	19.000	0.500	9.00	30	100.00
24	24.00	23.000	0.500	10.50	*	145.00
30	30.00	29.000	0.500	10.50	20	634.00
36	36.00	35.000	0.500	10.50	20	913.00
42	42.00	41.000	0.500	12.00	*	1300.00
48	48.00	47.000	0.500	13.50	*	1675.00

Weldbend Fittings			3R 90° and 3R 45° Elbows	90° and 45° Elbows and Tees	Reducers and Lap Joint Stub Ends	Caps	180° Return Bends			Stub Ends		
Pipe Size	Outside Diameter	Inside Diameter	Center to End	Center to End	Overall Length	Overall Length	Center to Center	Back to Face	Alignment of Ends	Outside Diameter of Lap	Thickness of Lap	Radius of Lap
	O.D.	I.D.	C, A	C, A, B, R	L, J	H	V	W		K	T	N
½ to 2 ½	+0.06, -0.03	0.03	0.09	0.06	0.06	0.12	0.25	0.25	0.03	+0, -0.03	+0, -0.03	+0.06, -0
3 to 3 ½	0.06	0.06	0.09	0.06	0.06	0.12	0.25	0.25	0.03	+0, -0.03	+0, -0.06	+0.06, -0
4	0.06	0.06	0.09	0.06	0.06	0.12	0.25	0.25	0.03	+0, -0.03	+0, -0.06	+0.06, -0
5 to 8	+0.09, -0.06	0.06	0.09	0.06	0.06	0.25	0.25	0.25	0.03	+0, -0.03	+0, -0.06	+0.06, -0
10 to 18	+0.16, -0.12	0.12	0.12	0.09	0.09	0.25	0.38	0.25	0.06	+0, -0.06	+0, -0.06	+0.12, -0
20 to 24	+0.25, -0.19	0.19	0.12	0.09	0.09	0.25	0.38	0.25	0.06	+0, -0.06	+0, -0.06	+0.12, -0
26 to 30	+0.25, -0.19	0.19	0.25	0.12	0.19	0.38						
30 to 48	+0.25, -0.19	0.19	0.38	0.19	0.19	0.38						

WELDBEND NOTES

1. All dimensions are in inches.
2. Tolerances are equal plus and minus unless indicated.
3. The inside diameter and nominal wall thickness at ends are to be specified by purchaser.
4. Please refer to ASME B16.9 for further information regarding tolerances.
5. Minimum wall thickness of 87.5% applies.
6. The out-of-round is the sum of the absolute values of the plus and minus tolerances.

Pipe Size	Off Angle	Off Plane
½ – 4	0.03	0.06
5 – 8	0.06	0.12
10 – 12	0.09	0.19
14 – 16	0.09	0.25
18 – 24	0.12	0.38
26 – 30	0.19	0.38
32 – 42	0.19	0.50
44 – 48	0.19	0.75



DIMENSIONS OF WELDING ENDS

SCHEDULE STD For reference only

Pipe Size	Wall Thickness Designation	Outside Diameter	Inside Diameter	Wall Thickness
		O.D.	I.D.	T
½	STD	0.840	0.622	0.109
¾	STD	1.050	0.824	0.113
1	STD	1.315	1.049	0.133
1 ¼	STD	1.660	1.380	0.140
1 ½	STD	1.900	1.610	0.145
2	STD	2.375	2.067	0.154
2 ½	STD	2.875	2.469	0.203
3	STD	3.500	3.068	0.216
3 ½	STD	4.000	3.548	0.226
4	STD	4.500	4.026	0.237
5	STD	5.563	5.047	0.258
6	STD	6.625	6.065	0.280
8	STD	8.625	7.981	0.322
10	STD	10.750	10.020	0.365
12	STD	12.750	12.000	0.375
14	STD	14.000	13.250	0.375
16	STD	16.000	15.250	0.375
18	STD	18.000	17.250	0.375
20	STD	20.000	19.250	0.375
24	STD	24.000	23.250	0.375
30	STD	30.000	29.250	0.375
36	STD	36.000	35.250	0.375
42	STD	42.000	41.250	0.375
48	STD	48.000	47.250	0.375

WELDBEND NOTES

1. All dimensions are in inches.
2. Designations per ASME B36.10.
STD = SCHEDULE **STANDARD** WALL THICKNESS
3. Conforms to ASME B36.10.