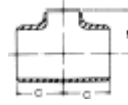


WELD FITTING DIMENSIONS

Nom. Pipe Size In.	OD	Wall Thickness T				90° Elbows		90° Returns		45° Elbows	Tees	Caps	Crosses	Stub Ends	
		ST	XS	160	XX	Long R A	Short R A	Long R K	Short R K	B	C	E	C	F	G
1/2	0.840	0.109	0.147	—	—	1-1/2	—	1-15/16	—	5/8	1	1	—	3	1-3/8
3/4	1.050	0.113	0.154	—	0.308	1-1/8	—	1-11/16	—	7/16	1-1/8	1-1/4	—	3	1-11/16
1	1.315	0.133	0.179	0.250	0.358	1-1/2	1	2-3/16	1-5/8	7/8	1-1/2	1-1/2	—	4	2
1-1/4	1.660	0.140	0.191	0.250	0.382	1-7/8	1-1/4	2-3/4	2-11/16	1	1-7/8	1-1/2	1-7/8	4	2-1/2
1-1/2	1.900	0.145	0.200	0.281	0.400	2-1/4	1-1/2	3-1/4	2-7/16	1-1/8	2-1/4	1-1/2	2-1/4	4	2-7/8
2	2.375	0.154	0.218	0.344	0.436	3	2	4-3/16	3-3/16	1-3/8	2-1/2	1-1/2*	2-1/2	6	3-5/8
2-1/2	2.875	0.203	0.276	0.375	0.552	3-3/4	2-1/2	5-3/16	3-15/16	1-3/4	3	1-1/2	3	6	4-1/8
3	3.500	0.216	0.300	0.438	0.600	4-1/2	3	6-1/4	4-3/4	2	3-3/8	2*	3-3/8	6	5
3-1/2	4.000	0.226	0.318	—	0.636	5-1/4	3-1/2	7-1/4	5-1/2	2-1/4	3-3/4	2-1/2*	3-3/4	6	5-1/2
4	4.500	0.237	0.337	0.531	0.674	6	4	8-1/4	6-1/4	2-1/2	4-1/8	2-1/2*	4-1/8	6	6-3/16
5	5.563	0.258	0.375	0.625	0.750	7-1/2	5	10-5/16	7-3/4	3-1/8	4-7/8	3*	4-7/8	8	7-5/16
6	6.625	0.280	0.432	0.719	0.864	9	6	12-5/16	9-5/16	3-3/4	5-5/8	3-1/2*	5-5/8	8	8-1/2
8	8.625	0.322	0.500	0.906	0.875	12	8	16-5/16	12-5/16	5	7	4*	7	8	10-5/8
10	10.750	0.365	0.500	1.125	1.000	15	10	20-3/8	15-3/8	6-1/4	8-1/2	5*	8-1/2	10	12-3/4
12	12.750	0.375	0.500	1.312	1.000	18	12	24-3/8	18-3/8	7-1/2	10	6*	10	10	15
14	14.000	0.375	0.500	—	—	21	14	28	21	8-3/4	11	6-1/2*	11	12	16-1/4
16	16.000	0.375	0.500	—	—	24	16	32	24	10	12	7*	12	12	18-1/2
18	18.000	0.375	0.500	—	—	27	18	36	27	11-1/4	13-1/2	8*	13-1/2	12	21
20	20.000	0.375	0.500	—	—	30	20	40	30	12-1/2	15	9*	15	12	23
22	22.000	0.375	0.500	—	—	33	—	44	—	13-1/2	16-1/2	10	16-1/2	—	—
24	24.000	0.375	0.500	—	—	36	24	48	36	15	17	10-1/2	17	12	27-1/4
26	26.000	0.375	0.500	—	—	39	—	52	—	16	19-1/2	10-1/2	19-1/2	—	—
30	30.000	0.375	0.500	—	—	45	30	60	45	18-1/2	22	10-1/2	22	—	—
34	34.000	0.375	0.500	—	—	51	—	—	—	21	25	10-1/2	25	—	—
36	36.000	0.375	0.500	—	—	54	36	—	54	22-1/4	26-1/2	10-1/2	—	—	—
42	42.000	0.375	0.500	—	—	63	42	—	—	26	—	12	—	—	—

*Dimensions apply to St and XS only.



WELD FITTING DIMENSIONS				
Nominal Pipe Size Inches		Concentric and Eccentric Reducers	Reducing Outlet Tees	
		H	C	M
1/2 X	1/4	—	1	1
	3/8	—	1	1
3/4 X	3/8	1-1/2	1-1/8	1-1/8
	1/2	1-1/2	1-1/8	1-1/8
1X	3/8	2	1-1/2	1-1/2
	1/2	2	1-1/2	1-1/2
	3/4	2	1-1/2	1-1/2
1-1/4 X	1/2	2	1-7/8	1-7/8
	3/4	2	1-7/8	1-7/8
	1	2	1-7/8	1-7/8
1-1/2 X	1/2	2-1/2	2-1/4	2-1/4
	3/4	2-1/2	2-1/4	2-1/4
	1	2-1/2	2-1/4	2-1/4
	1-1/4	2-1/2	2-1/4	2-1/4
2 X	3/4	3	2-1/2	1-3/4
	1	3	2-1/2	2
	1-1/4	3	2-1/2	2-1/4
	1-1/2	3	2-1/2	2-3/8
2-1/2 X	1	3-1/2	3	2-1/4
	1-1/4	3-1/2	3	2-1/2
	1-1/2	3-1/2	3	2-5/8
	2	3-1/2	3	2-3/4
3 X	1	—	3-3/8	2-5/8
	1-1/4	3-1/2	3-3/8	2-3/4
	1-1/2	3-1/2	3-3/8	2-7/8
	2	3-1/2	3-3/8	3
	2-1/2	3-1/2	3-3/8	3-1/4

WELD FITTING DIMENSIONS

Nominal Pipe Size Inches	Concentric and Eccentric Reducers		Reducing Outlet Tees	
		H	C	M
3-1/2 X	1-1/4	4	—	—
	1-1/2	4	3-3/4	3-1/8
	2	4	3-3/4	3-1/4
	2-1/2	4	3-3/4	3-1/2
	3	4	3-3/4	3-5/8
4 X	1-1/2	4	4-1/8	3-3/8
	2	4	4-1/8	3-1/2
	2-1/2	4	4-1/8	3-3/4
	3	4	4-1/8	3-7/8
	3-1/2	4	4-1/8	4
5 X	2	5	4-7/8	4-1/8
	2-1/2	5	4-7/8	4-1/4
	3	5	4-7/8	4-3/8
	3-1/2	5	4-7/8	4-1/2
	4	5	4-7/8	4-5/8
6 X	2-1/2	5-1/2	5-5/8	4-3/4
	3	5-1/2	5-5/8	4-7/8
	3-1/2	5-1/2	5-5/8	5
	4	5-1/2	5-5/8	5-1/8
	5	5-1/2	5-5/8	5-3/8
8 X	3	—	7	6
	3-1/2	6	7	6
	4	6	7	6-1/8
	5	6	7	6-3/8
	6	6	7	6-5/8
10 X	4	7	8-1/2	7-1/4
	5	7	8-1/2	7-1/2
	6	7	8-1/2	7-5/8
	8	7	8-1/2	8
12 X	5	8	10	8-1/2
	6	8	10	8-5/8
	8	8	10	9
	10	8	10	9-1/2

WELD FITTING DIMENSIONS

Nominal Pipe Size Inches		Concentric and Eccentric Reducers	Reducing Outlet Tees	
		H	C	M
14 X	6	13	11	9-3/8
	8	13	11	9-3/4
	10	13	11	10-1/8
	12	13	11	10-5/8
16 X	6	—	12	10-3/8
	8	14	12	10-3/4
	10	14	12	11-1/8
	12	14	12	11-5/8
	14	14	12	12
18 X	8	—	13-1/2	11-3/4
	10	15	13-1/2	12-1/8
	12	15	13-1/2	12-5/8
	14	15	13-1/2	13
	16	15	13-1/2	13
20 X	8	—	15	12-3/4
	10	—	15	13-1/8
	12	20	15	13-5/8
	14	20	15	14
	16	20	15	14
	18	20	15	14-1/2
22 X	10	—	16-1/2	14-1/8
	12	—	16-1/2	14-5/8
	14	20	16-1/2	15
	16	20	16-1/2	15
	18	20	16-1/2	15-1/2
	20	20	16-1/2	16
24 X	10	—	17	15-1/8
	12	—	17	15-5/8
	14	—	17	16
	16	20	17	16
	18	20	17	16-1/2
	20	20	17	17
26 X	12	—	19-1/2	16-5/8
	14	—	19-1/2	17
	16	—	19-1/2	17
	18	24	19-1/2	17-1/2

WELD FITTING DIMENSIONS

Nominal Pipe Size Inches		Concentric and Eccentric Reducers	Reducing Outlet Tees	
		H	C	M
26 X	20	24	19-1/2	18
	22	24	19-1/2	18-1/2
	24	24	19-1/2	19
30 X	14	—	22	19
	16	—	22	19
	18	—	22	19-1/2
	20	24	22	20
	22	—	22	20-1/2
	24	24	22	21
	26	24	22	21-1/2
34 X	16	—	25	21
	18	—	25	21-1/2
	20	—	25	22
	22	—	25	22-1/2
	24	24	25	23
	26	24	25	23-1/2
	28	—	25	23-1/2
	30	24	25	24
36 X	16	—	26-1/2	22
	18	—	26-1/2	22-1/2
	20	—	26-1/2	23
	22	—	26-1/2	23-1/2
	24	24	26-1/2	24
	26	24	26-1/2	24-1/2
	28	—	26-1/2	24-1/2
	30	24	26-1/2	25
	32	24	26-1/2	25-1/2
	34	24	26-1/2	26
42 X	24	24	—	—
	26	24	—	—
	30	24	—	—
	32	24	—	—
	34	24	—	—
	36	24	—	—