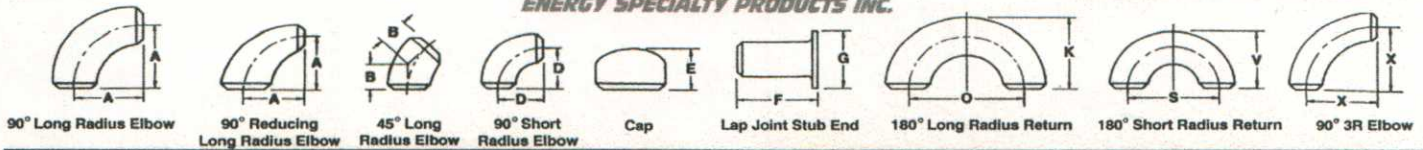


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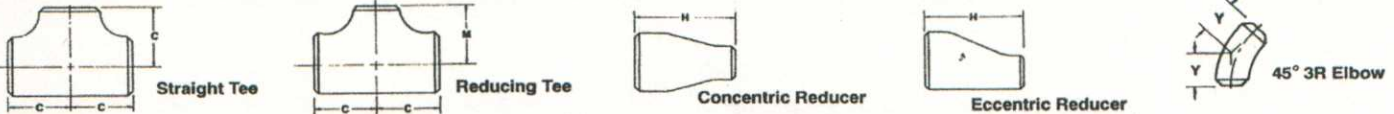


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Welding Fittings



Nom. Pipe Size	Pipe O.D. (in.)	WALL THICKNESS																A	B	D	E	F		G	O	K	S	V	X	Y
		Light Wall	SCH 20	SCH 30	STD	SCH 40	SCH 60	X STG	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	XX STG	ANSI	MSS														
1/2	.84				.109	.109	.147	.147				.188	.294	1.50	.62		1.00	3.00	2.00	1.38	3.00	1.88								
3/4	1.05				.113	.113	.154	.154				.219	.308	1.12	.44		1.00	3.00	2.00	1.69	2.25	1.69								
1	1.32				.133	.133	.179	.179				.250	.358	1.50	.88	1.00	1.50	4.00	2.00	2.00	3.00	2.19	2.00	1.62						
1 1/4	1.66				.140	.140	.191	.191				.250	.382	1.88	1.00	1.25	1.50	4.00	2.00	2.50	3.75	2.75	2.50	2.06						
1 1/2	1.90				.145	.145	.200	.200				.281	.400	2.25	1.12	1.50	1.50	4.00	2.00	2.88	4.50	3.25	3.00	2.44						
2	2.38				.154	.154	.218	.218				.344	.436	3.00	1.38	2.00	1.50	6.00	2.50	3.62	6.00	4.19	4.00	3.19	6.00	2.50				
2 1/2	2.88				.203	.203	.276	.276				.375	.552	3.75	1.75	2.50	1.50	6.00	2.50	4.12	7.50	5.19	5.00	3.94						
3	3.50	.188			.216	.216	.300	.300				.438	.600	4.50	2.00	3.00	2.00	6.00	2.50	5.00	9.00	6.25	6.00	4.75	9.00	3.75				
3 1/2	4.00				.226	.226	.318	.318					.525	2.25	3.50	2.50	6.00	3.00	5.50	10.50	7.25	7.00	5.50							
4	4.50	.188			.237	.237	.337	.337		.438		.531	.674	6.00	2.50	4.00	2.50	6.00	3.00	6.19	12.00	8.25	8.00	6.25	12.00	5.00				
5	5.56				.258	.258	.375	.375		.500		.625	.750	7.50	3.12	5.00	3.00	8.00	3.00	7.31	15.00	10.31	10.00	7.75						
6	6.62	.219			.280	.280	.432	.432		.562		.719	.864	9.00	3.75	6.00	3.50	8.00	3.50	8.50	18.00	12.31	12.00	9.31	18.00	7.50				
8	8.62	.219	.250	.277	.322	.322	.406	.500	.500	.594	.719	.812	.906	.875	12.00	5.00	8.00	4.00	8.00	4.00	10.62	24.00	16.31	16.00	12.31	24.00	10.00			
10	10.75	.219	.250	.307	.365	.365	.500	.500	.594	.719	.844	1.000	1.125	1.000	15.00	6.25	10.00	5.00	10.00	5.00	12.75	30.00	20.38	20.00	15.38	30.00	12.50			
12	12.75	.250	.250	.330	.375	.375	.406	.562	.500	.688	.844	1.000	1.125	1.000	18.00	7.50	12.00	6.00	10.00	6.00	15.00	36.00	24.38	24.00	18.38	36.00	15.00			
14	14.00	.250	.312	.375	.375	.438	.594	.500	.750	.938	1.094	1.250	1.406		21.00	8.75	14.00	6.50	12.00	6.00	16.25	42.00	28.00	28.00	21.00	42.00	17.50			
16	16.00	.250	.312	.375	.375	.438	.500	.562	.750	.844	1.031	1.219	1.438	1.594	24.00	10.00	16.00	7.00	12.00	6.00	18.50	48.00	32.00	32.00	24.00	48.00	19.88			
18	18.00	.250	.312	.438	.375	.562	.750	.500	.938	1.156	1.375	1.562	1.781		27.00	11.25	18.00	8.00	12.00	6.00	21.00	54.00	36.00	36.00	27.00	54.00	22.38			
20	20.00	.250	.375	.500	.375	.594	.812	.500	1.031	1.281	1.500	1.750	1.969		30.00	12.50	20.00	9.00	12.00	6.00	23.00	60.00	40.00	40.00	30.00	60.00	24.88			
24	24.00	.250	.375	.562	.375	.688	.969	.500	1.219	1.531	1.812	2.062	2.344		36.00	15.00	24.00	10.50	12.00	6.00	27.25	72.00	48.00	48.00	36.00	72.00	29.81			
30	30.00	.312	.500	.625	.375	.750	.500	.500							45.00	18.50	30.00	10.50				90.00	60.00	60.00	45.00	90.00	37.25			
36	36.00	.312	.500	.625	.375	.750	.500	.500							54.00	22.25	36.00	10.50					72.00	54.00	54.00	36.00	72.00	44.75		
42	42.00	.312	.500	.625	.375	.750	.500	.500							63.00	26.00	42.00	12.00									108.00	52.19		
48	48.00	.312	.500	.625	.375	.750	.500	.500							72.00	29.88	48.00	13.50									144.00	59.69		



Nom. Pipe Size	Run			Nom. Pipe Size	Run			Nom. Pipe Size	Run			Nom. Pipe Size	Run		
	C	M	H		C	M	H		C	M	H		C	M	H
3/4	3/4	1.12	1.12	3 1/2	3 1/2	3.75	3.75	12	12	10.00		24	24	17.00	
	1/2	1.12	1.50		3	3.75	3.62		4.00	10	10.00		9.50	8.00	22
1	1	1.50	1.50	2	2	3.75	3.50	8	8	10.00	9.00	18	18	17.00	17.00
	3/4	1.50	2.00		1 1/2	3.75	3.25		4.00	6	10.00		8.62	8.00	16
1 1/4	1 1/4	1.50	1.50	4	4	4.12	4.00	14	14	11.00	11.00	30	30	17.00	16.00
	1	1.88	2.00		3 1/2	4.12	3.88		4.00	12	11.00		10.62	13.00	12
1 1/2	1 1/2	1.88	1.88	5	5	4.12	3.75	16	16	11.00	9.75	36	36	17.00	16.00
	3/4	1.88	2.00		2	4.12	3.50		4.00	10	11.00		9.38	13.00	14
2	2	2.25	2.25	6	6	4.12	3.38	18	18	12.00	12.00	42	42	17.00	15.12
	1 1/4	2.25	2.50		5	4.88	4.62		5.00	14	12.00		11.62	14.00	16
2 1/2	2 1/2	2.25	2.25	8	8	4.88	4.50	20	20	12.00	11.12	48	48	17.00	15.12
	1	2.25	2.50		3 1/2	4.88	4.38		5.00	12	12.00		10.75	14.00	30
3	3	2.25	2.50	10	10	4.88	4.25	24	24	12.00	10.38	48	48	22.00	20.00
	1 1/2	2.50	3.00		6	5.62	5.38		5.50	18	13.50		13.00	15.00	36
3 1/2	3 1/2	2.50	3.00	12	12	5.62	5.00	36	36	13.50	12.62	72	72	22.00	20.00
	2	2.50	3.00		8	5.62	4.88		5.50	24	13.50		12.12	15.00	42
4	4	2.50	3.00	16	16	5.62	4.75	42	42	13.50	11.75	84	84	22.00	20.00
	3/4	2.50	3.00		10	7.00	6.62		6.00	30	15.00		14.50	20.00	48
4 1/2	4 1/2	3.00	2.75	20	20	7.00	6.00	72	72	15.00	14.00	144	144	22.00	20.00
	2 1/2	3.00	2.50		14	7.00	6.38		6.00	42	15.00		14.00	20.00	72
5	5	3.00	2.50	24	24	7.00	6.00	84	84	15.00	13.62	168	168	22.00	20.00
	3/4	3.00	3.50		18	7.00	6.12		6.00	54	15.00		13.12	20.00	84
6	6	3.00	2.25	30	30	7.00	6.00	108	108	15.00	12.75	216	216	22.00	20.00
	1	3.00	3.50		24	7.00	6.00		6.00	60	15.00		12.75	20.00	108
7	7	3.38	3.25	36	36	8.50	8.00	144	144	15.00	12.75	288	288	22.00	20.00
	3/4	3.38	3.00		30	8.50	7.62		7.00	120	15.00		12.75	20.00	144
8	8	3.38	2.88	48	48	8.50	7.50	192	192	15.00	12.75	384	384	22.00	20.00
	1 1/4	3.38	3.50		36	8.50	7.25		7.00	160	15.00		12.75	20.00	192
9	9	3.38	2.75	60	60	8.50	7.25	252	252	15.00	12.75	504	504	22.00	20.00
	3/4	3.38	3.50		48	8.50	7.25		7.00	200	15.00		12.75	20.00	252
10	10	3.38	2.75	80	80	8.50	7.25	336	336	15.00	12.75	672	672	22.00	20.00
	1 1/4	3.38	3.50		60	8.50	7.25		7.00	250	15.00		12.75	20.00	336

NOTES: Fittings conform to ASTM A234 WPB with dimensions to ANSI B16.9 except that short radius elbows and returns conform to ANSI B16.28 and 3R elbows conform to MSS-SP75.

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