

# WROUGHT STEEL BUTT-WELDING FITTING

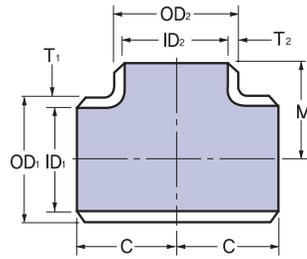
## • Tee

Sch20, Sch30, Sch60, Sch100, Sch120, Sch140

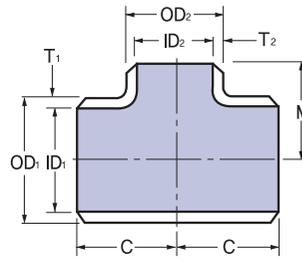
ASME B16.9

Unit : inch

Nominal Pipe Size	Outside Diameter		Center-to-End		Sch20		Sch30	
	OD <sub>1</sub>	OD <sub>2</sub>	Run C	Outlet M	T <sub>1</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>2</sub>
4 × 4 × 4	4.500	4.500	4.12	4.12	-	-	-	-
5 × 5 × 5	5.563	5.563	4.88	4.88	-	-	-	-
5 × 5 × 4	5.563	4.500	4.88	4.62	-	-	-	-
6 × 6 × 6	6.625	6.625	5.62	5.62	-	-	-	-
6 × 6 × 5	6.625	5.563	5.62	5.38	-	-	-	-
6 × 6 × 4	6.625	4.500	5.62	5.12	-	-	-	-
8 × 8 × 8	8.625	8.625	7.00	7.00	0.250	0.250	0.277	0.277
8 × 8 × 6	8.625	6.625	7.00	6.62	-	-	-	-
8 × 8 × 5	8.625	5.563	7.00	6.38	-	-	-	-
8 × 8 × 4	8.625	4.500	7.00	6.12	-	-	-	-
10 × 10 × 10	10.750	10.750	8.50	8.50	0.250	0.250	0.307	0.307
10 × 10 × 8	10.750	8.625	8.50	8.00	0.250	0.250	0.307	0.277
10 × 10 × 6	10.750	6.625	8.50	7.62	-	-	-	-
10 × 10 × 5	10.750	5.563	8.50	7.50	-	-	-	-
10 × 10 × 4	10.750	4.500	8.50	7.25	-	-	-	-
12 × 12 × 12	12.750	12.750	10.00	10.00	0.250	0.250	0.330	0.330
12 × 12 × 10	12.750	10.750	10.00	9.50	0.250	0.250	0.330	0.307
12 × 12 × 8	12.750	8.625	10.00	9.00	0.250	0.250	0.330	0.277
12 × 12 × 6	12.750	6.625	10.00	8.62	-	-	-	-
12 × 12 × 5	12.750	5.563	10.00	8.50	-	-	-	-
14 × 14 × 14	14.000	14.000	11.00	11.00	0.312	0.312	0.375	0.375
14 × 14 × 12	14.000	12.750	11.00	10.62	0.312	0.250	0.375	0.330
14 × 14 × 10	14.000	10.750	11.00	10.12	0.312	0.250	0.375	0.307
14 × 14 × 8	14.000	8.625	11.00	9.75	0.312	0.250	0.375	0.277
14 × 14 × 6	14.000	6.625	11.00	9.38	-	-	-	-
16 × 16 × 16	16.000	16.000	12.00	12.00	0.312	0.312	0.375	0.375
16 × 16 × 14	16.000	14.000	12.00	12.00	0.312	0.312	0.375	0.375
16 × 16 × 12	16.000	12.750	12.00	11.62	0.312	0.250	0.375	0.330
16 × 16 × 10	16.000	10.750	12.00	11.12	0.312	0.250	0.375	0.307
16 × 16 × 8	16.000	8.625	12.00	10.75	0.312	0.250	0.375	0.277
16 × 16 × 6	16.000	6.625	12.00	10.38	-	-	-	-



Straight



Reducing

Unit : inch

Sch60		Sch100		Sch120		Sch140		Nominal Pipe Size
T <sub>1</sub>	T <sub>2</sub>							
-	-	-	-	0.438	0.438	-	-	4 × 4 × 4
-	-	-	-	0.500	0.500	-	-	5 × 5 × 5
-	-	-	-	0.500	0.438	-	-	5 × 5 × 4
-	-	-	-	0.562	0.562	-	-	6 × 6 × 6
-	-	-	-	0.562	0.500	-	-	6 × 6 × 5
-	-	-	-	0.562	0.438	-	-	6 × 6 × 4
0.406	0.406	0.594	0.594	0.719	0.719	0.812	0.812	8 × 8 × 8
-	-	-	-	0.719	0.562	-	-	8 × 8 × 6
-	-	-	-	0.719	0.500	-	-	8 × 8 × 5
-	-	-	-	0.719	0.438	-	-	8 × 8 × 4
0.500	0.500	0.719	0.719	0.844	0.844	1.000	1.000	10 × 10 × 10
0.500	0.406	0.719	0.594	0.844	0.719	1.000	0.812	10 × 10 × 8
-	-	-	-	0.844	0.562	-	-	10 × 10 × 6
-	-	-	-	0.844	0.500	-	-	10 × 10 × 5
-	-	-	-	0.844	0.438	-	-	10 × 10 × 4
0.562	0.562	0.844	0.844	1.000	1.000	1.125	1.125	12 × 12 × 12
0.562	0.500	0.844	0.719	1.000	0.844	1.125	1.000	12 × 12 × 10
0.562	0.406	0.844	0.594	1.000	0.719	1.125	0.812	12 × 12 × 8
-	-	-	-	1.000	0.562	-	-	12 × 12 × 6
-	-	-	-	1.000	0.500	-	-	12 × 12 × 5
0.594	0.594	0.936	0.936	1.094	1.094	1.250	1.250	14 × 14 × 14
0.594	0.562	0.936	0.844	1.094	1.000	1.250	1.125	14 × 14 × 12
0.594	0.500	0.936	0.719	1.094	0.844	1.250	1.000	14 × 14 × 10
0.594	0.406	0.936	0.594	1.094	0.719	1.250	0.812	14 × 14 × 8
-	-	-	-	1.094	0.562	-	-	14 × 14 × 6
0.656	0.656	1.031	1.031	1.219	1.219	1.438	1.438	16 × 16 × 16
0.656	0.594	1.031	0.936	1.219	1.094	1.438	1.250	16 × 16 × 14
0.656	0.562	1.031	0.844	1.219	1.000	1.438	1.125	16 × 16 × 12
0.656	0.500	1.031	0.719	1.219	0.844	1.438	1.000	16 × 16 × 10
0.656	0.406	1.031	0.594	1.219	0.719	1.438	0.812	16 × 16 × 8
-	-	-	-	1.219	0.562	-	-	16 × 16 × 6

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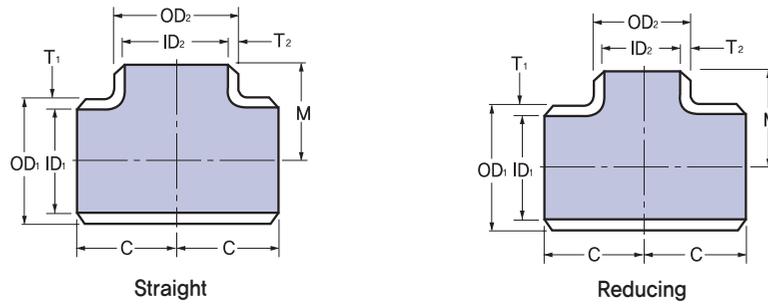
## • Tee

Sch20, Sch30, Sch60, Sch100, Sch120, Sch140

ASME B16.9

Unit : inch

Nominal Pipe Size	Outside Diameter		Center to End		Sch20		Sch30	
	OD <sub>1</sub>	OD <sub>2</sub>	Run C	Outlet M	T <sub>1</sub>	T <sub>2</sub>	T <sub>1</sub>	T <sub>2</sub>
18 × 18 × 18	18.000	18.000	13.50	13.50	0.312	0.312	0.438	0.438
18 × 18 × 16	18.000	16.000	13.50	13.00	0.312	0.312	0.438	0.375
18 × 18 × 14	18.000	14.000	13.50	13.00	0.312	0.312	0.438	0.375
18 × 18 × 12	18.000	12.750	13.50	12.62	0.312	0.250	0.438	0.330
18 × 18 × 10	18.000	10.750	13.50	12.12	0.312	0.250	0.438	0.307
18 × 18 × 8	18.000	8.620	13.50	11.75	0.312	0.250	0.438	0.277
20 × 20 × 20	20.000	20.000	15.00	15.00	0.375	0.375	0.500	0.500
20 × 20 × 18	20.000	18.000	15.00	14.50	0.375	0.312	0.500	0.438
20 × 20 × 16	20.000	16.000	15.00	14.00	0.375	0.312	0.500	0.375
20 × 20 × 14	20.000	14.000	15.00	14.00	0.375	0.312	0.500	0.375
20 × 20 × 12	20.000	12.750	15.00	13.62	0.375	0.250	0.500	0.330
20 × 20 × 10	20.000	10.750	15.00	13.12	0.375	0.250	0.500	0.307
20 × 20 × 8	20.000	8.620	15.00	12.75	0.375	0.250	0.500	0.277
22 × 22 × 22	22.000	22.000	16.50	16.50	0.375	0.375	0.500	0.500
22 × 22 × 20	22.000	20.000	16.50	16.00	0.375	0.375	0.500	0.500
22 × 22 × 18	22.000	18.000	16.50	15.50	0.375	0.312	0.500	0.438
22 × 22 × 16	22.000	16.000	16.50	15.00	0.375	0.312	0.500	0.375
22 × 22 × 14	22.000	14.000	16.50	15.00	0.375	0.312	0.500	0.375
22 × 22 × 12	22.000	12.750	16.50	14.62	0.375	0.250	0.500	0.330
22 × 22 × 10	22.000	10.750	16.50	14.12	0.375	0.250	0.500	0.307
24 × 24 × 24	24.000	24.000	17.00	17.00	0.375	0.375	0.562	0.562
24 × 24 × 22	24.000	22.000	17.00	17.00	0.375	0.375	0.562	0.500
24 × 24 × 20	24.000	20.000	17.00	17.00	0.375	0.375	0.562	0.500
24 × 24 × 18	24.000	18.000	17.00	16.50	0.375	0.312	0.562	0.438
24 × 24 × 16	24.000	16.000	17.00	16.00	0.375	0.312	0.562	0.375
24 × 24 × 14	24.000	14.000	17.00	16.00	0.375	0.312	0.562	0.375
24 × 24 × 12	24.000	12.750	17.00	15.62	0.375	0.250	0.562	0.330
24 × 24 × 10	24.000	10.750	17.00	15.12	0.375	0.250	0.562	0.307
26 × 26 × 26	26.000	26.000	19.50	19.50	0.500	0.500	-	-
26 × 26 × 24	26.000	24.000	19.50	19.00	0.500	0.375	-	-
26 × 26 × 22	26.000	22.000	19.50	18.50	0.500	0.375	-	-
26 × 26 × 20	26.000	20.000	19.50	18.00	0.500	0.375	-	-
26 × 26 × 18	26.000	18.000	19.50	17.50	0.500	0.312	-	-
26 × 26 × 16	26.000	16.000	19.50	17.00	0.500	0.312	-	-
26 × 26 × 14	26.000	14.000	19.50	17.00	0.500	0.312	-	-
26 × 26 × 12	26.000	12.750	19.50	16.62	0.500	0.250	-	-



Unit : inch

Sch60		Sch100		Sch120		Sch140		Nominal Pipe Size
T <sub>1</sub>	T <sub>2</sub>							
0.750	0.750	1.156	1.156	1.375	1.375	1.562	1.562	18 × 18 × 18
0.750	0.656	1.156	1.031	1.375	1.219	1.562	1.438	18 × 18 × 16
0.750	0.594	1.156	0.938	1.375	1.094	1.562	1.250	18 × 18 × 14
0.750	0.562	1.156	0.844	1.375	1.000	1.562	1.125	18 × 18 × 12
0.750	0.500	1.156	0.719	1.375	0.844	1.562	1.000	18 × 18 × 10
0.750	0.406	1.156	0.594	1.375	0.719	1.562	0.812	18 × 18 × 8
0.812	0.812	1.281	1.281	1.500	1.500	1.750	1.750	20 × 20 × 20
0.812	0.750	1.281	1.156	1.500	1.375	1.750	1.562	20 × 20 × 18
0.812	0.656	1.281	1.031	1.500	1.219	1.750	1.438	20 × 20 × 16
0.812	0.594	1.281	0.938	1.500	1.094	1.750	1.250	20 × 20 × 14
0.812	0.562	1.281	0.844	1.500	1.000	1.750	1.125	20 × 20 × 12
0.812	0.500	1.281	0.719	1.500	0.844	1.750	1.000	20 × 20 × 10
0.812	0.406	1.281	0.594	1.500	0.719	1.750	0.812	20 × 20 × 8
0.875	0.875	1.375	1.375	1.625	1.625	1.875	1.875	22 × 22 × 22
0.875	0.812	1.375	1.281	1.625	1.500	1.875	1.750	22 × 22 × 20
0.875	0.750	1.375	1.156	1.625	1.375	1.875	1.562	22 × 22 × 18
0.875	0.656	1.375	1.031	1.625	1.219	1.875	1.438	22 × 22 × 16
0.875	0.594	1.375	0.938	1.625	1.094	1.875	1.250	22 × 22 × 14
0.875	0.562	1.375	0.844	1.625	1.000	1.875	1.125	22 × 22 × 12
0.875	0.500	1.375	0.719	1.625	0.844	1.875	1.000	22 × 22 × 10
0.969	0.969	1.531	1.531	1.812	1.812	2.062	2.062	24 × 24 × 24
0.969	0.875	1.531	1.375	1.812	1.625	2.062	1.875	24 × 24 × 22
0.969	0.812	1.531	1.281	1.812	1.500	2.062	1.750	24 × 24 × 20
0.969	0.750	1.531	1.156	1.812	1.375	2.062	1.562	24 × 24 × 18
0.969	0.656	1.531	1.031	1.812	1.219	2.062	1.438	24 × 24 × 16
0.969	0.594	1.531	0.938	1.812	1.094	2.062	1.250	24 × 24 × 14
0.969	0.562	1.531	0.844	1.812	1.000	2.062	1.125	24 × 24 × 12
0.969	0.500	1.531	0.719	1.812	0.844	2.062	1.000	24 × 24 × 10
-	-	-	-	-	-	-	-	26 × 26 × 26
-	-	-	-	-	-	-	-	26 × 26 × 24
-	-	-	-	-	-	-	-	26 × 26 × 22
-	-	-	-	-	-	-	-	26 × 26 × 20
-	-	-	-	-	-	-	-	26 × 26 × 18
-	-	-	-	-	-	-	-	26 × 26 × 16
-	-	-	-	-	-	-	-	26 × 26 × 14
-	-	-	-	-	-	-	-	26 × 26 × 12

STEEL | KS/JIS  
 STAINLESS STEEL | KS/JIS  
 STEEL | ASME  
 STAINLESS STEEL | ASME  
 REFERENCES