

WROUGHT STEEL BUTT-WELDING FITTING

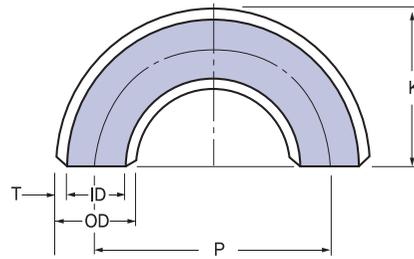
• 180° Elbow (Long, Short)

STD, Sch40, X-S, Sch80, Sch160, XX-S
Sch20, Sch30, Sch60, Sch100, Sch120, Sch140

ASME B16.9, ASME B16.28

Nominal Pipe Size	Outside Diameter OD	Long		Short		STD		Sch 40	
		Center to Center O	Back to Face K	Center to Center O	Back to Face K	T	ID	T	ID
1/2	0.840	3.00	1.88	-	-	0.109	0.622	0.109	0.622
3/4	1.050	3.00	2.00	-	-	0.113	0.824	0.113	0.824
1	1.315	3.00	2.19	2.00	1.62	0.133	1.049	0.133	1.049
1 1/4	1.660	3.75	2.75	2.50	2.06	0.140	1.380	0.140	1.380
1 1/2	1.900	4.50	3.25	3.00	2.44	0.145	1.610	0.145	1.610
2	2.375	6.00	4.19	4.00	3.19	0.154	2.067	0.154	2.067
2 1/2	2.875	7.50	5.19	5.00	3.94	0.203	2.469	0.203	2.469
3	3.500	9.00	6.25	6.00	4.75	0.216	3.068	0.216	3.068
3 1/2	4.000	10.50	7.25	7.00	5.50	0.226	3.548	0.226	3.548
4	4.500	12.00	8.25	8.00	6.25	0.237	4.026	0.237	4.026
5	5.563	15.00	10.31	10.00	7.75	0.258	5.047	0.258	5.047
6	6.625	18.00	12.31	12.00	9.31	0.280	6.065	0.280	6.065
8	8.625	24.00	16.31	16.00	12.31	0.322	7.981	0.322	7.981
10	10.750	30.00	20.38	20.00	15.38	0.365	10.020	0.365	10.020
12	12.750	36.00	24.38	24.00	18.38	0.375	12.000	0.406	11.938
14	14.000	42.00	28.00	28.00	21.00	0.375	13.250	0.438	13.124
16	16.000	48.00	32.00	32.00	24.00	0.375	15.250	0.500	15.000
18	18.000	54.00	36.00	36.00	27.00	0.375	17.250	0.562	16.876
20	20.000	60.00	40.00	40.00	30.00	0.375	19.250	0.594	18.812
22	22.000	66.00	44.00	44.00	33.00	0.375	21.250	0.594	20.812
24	24.000	72.00	48.00	48.00	36.00	0.375	23.250	0.688	22.624

Nominal Pipe Size	Outside Diameter OD	Long		Short		Sch 20		Sch 30	
		Center to Center O	Back to Face K	Center to Center O	Back to Face K	T	ID	T	ID
4	4.500	12.00	8.25	8.00	6.25	-	-	-	-
5	5.563	15.00	10.31	10.00	7.75	-	-	-	-
6	6.625	18.00	12.31	12.00	9.31	-	-	-	-
8	8.625	24.00	16.31	16.00	12.31	0.250	8.125	0.277	8.071
10	10.750	30.00	20.38	20.00	15.38	0.250	10.250	0.307	10.136
12	12.750	36.00	24.38	24.00	18.38	0.250	12.250	0.330	12.090
14	14.000	42.00	28.00	28.00	21.00	0.312	13.376	0.375	13.250
16	16.000	48.00	32.00	32.00	24.00	0.312	15.376	0.375	15.250
18	18.000	54.00	36.00	36.00	27.00	0.312	17.376	0.438	17.124
20	20.000	60.00	40.00	40.00	30.00	0.375	19.250	0.500	19.000
22	22.000	66.00	44.00	44.00	33.00	0.375	21.250	0.500	21.000
24	24.000	72.00	48.00	48.00	36.00	0.375	22.250	0.562	22.876



180° Elbow

Unit : inch

X-S		Sch80		Sch160		XX-S		Nominal Pipe Size
T	I.D	T	I.D	T	I.D	T	I.D	
0.147	0.546	0.147	0.546	0.188	0.464	0.294	0.252	1/2
0.154	0.742	0.154	0.742	0.218	0.612	0.308	0.434	3/4
0.179	0.957	0.179	0.957	0.250	0.815	0.358	0.599	1
0.191	1.278	0.191	1.278	0.250	1.160	0.382	0.896	1 1/4
0.200	1.500	0.200	1.500	0.281	1.338	0.400	1.100	1 1/2
0.218	1.939	0.218	1.939	0.344	1.687	0.436	1.503	2
0.276	2.323	0.276	2.323	0.375	2.125	0.552	1.771	2 1/2
0.300	2.900	0.300	2.900	0.438	2.624	0.600	2.300	3
0.318	3.364	0.318	3.364	-	-	-	-	3 1/2
0.337	3.826	0.337	3.826	0.531	3.348	0.674	3.152	4
0.375	4.813	0.375	4.813	0.625	4.313	0.750	4.063	5
0.432	5.761	0.432	5.761	0.719	5.187	0.864	4.897	6
0.500	7.625	0.500	7.625	0.906	6.813	0.875	6.875	8
0.500	9.750	0.594	9.562	1.125	8.500	1.000	8.750	10
0.500	11.750	0.688	11.374	1.312	10.126	1.000	10.750	12
0.500	13.000	0.750	12.500	1.406	11.188	-	-	14
0.500	15.000	0.844	14.312	1.594	12.812	-	-	16
0.500	17.000	0.938	16.124	1.781	14.438	-	-	18
0.500	19.000	1.031	17.938	1.968	16.062	-	-	20
0.500	21.000	1.125	19.750	2.125	17.750	-	-	22
0.500	23.000	1.219	21.562	2.344	19.312	-	-	24

Sch 60		Sch100		Sch120		Sch140		Nominal Pipe Size
T	I.D	T	I.D	T	I.D	T	I.D	
-	-	-	-	0.438	3.624	-	-	4
-	-	-	-	0.500	4.563	-	-	5
-	-	-	-	0.562	5.501	-	-	6
0.406	7.813	0.594	7.437	0.719	7.187	0.812	7.001	8
0.500	9.750	0.719	9.312	0.844	9.062	1.000	8.750	10
0.562	11.626	0.844	11.062	1.000	10.750	1.125	10.500	12
0.594	12.812	0.936	12.128	1.094	11.812	1.250	11.500	14
0.656	14.688	1.031	13.938	1.219	13.562	1.438	13.124	16
0.750	16.500	1.156	15.688	1.375	15.250	1.562	14.876	18
0.812	18.376	1.281	17.438	1.500	17.000	1.750	16.500	20
0.875	20.250	1.375	19.250	1.625	18.750	1.875	18.250	22
0.969	22.062	1.531	20.938	1.812	20.376	2.062	19.876	24