

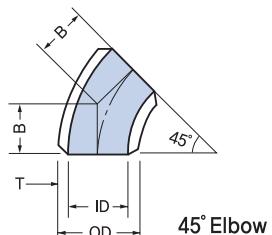
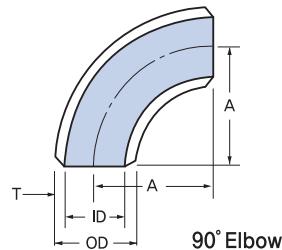
STEEL BUTT-WELDING PIPE FITTINGS

KS | JIS

- **90° Elbow (Long, Short)**

- **45° Elbow (Long)**

SPP/SGP, 7.9, STD, X-S



KS B 1522, JIS B 2311

Unit : mm

Nominal Pipe Size	Outside Diameter OD	Inside Diameter ID	Wall Thickness T	Long		Short
				90°	45°	90°
				A	B	A
15	21.7	16.1	2.8	38.1	15.8	-
20	27.2	21.6	2.8	38.1	15.8	-
25	34.0	27.6	3.2	38.1	15.8	25.4
32	42.7	35.7	3.5	47.6	19.7	31.8
40	48.6	41.6	3.5	57.2	23.7	38.1
50	60.5	52.9	3.8	76.2	31.6	50.8
65	76.3	67.9	4.2	95.3	39.5	63.5
80	89.1	80.7	4.2	114.3	47.3	76.2
90	101.6	93.2	4.2	133.4	55.3	88.9
100	114.3	105.3	4.5	152.4	63.1	101.6
125	139.8	130.8	4.5	190.5	78.9	127.0
150	165.2	155.2	5.0	228.6	94.7	152.4
200	216.3	204.7	5.8	304.8	126.3	203.2
250	267.4	254.2	6.6	381.0	157.8	254.0
300	318.5	304.7	6.9	457.2	189.4	304.8
350	355.6	339.8	7.9	533.4	220.9	355.6
400	406.4	390.6	7.9	609.6	252.5	406.4
450	457.2	441.4	7.9	685.8	284.1	457.2
500	508.0	492.2	7.9	762.0	315.6	508.0
550	558.8	543.0	7.9	838.2	347.2	558.8
600	609.6	593.8	7.9	914.4	378.7	609.6
650	660.4	644.6	7.9	990.6	410.3	660.4
700	711.2	695.4	7.9	1066.8	441.9	711.2
750	762.0	746.2	7.9	1143.0	473.4	762.0
800	812.8	797.0	7.9	1219.2	505.0	812.8
850	863.6	847.8	7.9	1295.4	536.6	863.6
900	914.4	898.6	7.9	1371.6	568.1	914.4
950	965.2	949.4	7.9	1447.8	599.7	965.2
1000	1016.0	1000.2	7.9	1524.0	631.2	1016.0
1050	1066.8	1051.0	7.9	1600.2	662.8	1066.8
1100	1117.6	1101.8	7.9	1676.4	694.4	1117.6
1150	1168.4	1152.6	7.9	1752.6	725.9	1168.4
1200	1219.2	1203.4	7.9	1828.8	757.5	1219.2

KS B 1543, JIS B 2311/3

Unit : mm

Nominal Pipe Size	Outside Diameter OD	Wall Thickness T						Center to Center		
		7.9T		STD		X-S		Long	Short	
		ID	T	ID	T	ID	T	A(90°)	B(45°)	A(90°)
350	355.6	339.8	7.9	336.6	9.5	330.2	12.7	533.4	220.9	355.6
400	406.4	390.6	7.9	387.4	9.5	381.0	12.7	609.6	252.5	406.4
450	457.2	441.4	7.9	438.2	9.5	431.8	12.7	685.8	284.1	457.2
500	508.0	492.2	7.9	489.0	9.5	482.6	12.7	762.0	315.6	508.0
550	558.8	543.0	7.9	539.8	9.5	533.4	12.7	838.2	347.2	558.8
600	609.6	593.8	7.9	590.6	9.5	584.2	12.7	914.4	378.7	609.6
650	660.4	644.6	7.9	641.4	9.5	635.0	12.7	990.6	410.3	660.4
700	711.2	695.4	7.9	692.2	9.5	685.8	12.7	1066.8	441.9	711.2
750	762.0	746.2	7.9	743.0	9.5	736.6	12.7	1143.0	473.4	762.0
800	812.8	797.0	7.9	793.8	9.5	787.4	12.7	1219.2	505.0	812.8
850	863.6	847.8	7.9	844.6	9.5	838.2	12.7	1295.4	536.6	863.6
900	914.4	898.6	7.9	895.4	9.5	889.0	12.7	1371.6	568.1	914.4
950	965.2	949.4	7.9	946.2	9.5	939.8	12.7	1447.8	599.7	965.2
1000	1016.0	1000.2	7.9	997.0	9.5	990.6	12.7	1524.0	631.2	1016.0
1050	1066.8	1051.0	7.9	1047.8	9.5	1041.4	12.7	1600.2	662.8	1066.8
1100	1117.6	1101.8	7.9	1098.6	9.5	1092.2	12.7	1676.4	694.4	1117.6
1150	1168.4	1152.6	7.9	1149.4	9.5	1143.0	12.7	1752.6	725.9	1168.4
1200	1219.2	1203.4	7.9	1200.2	9.5	1193.8	12.7	1828.8	757.5	1219.2