

JIS/KS BUTT-WELDING FITTINGS CARBON STEEL

▪ JIS B2311

SCH40/80/120/160



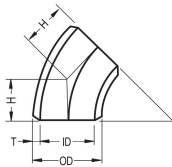
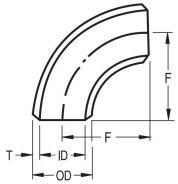
All products backed by Metleader warranty

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Elbow 90° (long,short)

Elbow 45° (long)

unit:mm

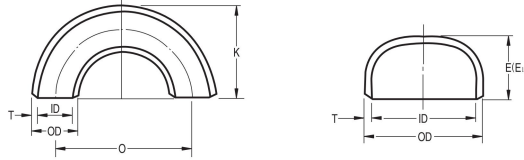


Nominal Pipe Size	Outside Diameter O.D	Center to End			SCH40	SCH80	SCH120	SCH160
		Long		Short	T	T	T	T
		F(90°)	H(45°)	F(90°)				
15	21.7	38.1	15.8	-	2.8	3.7	-	4.7
20	27.2	38.1	15.8	-	2.9	3.9	-	5.5
25	34.0	38.1	15.8	25.4	3.4	4.5	-	6.4
32	42.7	47.6	19.7	31.8	3.6	4.9	-	6.4
40	48.6	57.2	23.7	38.1	3.7	5.1	-	7.1
50	60.5	76.2	31.6	50.8	3.9	5.5	-	8.7
65	76.3	95.3	39.5	63.5	5.2	7.0	-	9.5
80	89.1	114.3	47.3	76.2	5.5	7.6	-	11.1
90	101.6	133.4	55.3	88.9	5.7	8.1	-	12.7
100	114.3	152.4	63.1	101.6	6.0	8.6	11.1	13.5
125	139.8	190.0	78.9	127.0	6.6	9.5	12.7	15.9
150	165.2	228.6	94.7	152.4	7.1	11.0	14.3	18.2
200	216.3	304.8	126.3	203.2	8.2	12.7	18.2	23.0
250	267.4	381.0	157.8	254.0	9.3	15.1	21.4	28.6
300	318.5	457.2	189.4	304.8	10.3	17.4	25.4	33.3
350	355.6	533.4	220.9	355.6	11.1	19.0	27.8	35.7
400	406.4	609.6	252.5	406.4	12.7	21.4	30.9	40.5
450	457.2	685.8	284.1	457.2	14.3	23.8	34.9	45.2
500	508.0	762.0	315.6	508.0	15.1	26.2	38.1	50.0

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Elbow 180° (long,short)

Cap

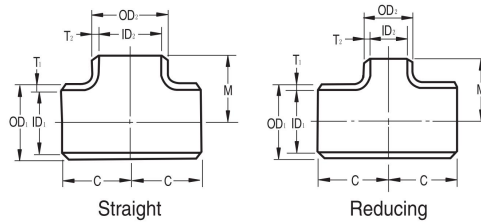


unit:mm

Nominal Pipe Size	Outside Diameter O.D	Cap			180° Elbow				Wall Thickness T			
		E	E1	Limited Wall Thickness for E	Long		Short		SCH40	SCH80	SCH120	SCH160
					O	K	O	K				
15	21.7	25.4	-	-	76.2	49.0	-	-	2.8	3.7	-	4.7
20	27.2	25.4	-	-	76.2	51.7	-	-	2.9	3.9	-	5.5
25	34.0	38.1	-	-	76.2	55.1	50.8	42.4	3.4	4.5	-	6.4
32	42.7	38.1	-	-	95.2	69.0	63.6	53.2	3.6	4.9	-	6.4
40	48.6	38.1	-	-	114.4	81.5	76.2	62.4	3.7	5.1	-	7.1
50	60.5	38.1	44.5	5.5	152.4	106.5	101.6	81.1	3.9	5.5	-	8.7
65	76.3	38.1	50.8	7.0	190.6	133.5	127.0	101.7	5.2	7.0	-	9.5
80	89.1	50.8	63.5	7.6	228.6	158.9	152.4	120.8	5.5	7.6	-	11.1
90	101.6	63.5	76.2	8.1	266.8	184.2	177.8	139.7	5.7	8.1	-	12.7
100	114.3	63.5	76.2	8.6	304.8	209.6	203.2	158.8	6.0	8.6	11.1	13.5
125	139.8	76.2	88.9	9.5	381.0	260.4	254.0	196.9	6.6	9.5	12.7	15.9
150	165.2	88.9	101.6	11.0	457.2	311.2	304.8	235.0	7.1	11.0	14.3	18.2
200	216.3	101.6	127.0	12.7	609.6	413.0	406.4	311.4	8.2	12.7	18.2	23.0
250	267.4	127.0	152.4	12.7	762.0	514.7	508.0	387.7	9.3	15.1	21.4	28.6
300	318.5	152.4	177.8	12.7	914.4	616.5	609.6	464.1	10.3	17.4	25.4	33.3
350	355.6	165.1	190.5	12.7	1066.8	711.2	711.2	533.4	11.1	19.0	27.8	35.7
400	406.4	177.8	203.2	12.7	1219.2	812.8	812.8	609.6	12.7	21.4	30.9	40.5
450	457.2	203.2	228.6	12.7	1371.6	914.4	914.4	685.8	14.3	23.8	34.9	45.2
500	508.0	228.6	254.0	12.7	1524.0	1016.0	1016.0	762.0	15.1	26.2	38.1	50.0

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Tee-01

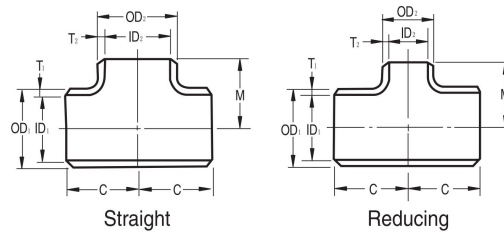


unit:mm

Nominal Pipe Size	Outside Diameter		Center to End		Wall Thickness T							
					SCH40		SCH80		SCH120		SCH160	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2	T1	T2
15	21.7	21.7	25.4	25.4	2.8	2.8	3.7	3.7	-	-	-	-
20	27.2	27.2	28.6	28.6	2.9	2.9	3.9	3.9	-	-	-	-
20X20X15	27.2	27.2	28.6	28.6	2.9	2.8	3.9	3.7	-	-	-	-
25	34.0	34.0	38.1	38.1	3.4	3.4	4.5	4.5	-	-	-	-
25X25X20	34.0	27.2	38.1	38.1	3.4	2.9	4.5	3.9	-	-	-	-
25X25X15	34.0	21.7	38.1	38.1	3.4	2.8	4.5	3.7	-	-	-	-
32	42.7	42.7	47.6	47.6	3.6	3.6	4.9	4.9	-	-	-	-
32X32X25	42.7	34.0	47.6	47.6	3.6	3.4	4.9	4.5	-	-	-	-
32X32X20	42.7	27.2	47.6	47.6	3.6	2.9	4.9	3.9	-	-	-	-
40	48.6	48.6	57.2	57.2	3.7	3.7	5.1	5.1	-	-	7.1	7.1
40X40X32	48.6	42.7	57.2	57.2	3.7	3.6	5.1	4.9	-	-	-	-
40X40X25	48.6	34.0	57.2	57.2	3.7	3.4	5.1	4.5	-	-	-	-
40X40X20	48.6	27.2	57.2	57.2	3.7	2.9	5.1	3.9	-	-	-	-
50	60.5	60.5	63.5	63.5	3.9	3.9	5.5	5.5	-	-	8.7	8.7
50X50X40	60.5	48.6	63.5	60.3	3.9	3.7	5.5	5.1	-	-	8.7	7.1
50X50X32	60.5	42.7	63.5	57.2	3.9	3.6	5.5	4.9	-	-	-	-
50X50X25	60.5	34.0	63.5	50.8	3.9	3.4	5.5	4.5	-	-	-	-
65	76.3	76.3	76.2	76.2	5.2	5.2	7.0	7.0	-	-	9.5	9.5
65X65X50	76.3	60.5	76.2	69.9	5.2	3.9	7.0	5.5	-	-	9.5	8.7
65X65X40	76.3	48.6	76.2	66.7	5.2	3.7	7.0	5.1	-	-	9.5	7.1
65X65X32	76.3	42.7	76.2	63.5	5.2	3.6	7.0	4.9	-	-	-	-
80	89.1	89.1	85.7	85.7	5.5	5.5	7.6	7.6	-	-	11.1	11.1
80X80X65	89.1	76.3	85.7	82.6	5.5	5.2	7.6	7.0	-	-	11.1	9.5
80X80X50	89.1	60.5	85.7	76.2	5.5	3.9	7.6	5.5	-	-	11.1	8.7
80X80X40	89.1	48.6	85.7	73.0	5.5	3.7	7.6	5.1	-	-	11.1	7.1

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Tee-02

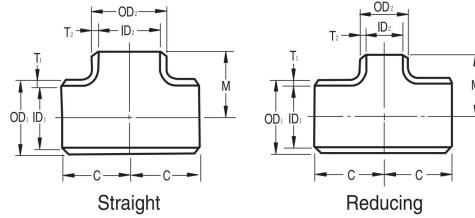


unit:mm

Nominal Pipe Size	Outside Diameter		Center to End		Wall Thickness T							
					SCH40		SCH80		SCH120		SCH160	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2	T1	T2
90	101.6	101.6	95.3	95.3	5.7	5.7	8.1	8.1	-	-	12.7	12.7
90X90X80	101.6	89.1	95.3	92.1	5.7	5.5	8.1	7.6	-	-	12.7	11.1
90X90X65	101.6	76.3	95.3	88.9	5.7	5.2	8.1	7.0	-	-	12.7	9.5
90X90X50	101.6	60.5	95.3	82.6	5.7	3.9	8.1	5.5	-	-	12.7	8.7
90X90X40	101.6	48.6	95.3	79.4	5.7	3.7	8.1	5.1	-	-	12.7	7.1
100	114.3	114.3	104.8	104.8	6.0	6	8.6	8.6	-	-	13.5	13.5
100X100X90	114.3	101.6	104.8	101.6	6.0	5.7	8.6	8.1	-	-	13.5	12.7
100X100X80	114.3	89.1	104.8	98.4	6.0	5.5	8.6	7.6	-	-	13.5	11.1
100X100X65	114.3	76.3	104.8	95.3	6.0	5.2	8.6	7.0	-	-	13.5	9.5
100X100X50	114.3	60.5	104.8	88.9	6.0	3.9	8.6	5.5	-	-	13.5	8.7
125	139.8	139.8	123.8	123.8	6.6	6.6	9.5	9.5	12.7	12.7	15.9	15.9
125X125X100	139.8	114.3	123.8	117.5	6.6	6	9.5	8.6	12.7	11.1	15.9	13.5
125X125X90	139.8	101.6	123.8	114.3	6.6	5.7	9.5	8.1	-	-	15.9	12.7
125X125X80	139.8	89.1	123.8	111.1	6.6	5.5	9.5	7.6	-	-	15.9	11.1
125X125X65	139.8	76.3	123.8	108.0	6.6	5.2	9.5	7.0			15.9	9.5
150	165.2	165.2	142.9	142.9	7.1	7.1	11.0	11.0	14.3	14.3	18.2	18.2
150X150X125	165.2	139.8	142.9	136.5	7.1	6.6	11.0	9.5	14.3	12.7	18.2	15.9
150X150X100	165.2	114.3	142.9	130.2	7.1	6	11.0	8.6	14.3	11.1	18.2	13.5
150X150X90	165.2	101.6	142.9	127.0	7.1	5.7	11.0	8.1	-	-	18.2	12.7
150X150X80	165.2	89.1	142.9	123.8	7.1	5.5	11.0	7.6	-	-	18.2	11.1
200	216.3	216.3	177.8	177.8	8.2	8.2	12.7	12.7	18.2	18.2	23.0	23.0
200X200X150	216.3	165.2	177.8	168.3	8.2	7.1	12.7	11.0	18.2	14.3	23.0	18.2
200X200X125	216.3	139.8	177.8	161.9	8.2	6.6	12.7	9.5	18.2	12.7	23.0	15.9
200X200X100	216.3	114.3	177.8	155.6	8.2	6	12.7	8.6	18.2	11.1	23.0	13.5

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Tee-03

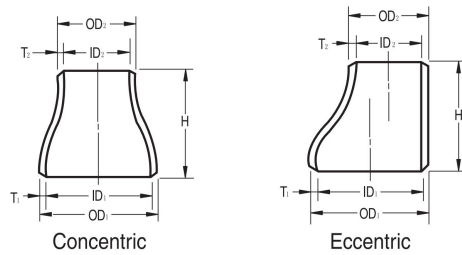


unit:mm

Nominal Pipe Size	Outside Diameter		Center to End		Wall Thickness T							
					SCH40		SCH80		SCH120		SCH160	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2	T1	T2
250	267.4	267.4	215.9	215.9	9.3	9.3	15.1	15.1	21.4	21.4	28.6	28.6
250X250X200	267.4	216.3	215.9	203.2	9.3	8.2	15.1	12.7	21.4	18.2	28.6	23.0
250X250X150	267.4	165.2	215.9	193.7	9.3	7.1	15.1	11.0	21.4	14.3	28.6	18.2
250X250X125	267.4	139.8	215.9	190.5	9.3	6.6	15.1	9.5	21.4	12.7	28.6	15.9
300	318.5	318.5	254.0	254.0	10.3	10.3	17.4	17.4	25.4	25.4	33.3	33.3
300X300X250	318.5	267.4	254.0	241.3	10.3	9.3	17.4	15.1	25.4	21.4	33.3	28.6
300X300X200	318.5	216.3	254.0	228.6	10.3	8.2	17.4	12.7	25.4	18.2	33.3	23.0
300X300X150	318.5	165.2	254.0	219.1	10.3	7.1	17.4	11.0	25.4	14.3	33.3	18.2
350	355.6	355.6	279.4	279.4	11.1	11.1	19.0	19.0	27.8	27.8	35.7	35.7
350X350X300	355.6	318.5	279.4	269.9	11.1	10.3	19.0	17.4	27.8	25.4	35.7	33.3
350X350X250	355.6	267.4	279.4	257.2	11.1	9.3	19.0	15.1	27.8	21.4	35.7	28.6
350X350X200	355.6	216.3	279.4	247.7	11.1	8.2	19.0	12.7	27.8	18.2	35.7	23.0
400	406.4	406.4	304.8	304.8	12.7	12.7	21.4	21.4	30.9	30.9	40.5	40.5
400X400X350	406.4	355.6	304.8	304.8	12.7	11.1	21.4	19.0	30.9	27.8	40.5	35.7
400X400X300	406.4	318.5	304.8	295.3	12.7	10.3	21.4	17.4	30.9	25.4	40.5	33.3
400X400X250	406.4	267.4	304.8	282.6	12.7	9.3	21.4	15.1	30.9	21.4	40.5	28.6
450	457.2	457.2	342.9	342.9	14.3	14.3	23.8	23.8	-	-	-	-
450X450X400	457.2	406.4	342.9	330.2	14.3	12.7	23.8	21.4	-	-	-	-
450X450X350	457.2	355.6	342.9	330.2	14.3	11.1	23.8	19.0	-	-	-	-
450X450X300	457.2	318.5	342.9	320.7	14.3	10.3	23.8	17.4	-	-	-	-
500	508.0	508.0	381.0	381.0	15.1	15.1	26.2	26.2	-	-	-	-
500X500X450	508.0	457.2	381.0	368.0	15.1	14.3	26.2	23.8	-	-	-	-
500X500X400	508.0	406.4	381.0	355.6	15.1	12.7	26.2	21.4	-	-	-	-
500X500X350	508.0	355.6	381.0	355.6	15.1	11.1	26.2	19.0	-	-	-	-

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Reducer-01

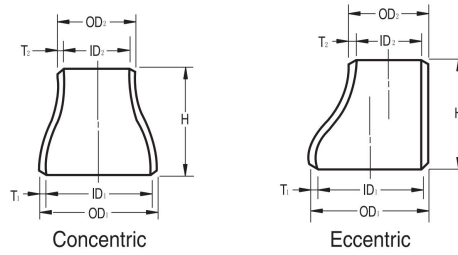


unit:mm

Nominal Pipe Size	Outside Diameter		End to End	Wall Thickness T							
	OD1	OD2	H	SCH40		SCH80		SCH120		SCH160	
				T1	T2	T1	T2	T1	T2	T1	T2
20 X 15	27.2	21.7	38.1	2.9	2.8	3.9	3.7	-	-	-	-
25 X 20	34.0	27.2	50.8	3.4	2.9	4.5	3.9	-	-	-	-
25 X 15	34.0	21.7	50.8	3.4	2.8	4.5	3.7	-	-	-	-
32 X 25	42.7	34.0	50.8	3.6	3.4	4.9	4.5	-	-	-	-
32 X 20	42.7	27.2	50.8	3.6	2.9	4.9	3.9	-	-	-	-
32 X 15	42.7	21.7	50.8	3.6	2.8	4.9	3.7	-	-	-	-
40 X 32	48.6	42.7	63.5	3.7	3.6	5.1	4.9	-	-	-	-
40 X 25	48.6	34.0	63.5	3.7	3.7	5.1	4.5	-	-	-	-
40 X 20	48.6	27.2	63.5	3.7	2.9	5.1	3.9	-	-	-	-
50 X 40	60.5	48.6	76.2	3.9	3.7	5.5	5.1	-	-	8.7	7.1
50 X 32	60.5	42.7	76.2	3.9	3.6	5.5	4.9	-	-	-	-
50 X 25	60.5	34.0	76.2	3.9	3.4	5.5	4.5	-	-	-	-
50 X 20	60.5	27.2	76.2	3.9	2.9	5.5	3.9	-	-	-	-
65 X 50	76.3	60.5	88.9	5.2	3.9	7.0	5.5	-	-	9.5	8.7
65 X 40	76.3	48.6	88.9	5.2	3.7	7.0	5.1	-	-	9.5	1.7
65 X 32	76.3	42.7	88.9	5.2	3.6	7.0	4.9	-	-	-	-
65 X 25	76.3	34.0	88.9	5.2	3.4	7.0	4.5	-	-	-	-
80 X 65	89.1	76.3	88.9	5.5	5.2	7.6	7.0	-	-	11.1	9.5
80 X 50	89.1	60.5	88.9	5.5	3.9	7.6	5.5	-	-	11.1	8.7
80 X 40	89.1	48.6	88.9	5.5	3.7	7.6	5.1	-	-	11.1	7.1
80 X 32	89.1	42.7	88.9	5.5	3.6	7.6	4.9	-	-	-	-
90 X 80	101.6	89.1	101.6	5.7	5.5	8.1	7.6	-	-	12.7	11.1
90 X 65	101.6	76.3	101.6	5.7	5.2	8.1	7.0	-	-	12.7	9.5
90 X 50	101.6	60.5	101.6	5.7	3.9	8.1	5.5	-	-	12.7	8.7
90 X 40	101.6	48.6	101.6	5.7	3.7	8.1	5.1	-	-	12.7	7.1

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Reducer-02

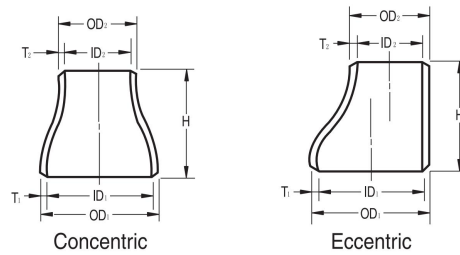


unit:mm

Nominal Pipe Size	Outside Diameter		End to End H	Wall Thickness T							
	OD1	OD2		SCH40		SCH80		SCH120		SCH160	
			T1	T2	T1	T2	T1	T2	T1	T2	
100 X 90	114.3	101.6	101.6	6.0	5.7	8.6	8.1	-	-	13.5	12.7
100 X 80	114.3	89.1	101.6	6.0	5.5	8.6	7.6	-	-	13.5	11.1
100 X 65	114.3	76.3	101.6	6.0	5.2	8.6	7.0	-	-	13.5	9.5
100 X 50	114.3	60.5	101.6	6.0	3.9	8.6	5.5	-	-	13.5	8.7
100 X 40	114.3	48.6	101.6	6.0	3.7	8.6	5.1	-	-	13.5	7.1
125 X 100	139.8	114.3	127.0	6.6	6.0	9.5	8.6	12.7	11.1	15.9	13.5
125 X 90	139.8	101.6	127.0	6.6	5.7	9.5	8.1	-	-	15.9	12.7
125 X 80	139.8	89.1	127.0	6.6	5.5	9.5	7.6	-	-	15.9	11.1
125 X 65	139.8	76.3	127.0	6.6	5.2	9.5	7.0	-	-	15.9	9.5
150 X 125	165.2	139.8	139.7	7.1	6.6	11.0	9.5	14.3	12.7	18.2	15.9
150 X 100	165.2	114.3	139.7	7.1	6.0	11.0	8.6	14.3	11.1	18.2	13.5
150 X 90	165.2	101.6	139.7	7.1	5.7	11.0	8.1	-	-	18.2	12.7
150 X 80	165.2	89.1	139.7	7.1	5.5	11.0	7.6	-	-	18.2	11.1
150 X 65	165.2	76.3	139.7	7.1	5.2	11.0	7.0	-	-	18.2	9.5
200 X 150	216.3	165.2	152.4	8.2	7.1	12.7	11.0	18.2	14.3	23.0	18.2
200 X 125	216.3	139.8	152.4	8.2	6.6	12.7	9.5	18.2	12.7	23.0	15.9
200 X 100	216.3	114.3	152.4	8.2	6.0	12.7	8.6	18.2	11.1	23.0	13.5
200 X 90	216.3	101.6	152.4	8.2	5.7	12.7	8.1	-	-	23.0	12.7
250 X 200	267.4	216.3	177.8	9.3	8.2	15.1	12.7	21.4	18.2	28.6	23.0
250 X 150	267.4	165.2	177.8	9.3	7.1	15.1	11.0	21.4	14.3	28.6	18.2
250 X 125	267.4	139.8	177.8	9.3	6.6	15.1	9.5	21.4	12.7	28.6	15.9
250 X 100	267.4	114.6	177.8	9.3	6.0	15.1	8.6	-	-	28.6	13.5
300 X 250	318.5	267.4	203.2	10.3	9.3	17.4	15.1	25.4	21.4	33.3	28.6
300 X 200	318.5	216.3	203.2	10.3	8.2	17.4	12.7	25.4	18.2	33.3	23.0
300 X 150	318.5	165.2	203.2	10.3	7.1	17.4	11.0	25.4	14.3	33.3	18.2
300 X 125	318.5	139.8	203.2	10.3	6.6	17.4	9.5	25.4	12.7	33.3	15.9

JIS/KS BUTT-WELDING CARBON STEEL FITTINGS

Reducer-03



unit:mm

Nominal Pipe Size	Outside Diameter		End to End	Wall Thickness T							
	OD1	OD2	H	SCH40		SCH80		SCH120		SCH160	
				T1	T2	T1	T2	T1	T2	T1	T2
350 X 300	355.6	318.5	330.2	11.1	10.3	19.0	17.4	27.8	25.4	35.7	33.3
350 X 250	355.6	267.4	330.2	11.1	9.3	19.0	15.1	27.8	21.4	35.7	28.6
350 X 200	355.6	216.3	330.2	11.1	8.2	19.0	12.7	27.8	18.2	35.7	23.0
400 X 350	355.6	355.6	355.6	12.7	11.1	21.4	19.0	30.9	27.8	40.5	35.7
400 X 300	406.4	318.5	355.6	12.7	10.3	21.4	17.4	30.9	25.4	40.5	33.3
400 X 250	406.4	267.4	355.6	12.7	9.3	21.4	15.1	30.9	21.4	40.5	28.6
450 X 400	457.2	406.4	381.0	14.3	12.7	23.8	21.4	34.9	30.9	45.2	40.5
450 X 350	457.2	355.6	381.0	14.3	11.1	23.8	19.0	34.9	27.8	45.2	35.7
450 X 300	457.2	318.5	381.0	14.3	10.3	23.8	17.4	34.9	25.4	45.2	33.3
500 X 450	508.0	457.2	508.0	15.1	14.3	26.2	23.8	38.1	34.9	50.0	45.2
500 X 400	508.0	406.4	508.0	15.1	12.7	26.2	21.4	38.1	30.9	50.0	40.5
500 X 350	508.0	355.6	508.0	15.1	11.1	26.2	19.0	38.1	27.8	50.0	35.7

JIS/KS BUTT-WELDING FITTINGS STAINLESS STEEL

▪ JIS B2311

SCH5S/10S/20S



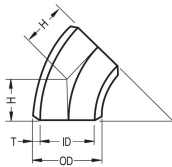
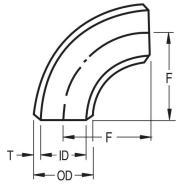
All products backed by Metleader warranty

JIS/KS BUTT-WELDING STAINLESS STEEL FITTINGS

Elbow 90° (long,short)

Elbow 45° (long)

unit:mm

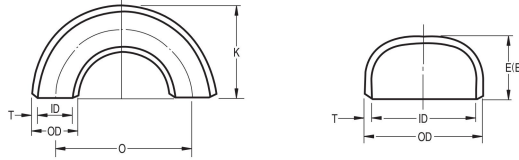


Nominal Pipe Size	Outside Diameter O.D	Center to End			Wall Thickness		
		Long		Short	SCH5S	SCH10S	SCH20S
		F(90 °)	H(45 °)	F(90 °)	T	T	T
15	21.7	38.1	15.8	-	1.65	2.1	2.5
20	27.2	38.1	15.8	-	1.65	2.1	2.5
25	34.0	38.1	15.8	25.4	1.65	2.8	3.0
32	42.7	47.6	19.7	31.8	1.65	2.8	3.0
40	48.6	57.2	23.7	38.1	1.65	2.8	3.0
50	60.5	76.2	31.6	50.8	1.65	2.8	3.5
65	76.3	95.3	39.5	63.5	2.10	3.0	3.5
80	89.1	114.3	47.3	76.2	2.10	3.0	4.0
90	101.6	133.4	55.3	88.9	2.10	3.0	4.0
100	114.3	152.4	63.1	101.6	2.10	3.0	4.0
125	139.8	190.0	78.9	127.0	2.80	3.4	5.0
150	165.2	228.6	94.7	152.4	2.80	3.4	5.0
200	216.3	304.8	126.3	203.2	2.80	4.0	6.5
250	267.4	381.0	157.8	254.0	3.40	4.0	6.5
300	318.5	457.2	189.4	304.8	4.00	4.5	6.5
350	355.6	533.4	220.9	355.6	-	-	-
400	406.4	609.6	252.5	406.4	-	-	-
450	457.2	685.8	284.1	457.2	-	-	-
500	508.0	762.0	315.6	508.0	-	-	-
550	558.8	838.2	347.2	558.8	-	-	-
600	609.6	914.4	378.7	609.6	-	-	-
750	762.0	1143.0	473.4	762.0	-	-	-

JIS/KS BUTT-WELDING STAINLESS STEEL FITTINGS

Elbow 180° (long,short)

Cap

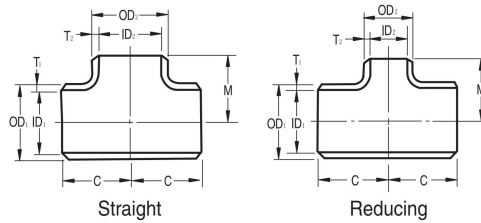


unit:mm

Nominal Pipe Size	Outside Diameter O.D	Cap			180° Elbow				Wall Thickness T		
		E	E1	Limited Wall Thickness for E	Long		Short		SCH5S	SCH10S	SCH20S
					O	K	O	K			
15	21.7	25.4	-	-	76.2	49.0	-	-	1.65	2.1	2.5
20	27.2	25.4	-	-	76.2	51.7	-	-	1.65	2.1	2.5
25	34.0	38.1	-	-	76.2	55.1	50.8	42.4	1.65	2.8	3.0
32	42.7	38.1	-	-	95.2	69.0	63.6	53.2	1.65	2.8	3.0
40	48.6	38.1	-	-	114.4	81.5	76.2	62.4	1.65	2.8	3.0
50	60.5	38.1	44.5	5.5	152.4	106.5	101.6	81.1	1.65	2.8	3.5
65	76.3	38.1	50.8	7.0	190.6	133.5	127.0	101.7	2.10	3.0	3.5
80	89.1	50.8	63.5	7.6	228.6	158.9	152.4	120.8	2.10	3.0	4.0
90	101.6	63.5	76.2	8.1	266.8	184.2	177.8	139.7	2.10	3.0	4.0
100	114.3	63.5	76.2	8.6	304.8	209.6	203.2	158.8	2.10	3.0	4.0
125	139.8	76.2	88.9	9.5	381.0	260.4	254.0	196.9	2.80	3.4	5.0
150	165.2	88.9	101.6	11.0	457.2	311.2	304.8	235.0	2.80	3.4	5.0
200	216.3	101.6	127.0	12.7	609.6	413.0	406.4	311.4	2.80	4.0	6.5
250	267.4	127.0	152.4	12.7	762.0	514.7	508.0	387.7	3.40	4.0	6.5
300	318.5	152.4	177.8	12.7	914.4	616.5	609.6	464.1	4.00	4.5	6.5
350	355.6	165.1	190.5	12.7	1066.8	711.2	711.2	533.4	4.00	5.0	8.0
400	406.4	177.8	203.2	12.7	1219.2	812.8	812.8	609.6	4.50	5.0	8.0
450	457.2	203.2	228.6	12.7	1371.6	914.4	914.4	685.8	4.50	5.0	8.0
500	508.0	228.6	254.0	12.7	1524.0	1016.0	1016.0	762.0	5.00	5.5	9.5

JIS/KS BUTT-WELDING STAINLESS STEEL FITTINGS

Tee-01

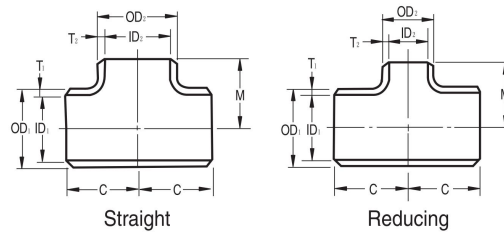


unit:mm

Nominal Pipe Size	Outside Diameter		Center to End		Wall Thickness T					
					SCH5S		SCH10S		SCH20S	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2
15	21.7	21.7	25.4	25.4	1.65	1.65	2.1	2.1	2.5	2.5
20	27.2	27.2	28.6	28.6	1.65	1.65	2.1	2.1	2.5	2.5
25	34.0	34.0	38.1	38.1	1.65	1.65	2.8	2.8	3.0	3.0
32	42.7	42.7	47.6	47.6	1.65	1.65	2.8	2.8	3.0	3.0
32X32X25	42.7	34.0	47.6	47.6	1.65	1.65	2.8	2.8	3.0	3.0
40	48.6	48.6	57.2	57.2	1.65	1.65	2.8	2.8	3.0	3.0
40X40X32	48.6	42.7	57.2	57.2	1.65	1.65	2.8	2.8	3.0	3.0
40X40X25	48.6	34.0	57.2	57.2	1.65	1.65	2.8	2.8	3.0	3.0
50	60.5	60.5	63.5	63.5	1.65	1.65	2.8	2.8	3.5	3.5
50X50X40	60.5	48.6	63.5	60.3	1.65	1.65	2.8	2.8	3.5	3.0
50X50X32	60.5	42.7	63.5	57.2	1.65	1.65	2.8	2.8	3.5	3.0
65	76.3	76.3	76.2	76.2	2.10	2.10	3.0	3.0	3.5	3.5
65X65X50	76.3	60.5	76.2	69.9	2.10	2.10	3.0	2.8	3.5	3.5
65X65X40	76.3	48.6	76.2	66.7	2.10	2.10	3.0	2.8	3.5	3.0
80	89.1	89.1	85.7	85.7	2.10	2.10	3.0	3.0	4.0	4.0
80X80X65	89.1	76.3	85.7	82.6	2.10	2.10	3.0	3.0	4.0	3.5
80X80X50	89.1	60.5	85.7	76.2	2.10	2.10	3.0	2.8	4.0	3.5
90	101.6	101.6	95.3	95.3	2.10	2.10	3.0	3.0	4.0	4.0
90X90X80	101.6	89.1	95.3	92.1	2.10	2.10	3.0	3.0	4.0	4.0
90X90X65	101.6	76.3	95.3	88.9	2.10	2.10	3.0	3.0	4.0	3.5
100	114.3	114.3	104.8	104.8	2.10	2.10	3.0	3.0	4.0	4.0
100X100X90	114.3	101.6	104.8	101.6	2.10	2.10	3.0	3.0	4.0	4.0
100X100X80	114.3	89.1	104.8	98.4	2.10	2.10	3.0	3.0	4.0	4.0
100X100X65	114.3	76.3	104.8	95.3	2.10	2.10	3.0	3.0	4.0	3.5

JIS/KS BUTT-WELDING STAINLESS STEEL FITTINGS

Tee-02

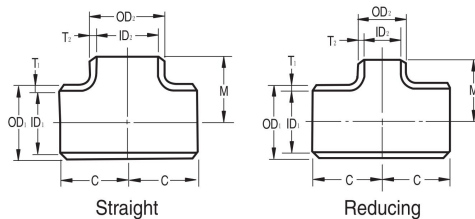


unit:mm

Nominal Pipe Size	Outside Diameter		Center to End		Wall Thickness T					
					SCH5S		SCH10S		SCH20S	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2
125	139.8	139.8	123.8	123.8	2.80	2.80	3.4	3.4	5.0	5.0
125X125X100	139.8	114.3	123.8	117.5	2.80	2.10	3.4	3.0	5.0	4.0
125X125X90	139.8	101.6	123.8	114.3	2.80	2.10	3.4	3.0	5.0	4.0
125X125X80	139.8	89.1	123.8	111.1	2.80	2.10	3.4	3.0	5.0	4.0
150	165.2	165.2	142.9	142.9	2.80	2.80	3.4	3.4	5.0	5.0
150X150X125	165.2	139.8	142.9	136.5	2.80	2.80	3.4	3.4	5.0	5.0
150X150X100	165.2	114.3	142.9	130.2	2.80	2.10	3.4	3.0	5.0	4.0
200	216.3	216.3	177.8	177.8	2.80	2.80	4.0	4.0	6.5	6.5
200X200X150	216.3	165.2	177.8	168.3	2.80	2.80	4.0	3.4	6.5	6.5
200X200X125	216.3	139.8	177.8	161.9	2.80	2.80	4.0	3.4	6.5	6.5
250	267.4	267.4	215.9	215.9	3.40	3.40	4.0	4.0	6.5	6.5
250X250X200	267.4	216.3	215.9	203.2	3.40	2.80	4.0	4.0	6.5	6.5
250X250X150	267.4	165.2	215.9	193.7	3.40	2.80	4.0	3.4	6.5	6.5
300	318.5	318.5	254.0	254.0	4.00	4.00	4.5	4.5	6.5	6.5
300X300X250	318.5	267.4	254.0	241.3	4.00	3.40	4.5	4.0	6.5	6.5
300X300X200	318.5	216.3	254.0	228.6	4.00	2.80	4.5	4.0	6.5	6.5
350	355.6	355.6	279.4	279.4	-	-	-	-	-	-
350X350X300	355.6	318.5	279.4	269.9	-	-	-	-	-	-
350X350X250	355.6	267.4	279.4	257.2	-	-	-	-	-	-
350X350X200	355.6	216.3	279.4	247.0	-	-	-	-	-	-
400	406.4	406.4	304.8	304.8	-	-	-	-	-	-
400X400X350	406.4	355.6	304.8	304.8	-	-	-	-	-	-
400X400X300	406.4	318.5	304.8	295.3	-	-	-	-	-	-
400X400X250	406.4	267.4	304.8	282.6	-	-	-	-	-	-

JIS/KS BUTT-WELDING STAINLESS STEEL FITTINGS

Tee-03

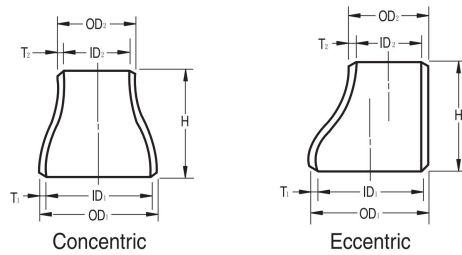


unit:mm

Nominal Pipe Size	Outside Diameter		Center to End		Wall Thickness T					
					SCH5S		SCH10S		SCH20S	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2
450	457.2	457.2	342.9	342.9	-	-	-	-	-	-
450X450X400	457.2	406.4	342.9	330.2	-	-	-	-	-	-
450X450X350	457.2	355.6	342.9	330.2	-	-	-	-	-	-
450X450X300	457.2	318.5	342.9	320.7	-	-	-	-	-	-
500	508.0	508.0	381.0	381.0	-	-	-	-	-	-
500X500X450	508.0	457.2	381.0	368.0	-	-	-	-	-	-
500X500X400	508.0	406.4	381.0	355.6	-	-	-	-	-	-
500X500X350	508.0	355.6	381.0	355.6	-	-	-	-	-	-
550	558.8	558.8	419.1	419.1	-	-	-	-	-	-
550X550X500	558.8	508.0	419.1	406.4	-	-	-	-	-	-
550X550X450	558.8	457.2	419.1	393.7	-	-	-	-	-	-
550X550X400	558.8	406.4	419.1	381.0	-	-	-	-	-	-
600	609.6	609.6	431.8	431.8	-	-	-	-	-	-
600X600X550	609.6	558.8	431.8	431.8	-	-	-	-	-	-
600X600X500	609.6	508.0	431.8	431.8	-	-	-	-	-	-
600X600X400	609.6	457.2	431.8	419.1	-	-	-	-	-	-
750	762.0	762.0	558.8	558.8	-	-	-	-	-	-
750X750X600	762.0	609.6	558.8	533.4	-	-	-	-	-	-

JIS/KS BUTT-WELDING STAINLESS STEEL FITTINGS

Reducer-01

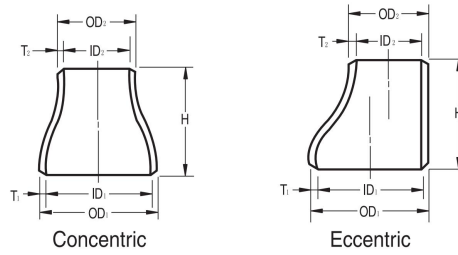


unit:mm

Nominal Pipe Size	Outside Diameter		End to End	Wall Thickness T					
	OD1	OD2	H	SCH5S		SCH10S		SCH20S	
				T1	T2	T1	T2	T1	T2
25 X 20	34.0	27.2	50.8	1.65	1.65	2.8	2.1	3.0	2.5
25 X 15	34.0	21.7	50.8	1.65	1.65	2.8	2.1	3.0	2.5
32 X 25	42.7	34.0	50.8	1.65	1.65	2.8	2.8	3.0	3.0
32 X 20	42.7	27.2	50.8	1.65	1.65	2.8	2.1	3.0	2.5
40 X 32	48.6	42.7	63.5	1.65	1.65	2.8	2.8	3.0	3.0
40 X 25	48.6	34.0	63.5	1.65	1.65	2.8	2.8	3.0	3.0
40 X 20	48.6	27.2	63.5	1.65	1.65	2.8	2.1	3.0	2.5
50 X 40	60.5	48.6	76.2	1.65	1.65	2.8	2.8	3.5	3.0
50 X 32	60.5	42.7	76.2	1.65	1.65	2.8	2.8	3.5	3.0
50 X 25	60.5	34.0	76.2	1.65	1.65	2.8	2.8	3.5	3.0
65 X 50	76.3	60.5	88.9	2.10	1.65	3.0	2.8	3.5	3.5
65 X 40	76.3	48.6	88.9	2.10	1.65	3.0	2.8	3.5	3.0
65 X 32	76.3	42.7	88.9	2.10	1.65	3.0	2.8	3.5	3.0
80 X 65	89.1	76.3	88.9	2.10	2.10	3.0	3.0	4.0	3.5
80 X 50	89.1	60.5	88.9	2.10	1.65	3.0	2.8	4.0	3.5
80 X 40	89.1	48.6	88.9	2.10	1.65	3.0	2.8	4.0	3.0
90 X 80	101.6	89.1	101.6	2.10	2.10	3.0	3.0	4.0	4.0
90 X 65	101.6	76.3	101.6	2.10	2.10	3.0	3.0	4.0	Page05
90 X 50	101.6	60.5	101.6	2.10	1.65	3.0	2.8	4.0	3.5
100 X 90	114.3	101.6	101.6	2.10	2.10	3.0	3.0	4.0	4.0
100 X 80	114.3	89.1	101.6	2.10	2.10	3.0	3.0	4.0	4.0
100 X 65	114.3	76.3	101.6	2.10	2.10	3.0	3.0	4.0	3.5
100 X 50	114.3	60.5	101.6	2.10	1.65	3.0	2.8	4.0	3.5
125 X 100	139.8	114.3	127.0	2.80	2.10	3.4	3.0	4.0	4.0
125 X 90	139.8	101.6	127.0	2.80	2.10	3.4	3.0	5.0	4.0
125 X 80	139.8	89.1	127.0	2.80	2.10	3.4	3.0	5.0	4.0
125 X 65	139.8	76.3	127.0	2.80	2.10	3.4	3.0	5.0	3.5

JIS/KS BUTT-WELDING STAINLESS STEEL FITTINGS

Reducer-02



unit:mm

Nominal Pipe Size	Outside Diameter		End to End	Wall Thickness T					
	OD1	OD2	H	SCH5S		SCH10S		SCH20S	
				T1	T2	T1	T2	T1	T2
150 X 125	165.2	139.8	139.7	2.80	2.80	3.4	3.4	5.0	5.0
150 X 100	165.2	114.3	139.7	2.80	2.10	3.4	3.0	5.0	4.0
150 X 90	165.2	101.6	139.7	2.80	2.10	3.4	3.0	5.0	4.0
150 X 80	165.2	89.1	139.7	2.80	2.10	3.4	3.0	5.0	4.0
200 X 150	216.3	165.2	152.4	2.80	2.80	4.0	3.4	5.0	5.0
200 X 125	216.3	139.8	152.4	2.80	2.80	4.0	3.4	6.5	5.0
200 X 100	216.3	114.3	152.4	2.80	2.10	4.0	3.0	6.5	4.0
250 X 200	267.4	216.3	177.8	3.40	2.80	4.0	4.0	6.5	6.5
250 X 150	267.4	165.2	177.8	3.40	2.80	4.0	3.4	6.5	5.0
300 X 250	318.5	267.4	203.2	4.00	3.40	4.5	4.0	6.5	6.5
300 X 200	318.5	216.3	203.2	4.00	2.80	4.5	4.0	6.5	6.5
300 X 150	318.5	165.2	203.2	4.00	2.80	4.5	3.4	6.5	5.0
350 X 300	355.6	318.5	330.2	4.00	4.00	4.8	4.5	6.5	6.5
350 X 250	355.6	267.4	330.2	4.00	3.40	4.8	4.0	6.5	6.5
350 X 200	355.6	216.3	330.2	4.00	2.80	4.8	4.0	6.5	6.5
400 X 350	355.6	355.6	355.6	4.50	4.00	4.8	4.8	6.5	8.0
400 X 300	406.4	318.5	355.6	4.50	4.00	4.8	4.5	6.5	6.5
400 X 250	406.4	267.4	355.6	4.50	3.40	4.8	4.0	6.5	6.5
450 X 400	457.2	406.4	381.0	4.50	4.50	4.8	5.0	8.0	8.0
450 X 350	457.2	355.6	381.0	4.50	4.00	4.8	5.0	8.0	8.0
450 X 300	457.2	318.5	381.0	5.00	4.00	4.8	4.5	8.0	6.5
500 X 300	508.0	457.2	508.0	5.00	4.00	5.5	4.5	9.5	6.5
550 X 500	558.8	508.0	508.0	5.00	5.00	5.5	5.5	-	-
550 X 450	558.8	457.2	508.0	5.00	4.50	5.5	5.0	-	-
550 X 400	558.8	406.4	508.0	5.00	4.50	5.5	5.0	-	-
600 X 400	609.6	406.4	508.0	5.50	4.50	6.5	5.0	9.5	8.0