

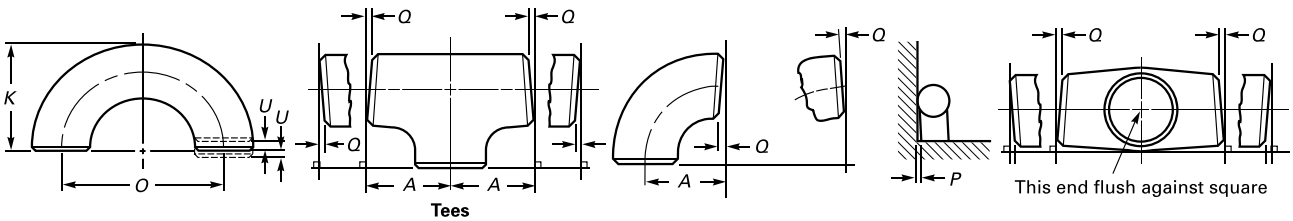
# **BUTTWELDING FITTINGS**



# Tolerances for Butt-Welding Fittings

Nominal Pipe Size		All Fittings			90°/45° Elbows, Tees, Crosses	Reducer, Lap joint stub Ends	Caps	180° Return Elbows		
		Outside Diameter at Bevel	Inside Diameter at Bevel	Thickness	Center-to-End Dimension, ±	Overall Length	Overall Length	Center-to-Center Dimension	Back-to-Face Dimension	Alignment of Ends
DN	NPS	OD, D1, D2	ID	T	A, B, C, M	H, F	E, EI	O	K	U
15-65	1/2 - 2.1/2	+1.6, -0.8	0.8	Not less than 87.5% of nominal thickness	2	2	3	6	6	1
80-90	3-3.1/2	1.6	1.6		2	2	3	6	6	1
100	4	1.6	1.6		2	2	3	6	6	1
125-200	5-8	+2.4, -1.6	1.6		2	2	6	6	6	1
250-450	10-18	+4.0, -3.2	3.2		2	2	6	10	6	2
500-600	20-24	+6.4, -4.8	4.8		2	2	6	10	6	2
650-750	26-30	+6.4, -4.8	4.8		3	5	10	-	-	-
800-1200	32-48	+6.4, -4.8	4.8		5	5	10	-	-	-
1300-1500	52-60	+9.5, -6.4	6.4		9.5	-	-	-	-	-
1600-1700	64-68	+12, -9.5	9.5		12	-	-	-	-	-
1800-2000	72-80	+16, -12	12.0		16	-	-	-	-	-

**Note:** All dimensions are in mm. If you could not find the size, please [contact us](#).



## Angularity Tolerance of Butt-Welding Fittings

Nominal Size		DN	15-100	125-200	250-300	350-400	450-600	650-750	800-1050	1100-1200	1300-1500
		NPS	1/2 - 4	5-8	10-12	14-16	18-24	26-30	32-42	44-48	52-60
Angularity Tolerance	Off Angle	Q	1	2	3	3	4	5	5	5	6.4
	Off Plain	P	2	4	5	6	10	10	13	19	20

# Buttwelding Pipe Fittings Supplying Range – ANSI/ASME B16.9

Product	Size*	Wall Thickness**	Seamless	Welded
Elbow	1/2"-24"	SCH10S~XXS	√	√
	8"-104"	SCH5S~80S/XS		√
Tee	1/2"-24"	SCH10S~XXS	√	√
	8"-104"	SCH5S~80S/XS		√
Reducer	1/2"-24"	SCH10S~XXS	√	√
	8"-104"	SCH5S~80S/XS		√
Cap	1/2"-80"	SCH10S~SCH160	√	
Lap Joint Stub End	1/2"-24"	SCH5S~80S/XS	√	√
	8"-80"	SCH5S~80S/XS		√

**Note:**

\* Dimension range is not available for some special grade such C276-16"\*SCH80. Please make a specific inquiry for these materials.

\*\*Wall thickness range is not available for duplex and some special grade, please make a specific enquiry.

**★ Standard&Norm:**

ASME/ANSI B16.9,

ASME/ANSI B16.28,

MSS-SP-43,

MSS-SP-75,

BS 1640,

DIN/EN10253,

JIS B2311/2312/2313,

ISO 3419,

ISO 5251,

GOST etc

## Available Materials

**★ Stainless Steel**

A403 304/L, 304H

310S, 310H

316/L, 316Ti, 316H

317/L

321/H

347/H

S31803

S32750

904L

254SMO (S31254)

**★ Duplex & Super Duplex**

A815 UNS S31803, S32205, UNS S32750, S32760

**★ Nickel-base Alloy**

Alloy200, 400, K500, 600, 625, 800, 800H, 800HT, 825, alloy 20, alloy28, hastelloy C22, C276

**★ Other Grades**

Cu70Ni30(C71500, B30), Cu90Ni10(C70600,B10)

Titanium & Titanium Alloy

**★ Carbon Steel**

A234 WPB, WPC

**★ Low Temperature Steel**

A420 WPL3, WPL6

**★ Alloy Steel**

A234 WP5, WP9, WP11, WP12, WP22, WP91,WP911,WPR

**★ High Yield**

WPHY42, 46, 50, 52, 56, 60, 65, 70

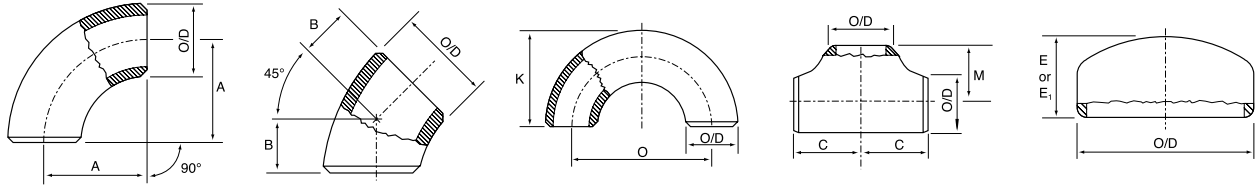
**Note:**

1.Equivalent grade from EN/DIN is available for above.

2.The list above is for your reference only. The actual enquiry will consider order quantity and delivery time.

3.If didn't find your material here, you are kindly requested to make a specific enquiry to [sales@kaysuns.com](mailto:sales@kaysuns.com).

# Butt Weld Fittings Weights & Dimensions



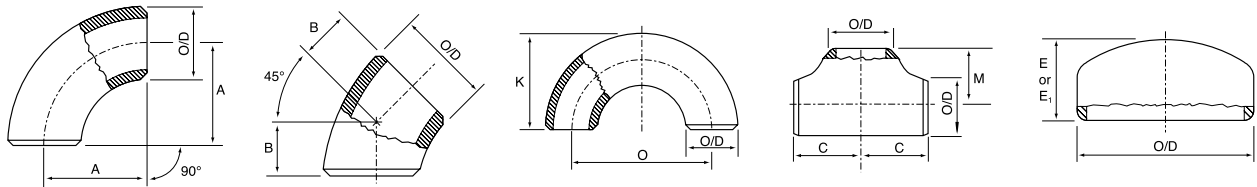
Nominal Size		WT SCH	90° LR ELBOW		45° LR ELBOW		90° SR ELBOW		180° LR ELBOW			Equal Tee		Caps			
mm	inch		A	Weight	B	Weight	A	Weight	O	K	Weight	C and M	Weight	E <sup>‡</sup>	Limiting Wall	E <sub>1</sub> <sup>‡</sup>	Weight
15	1/2	5S	38	0.05	16	0.03		-	76	48	0.11	25	0.09	25	4.57	25	0.04
		10S		0.06		0.03		-			0.12		0.10				0.04
		40S		0.08		0.04		-			0.15		0.10				0.05
		80S		0.10		0.05		-			0.19		0.14				0.05
		160		0.13		0.07		-			0.24		0.17				0.06
		XXS		0.21		0.11		-			0.34		0.27				0.10
20*	3/4*	5S	38	0.06	19	0.03		-	76	51	0.14	29	0.10	25	3.81	25	0.05
		10S		0.07		0.03		-			0.18		0.13				0.05
		40S		0.09		0.04		-			0.20		0.17				0.06
		80S		0.11		0.05		-			0.22		0.20				0.06
		160		0.16		0.07		-			0.30		0.29				0.09
		XXS		0.23		0.11		-			0.40		0.41				0.13
25	1	5S	38	0.09	22	0.05	25	0.08	76	56	0.22	38	0.18	38	4.57	38	0.08
		10S		0.14		0.09		0.10			0.27		0.29				0.09
		40S		0.16		0.11		0.12			0.30		0.30				0.13
		80S		0.22		0.14		0.17			0.42		0.39				0.13
		160		0.30		0.20		0.24			0.60		0.54				0.18
		XXS		0.44		0.28		0.35			0.78		0.77				0.26
32	1-1/4	5S	48	0.14	25	0.09	32	0.14	95	70	0.34	48	0.34	38	4.83	38	0.09
		10S		0.23		0.11		0.17			0.45		0.50				0.13
		40S		0.25		0.17		0.20			0.60		0.60				0.17
		80S		0.40		0.23		0.29			0.70		0.68				0.18
		160		0.52		0.39		0.37			0.90		0.90				0.23
		XXS		0.80		0.45		0.57			1.28		1.36				0.35
40	1-1/2	5S	57	0.17	29	0.11	38	0.20	114	83	0.48	57	0.43	38	5.08	38	0.10
		10S		0.31		0.17		0.22			0.60		0.68				0.14
		40S		0.40		0.23		0.29			0.81		0.86				0.23
		80S		0.51		0.29		0.40			1.02		1.02				0.25
		160		0.72		0.40		0.56			1.40		1.43				0.34
		XXS		1.03		0.57		0.80			1.80		2.05				0.49
50	2	5S	76	0.29	35	0.14	51	0.29	152	106	0.80	64	0.55	38	5.59	44	0.16
		10S		0.51		0.25		0.37			1.05		0.85				0.17
		40S		0.71		0.40		0.51			1.32		1.29				0.27
		80S		0.91		0.51		0.70			1.92		1.59				0.34
		160		1.43		0.80		1.10			2.80		2.50				0.53
		XXS		1.82		1.03		1.41			3.40		3.18				0.68
65	2-1/2	5S	95	0.68	44	0.34	64	0.57	190	132	1.20	76	0.98	38	7.11	51	0.23
		10S		0.85		0.48		0.62			1.59		1.41				0.25
		40S		1.36		0.77		1.02			2.52		2.20				0.45
		80S		1.82		1.00		1.31			3.42		3.14				0.51
		160		2.47		1.34		1.76			4.60		4.26				0.67
		XXS		3.64		1.99		2.62			6.20		6.27				1.02

**Note:**

- Weights and dimensions listed above are a guide only. Dimensions in mm. Weights in kg.
- There are 2 possible dimensions for this size, refer to ANSI B16.9
- Length E applies for thickness not exceeding that given in column "Limiting Wall Thickness"
- Length E1 applies for thickness greater than that given in column "Limiting Wall Thickness"

BUTTWELDING FITTINGS

# Buttweld Fittings Weights & Dimensions

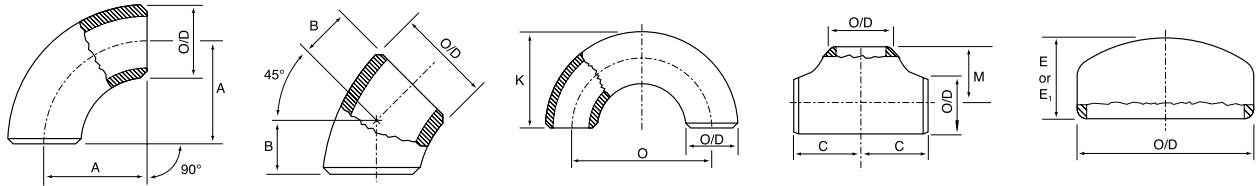


Nominal Size		WT SCH	90° LR ELBOW		45° LR ELBOW		90° SR ELBOW		180° LR ELBOW			Equal Tee		Caps			
mm	inch		A	Weight	B	Weight	A	Weight	O	K	Weight	C and M	Weight	E <sup>‡</sup>	Limiting Wall	E <sub>1</sub> <sup>‡</sup>	Weight
80	3	5S	114	0.91	51	0.48	76	0.80	229	159	2.00	86	1.55	51	7.62	64	0.39
		10S		1.22		0.63		0.99			2.40		1.77				0.40
		40S		2.19		1.08		1.50			4.50		3.32				0.71
		80S		2.98		1.50		1.91			5.88		4.45				0.85
		160		4.35		2.18		2.77			8.20		6.50				1.23
		XXS		5.96		3.01		3.82			11.00		8.91				1.70
90	3 - 1/2	5S	133	1.19	57	0.53	89	1.07	267	184	3.20	95	2.50	64	8.13	76	0.55
		10S		1.70		0.75		1.39			4.00		2.67				0.57
		40S		2.84		1.42		2.06			5.80		4.09				1.02
		80S		4.00		2.00		2.43			7.92		5.45				1.14
		160		-		-		-			-		-				-
		XXS		8.00		4.00		4.86			WOR		10.91				2.27
100	4	5S	152	1.50	64	0.75	102	1.42	305	210	3.68	105	3.27	64	8.64	76	0.57
		10S		2.16		1.08		1.72			4.44		3.47				0.65
		40S		4.18		2.09		3.13			6.00		5.29				1.22
		80S		6.20		3.10		4.12			12.36		7.73				1.61
		160		9.79		4.94		6.46			19.80		12.21				2.52
		XXS		12.39		6.20		8.24			24.80		15.45				3.22
127	5	5S	190	2.95	79	1.48	127	2.25	381	262	7.60	124	5.91	76	9.65	89	0.91
		10S		3.64		1.82		2.78			8.52		6.11				1.02
		40S		6.88		3.44		5.29			15.00		9.43				1.85
		80S		9.60		4.80		7.32			18.90		11.36				2.56
		160		16.04		7.96		12.15			30.00		18.98				4.26
		XXS		19.21		9.60		14.64			37.00		22.73				5.12
150	6	5S	229	4.55	95	2.27	152	3.52	457	313	9.80	143	7.82	89	10.92	102	1.25
		10S		5.45		2.73		4.16			12.00		8.09				1.36
		40S		10.91		5.45		7.95			18.00		11.02				3.24
		80S		16.36		8.18		11.82			33.60		13.64				4.55
		160		27.16		9.49		19.62			52.00		22.64				7.27
		XXS		32.73		16.36		23.64			60.00		27.27				9.09
200	8	5S	305	7.86	127	3.93	203	7.02	610	414	16.00	178	14.09	102	12.70	127	2.05
		10S		10.68		5.34		8.01			21.48		15.68				2.50
		40S		21.59		10.80		17.09			40.80		20.95				5.68
		80S		33.18		16.59		24.91			71.40		28.18				7.45
		160		60.00		29.20		45.08			118.00		50.91				13.47
		XXS		57.73		29.03		49.55			122.00		49.09				10.35
250	10	5S	381	14.55	159	7.27	254	12.45	762	518	36.00	216	25.00	127	12.70	152	4.32
		10S		19.55		9.77		15.91			51.28		26.82				4.91
		40S		38.64		19.32		28.64			79.80		35.45				9.23
		80S		51.82		25.91		45.36			104.00		50.00				12.41
		160		116.36		57.73		101.82			220.00		112.27				27.92
		XXS		-		-		-			-		-				-

**Note:**

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# Buttweld Fittings Weights & Dimensions



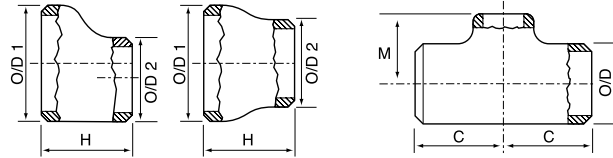
BUTTWELDING FITTINGS

Nominal Size		WT SCH	90° LR ELBOW		45° LR ELBOW		90° SR ELBOW		180° LR ELBOW			Equal Tee		Caps			
mm	inch		A	Weight	B	Weight	A	Weight	O	K	Weight	C and M	Weight	E <sup>‡</sup>	Limiting Wall	E <sup>‡</sup>	Weight
300	12	5S	457	23.18	190	11.59	305	15.91	914	619	52.00	254	37.73	152	12.70	178	6.36
		10S		27.27		13.64		18.18			59.04		39.55				6.55
		40S		59.55		29.77		36.36			121.00		62.27				13.09
		80S		79.55		39.77		56.82			151.00		84.09				16.64
		160		208.18		104.09		148.64			348.00		220.00				43.18
		XXS		-		-		-			-		-				-
350	14	5S	533	30.91	222	15.45	356	20.00	1067	711	72.00	279	40.45	165	12.70	191	7.73
		10S		36.36		18.18		23.64			81.00		48.64				8.18
		40S		70.45		35.23		45.91			164.00		79.55				16.23
		80S		93.64		46.82		61.36			264.00		95.45				21.82
		160		-		-		-			-		-				-
		XXS		-		-		-			-		-				-
400	16	5S	610	45.45	254	22.73	406	29.55	1219	813	94.00	305	52.27	178	12.70	203	13.64
		10S		47.73		23.86		30.91			105.00		59.09				14.55
		40S		91.82		45.91		59.55			224.00		100.00				22.05
		80S		122.27		60.91		79.55			400.00		120.45				29.55
		160		-		-		-			-		-				-
		XXS		-		-		-			-		-				-
450	18	5S	686	56.82	286	28.41	457	36.82	1372	914	WOR	343	67.73	203	12.70	229	17.27
		10S		60.00		30.00		39.09			WOR		76.82				18.00
		40S		122.27		59.55		79.55			WOR		130.00				27.00
		80S		159.09		79.55		103.64			WOR		156.36				36.00
		160		-		-		-			-		-				-
		XXS		-		-		-			-		-				-
500	20	5S	762	75.00	318	37.50	508	48.64	1524	1016	WOR	381	77.73	229	12.70	254	25.00
		10S		100.00		50.00		65.00			WOR		103.64				27.27
		40S		150.00		75.00		97.73			WOR		162.73				34.09
		80S		199.55		99.55		129.55			WOR		195.45				40.00
		160		-		-		-			-		-				-
		XXS		-		-		-			-		-				-
550	22	5S	838	99.40	343	49.70	559	61.06	1676	1118	WOR	419	84.72	254	12.70	254	WOR
		10S		163.03		81.13		73.02			WOR		101.35				WOR
		40S		163.03		81.13		120.83			WOR		170.07				WOR
		80S		210.83		104.87		156.29			WOR		217.46				WOR
		160		-		-		-			-		-				-
		XXS		-		-		-			-		-				-
600	24	5S	919	127.27	381	63.64	610	82.73	1829	1219	WOR	432	135.45	267	12.70	305	34.09
		10S		140.91		70.45		91.82			WOR		155.91				34.55
		40S		210.91		105.45		137.27			WOR		226.36				44.55
		80S		280.45		140.00		182.27			WOR		272.73				61.36
		160		-		-		-			-		-				-
		XXS		-		-		-			-		-				-

**Note:**

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# Buttweld Fittings Weights & Dimensions



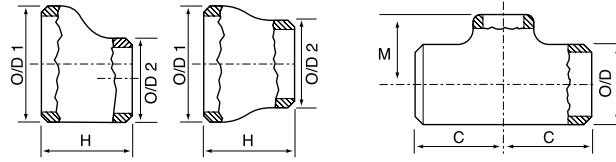
Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
20 X 15	3/4 X 1/2	5S	38	0.08	29	29	0.09
		10S		0.10			0.11
		40S		0.14			0.15
		80S		0.18			0.18
		160		0.25			0.26
		XXS		0.36			0.37
25 X 15	1 X 1/2	5S	51	0.07	38	38	0.16
		10S		0.12			0.25
		40S		0.15			0.26
		80S		0.20			0.34
		160		0.26			0.47
		XXS		0.40			0.68
25 X 20	1 X 3/4	5S	51	0.08	38	38	0.16
		10S		0.13			0.25
		40S		0.16			0.27
		80S		0.22			0.35
		160		0.28			0.49
		XXS		0.45			0.70
32 X 20	1-1/4 X 3/4	5S	51	0.30	48	48	0.10
		10S		0.44			0.18
		40S		0.52			0.22
		80S		0.60			0.25
		160		0.79			0.33
		XXS		1.20			0.51
32 X 25	1-1/4 X 1	5S	51	0.10	48	48	0.31
		10S		0.18			0.45
		40S		0.22			0.53
		80S		0.27			0.61
		160		0.37			0.80
		XXS		0.54			1.23
40 X 20	1-1/2 X 3/4	5S	64	0.11	57	57	0.37
		10S		0.18			0.59
		40S		0.24			0.74
		80S		0.32			0.88
		160		0.45			1.23
		XXS		0.65			1.76

Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
40 X 25	1-1/2 X 1	5S	64	0.11	57	57	0.38
		10S		0.20			0.60
		40S		0.26			0.76
		80S		0.34			0.90
		160		0.47			1.26
		XXS		0.67			1.80
40 X 32	1-1/2 X 1-1/4	5S	64	0.12	57	57	0.39
		10S		0.21			0.61
		40S		0.28			0.78
		80S		0.36			0.92
		160		0.51			1.29
		XXS		0.73			1.84
50 X 20	2 X 3/4	5S	76	0.15	64	44	0.46
		10S		0.25			0.72
		40S		0.36			1.09
		80S		0.50			1.35
		160		0.79			2.12
		XXS		1.01			2.70
50 X 25	2 X 1	5S	76	0.17	64	51	0.47
		10S		0.28			0.73
		40S		0.40			1.10
		80S		0.54			1.37
		160		0.84			2.15
		XXS		1.07			2.74
50 X 40	2 X 1-1/2	5S	76	0.19	64	60	0.49
		10S		0.31			0.76
		40S		0.45			1.15
		80S		0.59			1.43
		160		0.93			2.25
		XXS		1.18			2.86
65 X 25	2-1/2 X 1	5S	89	0.25	76	57	0.83
		10S		0.38			1.20
		40S		0.65			1.87
		80S		0.87			2.66
		160		1.18			3.62
		XXS		1.75			5.33

**Note:**

- Weights and dimensions listed above are a guide only. Dimensions in mm. Weights in kg.
- There are 2 possible dimensions for this size, refer to ANSI B16.9

# Buttweld Fittings Weights & Dimensions



BUTTWELDING FITTINGS

Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
65 X 40	2-1/2 X 1-1/2	89	5S	0.30	76	67	0.86
			10S	0.45			1.24
			40S	0.76			1.94
			80S	0.94			2.76
			160	1.27			3.75
			XXS	1.88			5.52
64 X 50	2-1/2 X 2	89	5S	0.32	76	70	0.88
			10S	0.47			1.27
			40S	0.80			1.98
			80S	1.03			2.82
			160	1.39			3.84
			XXS	2.05			5.65
80 X 40	3 X 1-1/2	89	5S	0.35	86	73	1.33
			10S	0.51			1.52
			40S	0.94			2.85
			80S	1.21			3.83
			160	1.75			5.59
			XXS	2.42			7.66
80 X 50	3 X 2	89	5S	0.38	86	76	1.36
			10S	0.55			1.56
			40S	1.00			2.92
			80S	1.30			3.92
			160	1.88			5.72
			XXS	2.59			7.84
80 X 65	3 X 2-1/2	89	5S	0.41	86	83	1.39
			10S	0.59			1.60
			40S	1.08			2.99
			80S	1.49			4.01
			160	2.16			5.85
			XXS	2.98			8.02
100 X 65	4 X 1-1/2	102	5S	0.48	105	86	2.75
			10S	0.68			2.91
			40S	1.36			4.44
			80S	1.90			6.49
			160	2.98			10.25
			XXS	3.80			12.98

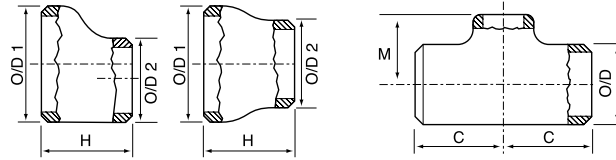
Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
100 X 50	4 X 2	102	5S	0.55	105	89	2.78
			10S	0.79			2.95
			40S	1.58			4.49
			80S	1.96			6.57
			160	3.07			10.38
			XXS	3.92			13.14
100 X 65	4 X 2-1/2	102	5S	0.58	105	95	2.81
			10S	0.83			2.98
			40S	1.66			4.55
			80S	2.20			6.65
			160	3.45			10.50
			XXS	4.39			13.29
100 X 80	4 X 3	102	5S	0.61	105	98	2.88
			10S	0.87			3.05
			40S	1.75			4.65
			80S	2.34			6.80
			160	3.67			10.74
			XXS	4.67			13.60
125 X 080	5 X 3	127	5S	1.20	124	111	5.08
			10S	1.45			5.25
			40S	2.86			8.11
			80S	3.89			9.77
			160	6.45			16.32
			XXS	7.77			19.55
125 X 100	5 X 4	127	5S	1.25	124	117	5.32
			10S	1.50			5.50
			40S	2.99			8.49
			80S	4.14			10.23
			160	6.87			17.08
			XXS	8.28			20.45
150 X 80	6 X 3	140	5S	1.51	143	124	6.65
			10S	1.82			6.88
			40S	3.99			11.96
			80S	5.52			11.59
			160	9.17			19.24
			XXS	11.05			23.18

**Note:**

- 1.Weights and dimensions listed above are a guide only. Dimensions in mm. Weights in kg.
- 2.There are 2 possible dimensions for this size, refer to ANSI B16.9



# Buttweld Fittings Weights & Dimensions



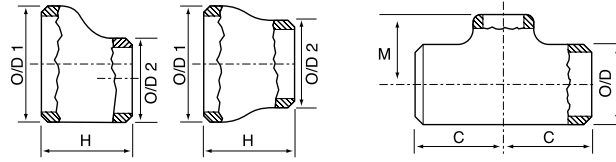
Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
150 X 100	6 X 4	5S	140	1.55	143	130	6.88
		10S		1.96			7.12
		40S		4.09			9.70
		80S		5.97			12.00
		160		9.91			19.92
		XXS		11.95			24.00
150 X 125	6 X 5	5S	140	1.64	143	137	7.04
		10S		2.02			7.28
		40S		4.31			9.92
		80S		6.27			12.27
		160		10.40			20.37
		XXS		12.54			24.55
200 X 100	8 X 4	5S	152	2.16	178	156	12.12
		10S		3.02			13.49
		40S		6.56			18.02
		80S		9.25			24.24
		160		16.75			43.77
		XXS		16.20			42.23
200 X 125	8 X 5	5S	152	2.21	178	162	12.40
		10S		3.09			13.80
		40S		6.72			18.44
		80S		9.69			24.80
		160		17.50			44.77
		XXS		16.96			43.18
200 X 150	8 X 6	5S	152	2.30	178	168	12.68
		10S		3.20			14.11
		40S		6.96			18.86
		80S		10.15			25.36
		160		18.32			45.91
		XXS		17.75			44.18
250 X 100	10 X 4	5S	178	3.79	216	184	21.25
		10S		4.74			23.25
		40S		10.54			30.14
		80S		12.58			42.50
		160		28.32			95.45
		XXS		-			-

Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
250 X 125	10 X 5	5S	178	3.92	216	191	21.50
		10S		4.90			23.06
		40S		10.89			30.49
		80S		14.27			43.00
		160		32.09			96.36
		XXS		-			-
250 X 150	10 X 6	5S	178	4.01	216	194	22.00
		10S		5.01			23.60
		40S		11.15			31.20
		80S		14.82			44.00
		160		33.32			98.64
		XXS		-			-
250 x 200	10 x 8	5S	178	4.17	216	194	22.50
		10S		5.21			24.14
		40S		11.58			31.91
		80S		15.61			45.00
		160		35.05			100.91
		XXS		-			-
300 X 150	12 X 6	5S	203	6.37	254	219	32.45
		10S		7.45			34.01
		40S		15.51			53.64
		80S		20.19			72.27
		160		52.73			189.09
		XXS		-			-
300 X 200	12 X 8	5S	203	6.57	254	229	33.20
		10S		7.69			34.80
		40S		16.02			54.55
		80S		20.94			74.09
		160		54.55			193.64
		XXS		-			-
300 X 250	12 X 10	5S	203	6.83	254	241	33.95
		10S		8.00			35.59
		40S		16.67			55.91
		80S		21.68			75.45
		160		56.36			197.73
		XXS		-			-

**Note:**

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# Buttweld Fittings Weights & Dimensions



BUTTWELDING FITTINGS

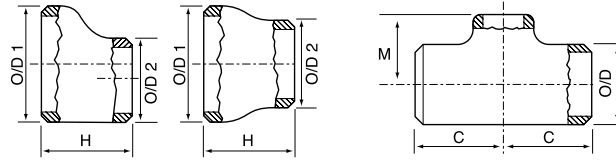
Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
350 X 150	14 X 6	5S	330	10.81	279	238	34.39
		10S		13.18			41.34
		40S		26.36			67.27
		80S		35.37			80.91
		160		-			-
		XXS		-			-
350 X 200	14 X 8	5S	330	11.41	279	248	34.79
		10S		13.91			41.83
		40S		27.83			68.18
		80S		36.92			81.82
		160		-			-
		XXS		-			-
350 X 250	14 X 10	5S	330	11.84	279	257	35.60
		10S		14.44			42.80
		40S		28.89			70.00
		80S		38.82			84.09
		160		-			-
		XXS		-			-
350 X 300	14 X 12	5S	330	12.56	279	270	36.41
		10S		15.32			43.77
		40S		30.65			71.36
		80S		40.44			85.91
		160		-			-
		XXS		-			-
400 X 200	16 X 8	5S	356	14.72	305	273	44.43
		10S		16.73			50.00
		40S		33.46			85.00
		80S		44.31			102.27
		160		-			-
		XXS		-			-
400 X 250	16 X 10	5S	356	15.62	305	283	44.95
		10S		17.75			50.91
		40S		35.51			85.91
		80S		46.36			103.64
		160		-			-
		XXS		-			-

Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
400 X 300	16 X 12	5S	356	16.18	305	295	45.91
		10S		18.39			51.82
		40S		36.78			87.73
		80S		47.73			105.91
		160		-			-
		XXS		-			-
400 X 350	16 X 14	5S	356	16.58	305	305	46.82
		10S		18.85			53.18
		40S		37.69			90.00
		80S		49.09			108.18
		160		-			-
		XXS		-			-
450 X 250	18 X 10	5S	381	18.54	343	308	57.27
		10S		21.06			65.00
		40S		42.13			110.45
		80S		54.55			132.73
		160		-			-
		XXS		-			-
450 X 300	18 X 12	5S	381	18.94	343	321	58.18
		10S		21.52			65.91
		40S		43.05			111.82
		80S		57.27			134.55
		160		-			-
		XXS		-			-
450 X 350	18 X 14	5S	381	19.31	343	330	59.55
		10S		21.95			67.27
		40S		43.89			114.09
		80S		57.73			137.73
		160		-			-
		XXS		-			-
450 X 400	18 X 16	5S	381	19.84	343	330	60.91
		10S		22.55			69.09
		40S		45.09			116.82
		80S		59.09			140.45
		160		-			-
		XXS		-			-

**Note:**

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- 2.There are 2 possible dimensions for this size, refer to ANSI B16.9

# Buttweld Fittings Weights & Dimensions



Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
500 X 300	20 X 12	5S	508	32.50	381	346	65.91
		10S		32.50			87.73
		40S		65.00			138.18
		80S		85.91			165.91
		160		-			-
		XXS		-			-
500 X 350	20 X 14	5S	508	32.95	381	356	66.82
		10S		38.23			89.09
		40S		65.91			140.00
		80S		87.27			168.18
		160		-			-
		XXS		-			-
500 X 400	20 X 16	5S	508	33.18	381	356	68.18
		10S		38.49			90.91
		40S		66.36			143.18
		80S		88.64			171.82
		160		-			-
		XXS		-			-
500 X 450	20 X 18	5S	508	34.32	381	368	70.00
		10S		26.17			93.18
		40S		68.64			146.36
		80S		90.00			175.91
		160		-			-
		XXS		-			-
550 X 350	22 X 14	5S	508	WOR	419	381	WOR
		10S		36.01			WOR
		40S		59.08			WOR
		80S		76.97			WOR
		160		-			-
		XXS		-			-
550 X 400	22 X 16	5S	508	WOR	419	381	78.00
		10S		38.01			130.23
		40S		62.40			130.23
		80S		81.25			169.22
		160		-			-
		XXS		-			-

Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
550 X 450	22 X 18	5S	508	WOR	419	394	78.47
		10S		WOR			131.14
		40S		WOR			131.14
		80S		WOR			170.74
		160		-			-
		XXS		-			-
550 X 500	22 X 20	5S	508	WOR	419	406	78.94
		10S		42.01			132.06
		40S		68.94			132.06
		80S		89.80			172.88
		160		-			-
		XXS		-			-
600 X 400	24 X 16	5S	508	44.55	432	406	116.36
		10S		44.55			134.09
		40S		76.82			194.55
		80S		102.73			234.55
		160		-			-
		XXS		-			-
600 X 450	24 X 18	5S	508	45.45	432	419	119.09
		10S		45.45			137.27
		40S		78.64			199.09
		80S		104.55			240.00
		160		-			-
		XXS		-			-
600 X 500	24 X 20	5S	508	46.82	432	432	121.82
		10S		46.82			140.00
		40S		81.36			203.64
		80S		106.36			245.45
		160		-			-
		XXS		-			-
600 X 550	24 X 22	5S	508	WOR	432	432	98.59
		10S		52.91			141.16
		40S		75.53			141.16
		80S		98.36			184.53
		160		-			-
		XXS		-			-

**Note:**

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2. There are 2 possible dimensions for this size, refer to ANSI B16.9