

DOOSUNG FITTINGS



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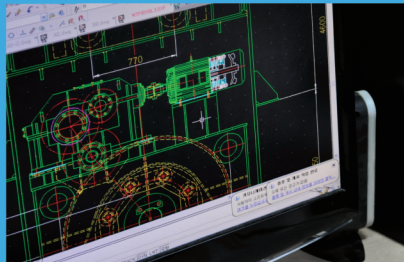
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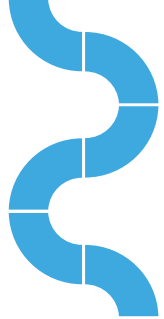


SUPPORT, BELIEVE & RESPECT



HISTORY OF DOOSUNG FITTINGS

1984_05	Established Samsung Special Industry (247-8 Deokpo-dong Buk-gu, Busan, Korea)
1986_11	Expanded and moved the company to 397-7 Samrak-dong, Buk-gu, Busan)
1987_02	Registered as a collaborator of Dongkuk Heavy Equipment Company (Current Changwon Factory of Korea Steel Company) in Changwon, Kyeongnam) Registered as a collaborator of Sammi General Special Steel Co., Ltd. in Changwon, Kyeongnam
1987_04	Registered as a collaborator of Kangwon In. Co., Ltd. (Current INI Steel Co., Ltd.) in Pohang, Kyeongbuk
1987_05	Registered as a collaborator of Korea Heavy Ind. Co., Ltd. (Current Doosan Heavy Ind. Co., Ltd.) in Changwon, Kyeongnam
1988_02	Changed the company name to Samsung Machinery Industry. Co., Ltd
1989_03	Registered as a collaborator of Hanbo Steel Co., Ltd. (Current Y.K. Steel Co., Ltd.) in Busan
1992_07	Expanded and moved the company to 98-19 Sinho-dong, Kangseo-gu, Busan
1994_02	Registered as a collaborator of Hanjin Heavy Ind. Co., Ltd. in Busan
1995_04	Registered as a collaborator of Hyundai Heavy Ind. Co., Ltd. in Ulsan
1995_07	Registered as a collaborator of Incheon Steel Co., Ltd. (Current INI Steel Co., Ltd.)
1997_10	Changed the company name to Doosung Machines Co., Ltd. and established the Bend Business Department (45-3 Sincheon-ri, Hanrim-myeon, Kimhae, Keongnam)
2000_10	Bend Business Department acquired the certification of KS Mark
2002_09	Separated the Bend Business Department from the company (Established the separate company of Doosung Bend Co., Ltd.)
2004_08	Doosung Bend Co., Ltd. acquired the certification of KS Mark
2006_07	Acquired the certification of Quality Management System from KSA (ISO 9001)
2006_10	Acquired the type approval from Korean Register of Shipping (KR)
2011_01	Acquired the type approval from Bureau Veritas (BV)



MANUFACTURED PRODUCT OF DOOSUNG FITTINGS

You are able to use 'Piping' to connect straight or tube pipes and also plumbing system. It is suitable for any size and shape to control fluid flow.



90 ° Elbow



A pipe fitting installed between two lengths of pipe or tube allowing a change of 90° direction.

45 ° Elbow



A pipe fitting installed between two lengths of pipe or tube allowing a change of 45° direction.

Cap



A type of pipe fitting, often liquid or gas tight, which covers the end of a pipe.

Tee



A tee is used to either combine or split a fluid flow.

Eccentric Reducer

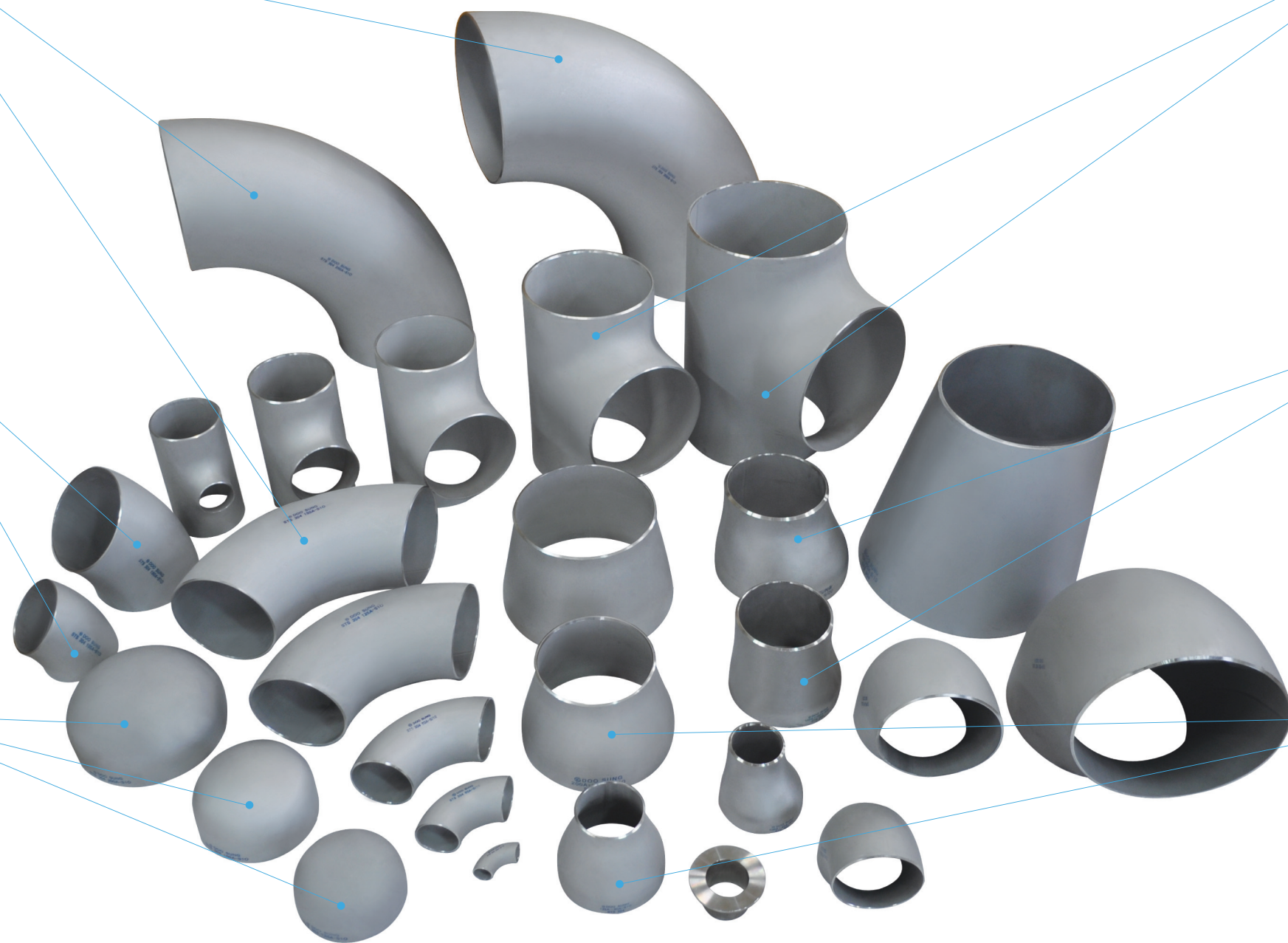


A reducer allows for a change in pipe size to meet hydraulic requirements of the system or to adapt to existing piping of a different size.

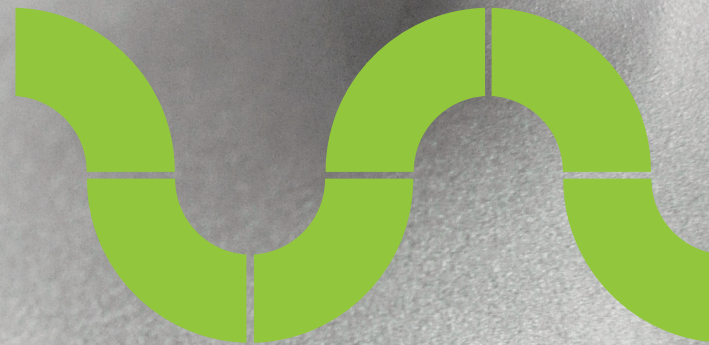
Concentric Reducer



Reducers are usually concentric but eccentric reducers are used when required to maintain the same top- or bottom-of-pipe level.



TECHNOLOGY & EXPERIENCE



MAIN PRODUCT DELIVERY RESULTS

Dowon Environmental Machines
Yoonchang Mechanical Engineering

Hyosung Corporation

Sungyoon Industry
Dongshin Facilities
Anam Facilities

Taeyoung Constructions
Shinchang Corporation
Haenglim Constructions
Entoped
Daeheung Fittings
J&G
Daeil Fire Equipments
LHE
Onchon Facilities

Namak Sewage Treatment Plant
Samsung Heavy Industries, Water Supply Plant
Samsung Heavy Industries, Garogi Complex
Halla Engineering & Construction, Hyundai Heavy Industries,
Goonsan Construction Site
Gyooldo Office Building
Turkey Stantex Factory
China Stantex Factory
Vietnam Tire Code Factory
Ulsan Petrochemical Complex
Philip Factory
Samsung Shipbuilding, Water Supply Line
Yangsan Exen Tire Warehouse
LG 1st Factory
LG 2nd Factory
Mycom Korea
Dong Suh Food
LG 2nd Factory Dormitory
Dong Suh Oil & Fats
Gyungjoo Sewage Treatment Plant
Woldo Pump
Andong Hospital
Jeonnam Hwasoon Sewage Treatment Complex
Janghan Technologies
Samjungja Middle School, Changwon
Busan University of Education Dormitory
Buyoung Apartment
Gyungil University Dormitory
Youngchon Cultural Laboratory



OUR GLOBAL CLIENTS

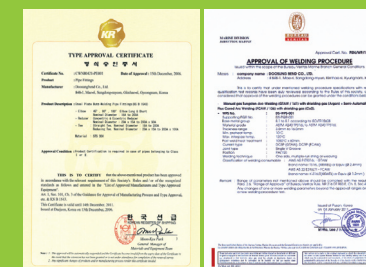


CERTIFICATIONS

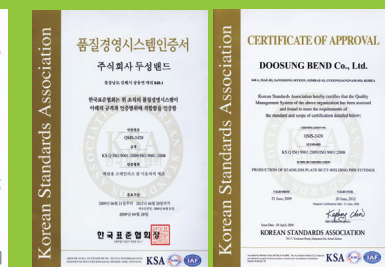
• Certificate of Product



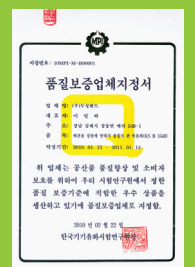
• Certificate of Form



• Quality Management System(QMS)



• Quality Examination

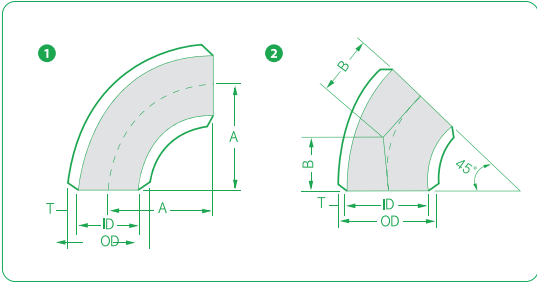




STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- KS B 1543, KS B 1541, JIS B 2313

- 1 90° Elbow (Long,Short)
- 2 45° Elbow (Long)



Unit: mm														
Nominal Pipe Size	Outside Diameter (O.D)	Sch 5s		Sch 10s		Sch 20s		Sch 40s		Sch 80s		Long		Short
		I-D	T	I-D	T	I-D	T	I · D	T	I-D	T	A(90°)	B(45°)	
15	21.7	18.4	1.65	17.5	2.1	16.7	2.5	16.1	2.8	14.3	3.7	38.1	15.8	-
20	27.2	23.9	1.65	23.0	2.1	22.2	2.5	21.4	2.9	19.4	3.9	38.1	15.8	-
25	34.0	30.7	1.65	28.4	2.8	28.0	3.0	27.2	3.4	25.0	4.5	38.1	15.8	2.54
32	42.7	39.4	1.65	37.1	2.8	36.7	3.0	35.5	3.6	32.9	4.9	47.6	19.7	31.8
40	48.6	45.3	1.65	43.0	2.8	42.6	3.0	41.2	3.7	38.4	5.1	57.2	23.7	38.1
50	60.5	57.2	1.65	54.9	2.8	53.5	3.5	52.7	3.9	49.5	5.5	76.2	31.6	50.8
65	76.3	72.1	2.1	70.3	3.0	69.3	3.5	65.9	5.2	62.3	7.0	95.3	39.5	63.5
80	89.1	84.9	2.1	83.1	3.0	81.1	4.0	78.1	5.5	73.9	7.6	114.3	47.3	76.2
100	114.3	110.1	2.1	108.3	3.0	106.3	4.0	102.3		97.1	8.6	152.4	63.1	101.6
125	139.8	134.2	2.8	133.0	3.4	129.8	5.0	126.6	6.6	120.8	9.5	190.5	78.9	127.0
150	165.2	159.6	2.8	158.4	3.4	155.2	5.0	151.0	7.1	143.2	11.0	228.6	94.7	152.4
200	216.3	210.7	2.8	208.3	4.0	203.3	6.5	199.9	8.2	190.9	12.7	304.8	126.3	203.2
250	267.4	260.3	3.4	259.4	4.0	254.4	6.5	248.8	9.3	237.2	15.1	381.0	157.8	254.0
300	318.5	310.5	4.0	309.5	4.5	305.5	6.5	297.9	10.3	283.7	17.4	457.2	189.4	304.8
350	355.6	347.6	4.0	346.0	4.8	339.8	7.9	33.4	11.1	317.6	19.0	533.4	220.9	355.6
400	406.4	398.0	4.2	396.8	4.8	390.6	7.9	381.0	12.7	363.6	21.4	609.6	252.5	406.4
450	457.2	448.8	4.2	447.6	4.8	441.4	7.9	428.6	14.3	409.6	23.8	685.8	284.1	457.2
500	508.0	498.4	4.8	497.0	5.5	492.2	7.9	477.8	15.1	455.6	26.2	762.0	315.6	508.0
550	558.8	549.2	4.8	547.8	5.5	539.8	9.5	-	-	501.6	28.6	838.2	347.2	558.8
600	609.6	598.6	5.5	596.8	6.4	590.6	9.5	574.8	17.4	547.6	31.0	914.4	378.7	609.6
650	660.4	649.4	5.5	644.6	7.9	635.0	12.7	625.6	17.4	-	-	990.6	410.3	660.4
700	711.2	700.2	5.5	695.4	7.9	685.8	12.7	676.4	17.4	-	-	1066.8	441.9	711.2
750	762.0	749.2	6.4	746.2	7.9	736.6	12.7	727.2	17.4	-	-	1,143.0	473.4	762.0
800	812.8	800.0	6.4	797.0	7.9	787.4	12.7	778.0	17.4	-	-	1,219.2	505.0	812.8
850	863.6	850.8	6.4	847.8	7.9	838.2	12.7	828.6	17.4	-	-	1,295.4	536.6	863.6
900	914.4	901.6	6.4	898.6	7.9	889.0	12.7	876.4	19.0	-	-	1,371.6	568.1	914.4

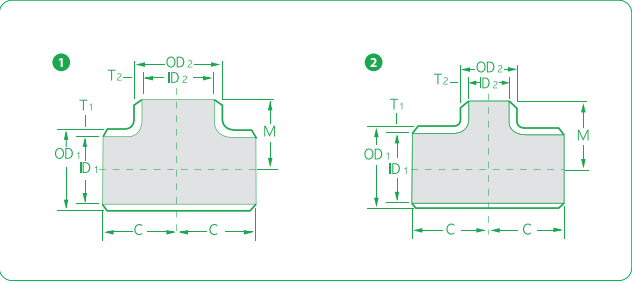
Unit : mm



STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- KS B 1543, KS B 1541, JIS B 2313

- Tee
- 1 Straight (1)
- 2 Reducing (1)



Nominal Pipe Size	Outside Diameter		Wall Thickness T										Center to End	
			Sch 5s		Sch 10s		Sch 20s		Sch 40s		Sch 80s			
	OD1	OD2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	C	M
15	21.7	21.7	1.65	1.65	2.1	2.1	2.5	2.5	2.8	2.8	3.7	3.7	2.54	2.54
20	27.2	27.2	1.65	1.65	2.1	2.1	2.5	2.5	2.9	2.9	3.9	3.9	28.6	28.6
20x20x15	27.2	21.7	1.65	1.65	2.1	2.1	2.5	2.5	2.9	2.8	3.9	3.7	28.6	28.6
25	34.0	34.0	1.65	1.65	2.8	2.8	3.0	3.0	3.4	3.4	4.5	4.5	38.1	38.1
25x25x20	34.0	27.2	1.65	1.65	2.8	2.1	3.0	2.5	3.4	2.9	4.5	3.9	38.1	38.1
25x25x15	34.0	21.7	1.65	1.65	2.8	2.1	3.0	2.5	3.4	2.8	4.5	3.7	38.1	38.1
32	42.7	42.7	1.65	1.65	2.8	2.8	3.0	3.0	3.6	3.6	4.9	4.9	47.6	47.6
32x32x25	42.7	34.0	1.65	1.65	2.8	2.8	3.0	3.0	3.6	3.4	4.9	4.5	47.6	47.6
32x32x20	42.7	27.2	1.65	1.65	2.8	2.1	3.0	2.5	3.6	2.9	4.9	3.9	47.6	47.6
32x32x15	42.7	21.7	1.65	1.65	2.8	2.1	3.0	2.5	3.6	2.8	4.9	3.7	47.6	47.6
40	48.6	48.6	1.65	1.65	2.8	2.8	3.0	3.0	3.7	3.7	5.1	5.1	57.2	57.2
40x40x32	48.6	42.7	1.65	1.65	2.8	2.8	3.0	3.0	3.7	3.6	5.1	4.9	57.2	57.2
40x40x25	48.6	34.0	1.65	1.65	2.8	2.8	3.0	3.0	3.7	3.4	5.1	4.5	57.2	57.2
40x40x20	48.6	27.2	1.65	1.65	2.8	2.1	3.0	2.5	3.7	2.9	5.1	3.9	57.2	57.2
40x40x15	48.6	21.7	1.65	1.65	2.8	2.1	3.0	2.5	3.7	2.8	5.1	3.7	57.2	57.2
50	60.5	60.5	1.65	1.65	2.8	2.8	3.5	3.5	3.9	3.9	5.5	5.5	63.5	63.5
50x50x40	60.5	48.6	1.65	1.65	2.8	2.8	3.5	3.0	3.9	3.7	5.5	5.1	63.5	60.3
50x50x32	60.5	42.7	1.65	1.65	2.8	2.8	3.5	3.0	3.9	3.6	5.5	4.9	63.5	57.2
50x50x25	60.5	34.0	1.65	1.65	2.8	2.8	3.5	3.0	3.9	3.4	5.5	4.5	63.5	50.8
50x50x20	60.5	27.2	1.65	1.65	2.8	2.1	3.5	2.5	3.9	2.9	5.5	3.9	63.5	44.5
65	76.3	76.3	2.1	2.1	3.0	3.0	3.5	3.5	5.2	5.2	7.0	7.0	76.2	76.2
65x65x50	76.3	60.5	2.1	1.65	3.0	2.8	3.5	3.5	5.2	3.9	7.0	5.5	76.2	69.9
65x65x40	76.3	48.6	2.1	1.65	3.0	2.8	3.5	3.0	5.2	3.7	7.0	5.1	76.2	66.7
65x65x32	76.3	42.7	2.1	1.65	3.0	2.8	3.5	3.0	5.2	3.6	7.0	4.9	76.2	63.5
65x65x25	76.3	34.0	2.1	1.65	3.0	2.8	3.5	3.0	5.2	3.4	7.0	4.5	76.2	57.2
80	89.1	89.1	2.1	2.1	3.0	3.0	4.0	4.0	5.5	5.5	7.6	7.6	85.7	85.7
80x80x65	89.1	76.3	2.1	2.1	3.0	3.0	4.0	3.5	5.5	5.2	7.6	7.0	85.7	82.6
80x80x50	89.1	60.5	2.1	1.65	3.0	2.8	4.0	3.5	5.5	3.9	7.6	5.5	85.7	76.2
80x80x40	89.1	48.6	2.1	1.65	3.0	2.8	4.0	3.0	5.5	3.7	7.6	5.1	85.7	73.0
80x80x32	89.1	42.7	2.1	1.65	3.0	2.8	4.0	3.0	5.5	3.6	7.6	4.9	85.7	69.9
100	114.3	114.3	2.1	2.1	3.0	3.0	4.0	4.0	6.0	6.0	8.6	8.6	104.8	104.8
100x100x80	114.3	89.1	2.1	2.1	3.0	3.0	4.0	4.0	6.0	5.5	8.6	7.6	104.8	98.4
100x100x65	114.3	76.3	2.1	1.65	3.0	3.0	4.0	3.5	6.0	5.2	8.6	7.0	104.8	95.3
100x100x50	114.3	60.5	2.1	1.65	3.0	2.8	4.0	3.5	6.0	3.9	8.6	5.5	104.8	88.9
100x100x40	114.3	48.6	2.1	1.65	3.0	2.8	4.0	3.0	6.0	3.7	8.6	5.1	104.8	85.7
125	139.8	139.8	2.8	2.8	3.4	3.4	5.0	5.0	6.6	6.6	9.5	9.5	123.8	123.8
125x125x100	139.8	114.3	2.8	2.1	3.4	3.0	5.0	4.0	6.6	6.0	9.5	8.6	123.8	117.5
125x125x80	139.8	89.1	2.8	2.1	3.4	3.0	5.0	4.0	6.6	5.5	9.5	7.6	123.8	111.1
125x125x65	139.8	76.3	2.8	2.1	3.4	3.0	5.0	3.5	6.6	5.2	9.5	7.0	123.8	108.0
125x125x50	139.8	60.5	2.8	1.65	3.4	2.8	5.0	3.5	6.6	3.9	9.5	5.5	123.8	104.8
150	165.2	165.2	2.8	2.8	3.4	3.4	5.0	5.0	7.1	7.1	11.0	11.0	142.9	142.9
150x150x125	165.2	139.8	2.8	2.8	3.4	3.4	5.0	5.0	7.1	6.6	11.0	9.5	142.9	136.5
150x150x100	165.2	114.3	2.8	2.1	3.4	3.0	5.0	4.0	7.1	6.0	11.0	8.6	142.9	130.2
150x150x80	165.2	89.1	2.8	2.1	3.4	3.0	5.0	4.0	7.1	5.5	11.0	7.6	142.9	123.8
150x150x65	165.2	76.3	2.8	2.1	3.4	3.0	5.0	3.5	7.1	5.2	11.0	7.0	142.9	120.7

Unit : mm

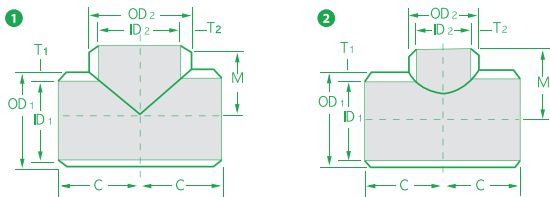


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- KS B 1543, KS B 1541, JIS B 2313

Tee

- 1 Straight (2)
- 2 Reducing (2)



Unit: mm														
Nominal Pipe Size	Outside Diameter		Wall Thickness T										Center to End	
			Sch 5s		Sch 10s		Sch 20s		Sch 40s		Sch 80s			
	OD1	OD2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	C	M
200	216.3	216.3	2.8	2.8	4.0	4.0	6.5	6.5	8.2	8.2	12.7	12.7	177.8	177.8
200x200x150	216.3	165.2	2.8	2.8	4.0	3.4	6.5	5.0	8.2	7.1	12.7	11.0	177.8	169.3
200x200x125	216.3	139.8	2.8	2.8	4.0	3.4	6.5	5.0	8.2	6.6	12.7	9.5	177.8	161.9
200x200x100	216.3	114.3	2.8	2.1	4.0	3.0	6.5	4.0	8.2	6.0	12.7	8.6	177.8	155.6
250	267.4	267.4	3.4	3.4	4.0	4.0	6.5	6.5	9.3	9.3	15.1	15.1	215.9	215.9
250x250x200	267.4	216.3	3.4	2.8	4.0	4.0	6.5	6.5	9.3	8.2	15.1	12.7	215.9	203.2
250x250x150	267.4	165.2	3.4	2.8	4.0	3.4	6.5	5.0	9.3	7.1	15.1	11.0	215.9	193.7
250x250x125	267.4	139.8	3.4	2.8	4.0	3.4	6.5	5.0	9.3	6.6	15.1	9.5	215.9	190.5
250x250x100	267.4	114.3	3.4	2.1	4.0	3.0	6.5	4.0	9.3	6.0	15.1	8.6	215.9	184.2
300	318.5	318.5	4.0	4.0	4.5	4.5	6.5	6.5	10.3	10.3	17.4	17.4	254.0	254.0
300x300x250	318.5	267.4	4.0	3.4	4.5	4.0	6.5	6.5	10.3	9.3	17.4	15.1	254.0	241.3
300x300x200	318.5	216.3	4.0	2.8	4.5	4.0	6.5	6.5	10.3	8.2	17.4	12.7	254.0	228.6
300x300x150	318.5	165.2	4.0	2.8	4.5	3.4	6.5	5.0	10.3	7.1	17.4	11.0	254.0	219.1
300x300x125	318.5	139.8	4.0	2.8	4.5	3.4	6.5	5.0	10.3	6.6	17.4	9.5	254.0	215.9
350	355.6	355.6	4.0	4.0	4.8	4.8	7.9	7.9	11.1	11.1	19.0	19.0	279.4	279.4
350x350x300	355.6	318.5	4.0	4.0	4.8	4.5	7.9	6.5	11.1	10.3	19.0	17.4	279.4	269.9
350x350x250	355.6	267.4	4.0	3.4	4.8	4.0	7.9	6.5	11.1	9.3	19.0	15.1	279.4	257.2
350x350x200	355.6	216.3	4.0	2.8	4.8	4.0	7.9	6.5	11.1	8.2	19.0	12.7	279.4	247.7
350x350x150	355.6	165.2	4.0	2.8	4.8	3.4	7.9	5.0	11.1	7.1	19.0	11.0	279.4	238.1
400	406.4	406.4	4.2	4.2	4.8	4.8	7.9	7.9	12.7	12.7	21.4	21.4	304.8	304.8
400x400x350	406.4	355.6	4.2	4.0	4.8	4.8	7.9	7.9	12.7	11.1	21.4	19.0	304.8	304.8
400x400x300	406.4	318.5	4.2	4.0	4.8	4.5	7.9	6.5	12.7	10.3	21.4	17.4	304.8	295.3
400x400x250	406.4	267.4	4.2	3.4	4.8	4.0	7.9	6.5	12.7	9.3	21.4	15.1	304.8	282.6
400x400x200	406.4	216.3	4.2	2.8	4.8	4.0	7.9	6.5	12.7	8.2	21.4	12.7	304.8	273.1
400x400x150	406.4	165.2	4.2	2.8	4.8	3.4	7.9	5.0	12.7	7.1	21.4	11.0	304.8	263.5
450	457.2	457.2	4.2	4.2	4.8	4.8	7.9	7.9	14.3	14.3	23.8	23.8	342.9	342.9
450x450x400	457.2	406.4	4.2	4.2	4.8	4.8	7.9	7.9	14.3	12.7	23.8	21.4	342.9	330.2
450x450x350	457.2	355.6	4.2	4.0	4.8	4.8	7.9	7.9	14.3	11.1	23.8	19.0	342.9	330.2
450x450x300	457.2	318.5	4.2	4.0	4.8	4.5	7.9	6.5	14.3	10.3	23.8	17.4	342.9	320.7
450x450x250	457.2	267.4	4.2	3.4	4.8	4.0	7.9	6.5	14.3	9.3	23.8	15.1	342.9	308.0
500	508.0	508.0	4.8	4.8	5.5	5.5	9.5	7.9	15.1	15.1	26.2	26.2	381.0	381.0
500x500x450	508.0	457.2	4.8	4.2	5.5	4.8	9.5	7.9	15.1	14.3	26.2	23.8	381.0	368.3
500x500x400	508.0	406.4	4.8	4.2	5.5	4.8	9.5	7.9	15.1	12.7	26.2	21.4	381.0	355.6
500x500x350	508.0	355.6	4.8	4.0	5.5	4.8	9.5	7.9	15.1	11.1	26.2	19.0	381.0	355.6
500x500x300	508.0	318.5	4.8	4.0	5.5	4.5	9.5	6.5	15.1	10.3	26.2	17.4	381.0	346.1
500x500x250	508.0	267.4	4.8	3.4	5.5	4.0	9.5	6.5	15.1	9.3	26.2	15.1	381.0	333.4
500x500x200	508.0	216.3	4.8	2.8	5.5	4.0	9.5	6.5	15.1	8.2	26.2	12.7	381.0	323.9
550	558.8	558.8	4.8	4.8	5.5	5.5	9.5	9.5	15.9	15.9	28.6	28.6	419.1	419.1
550x550x500	558.8	508.0	4.8	4.8	5.5	5.5	9.5	9.5	15.9	15.1	28.6	26.2	419.1	406.4
550x550x450	558.8	457.2	4.8	4.2	5.5	4.8	9.5	7.9	15.9	14.3	28.6	23.8	419.1	393.7
550x550x400	558.8	406.4	4.8	4.2	5.5	4.8	9.5	7.9	15.9	12.7	28.6	21.4	419.1	381.0
600	609.6	609.6	5.5	5.5	6.4	6.4	9.5	9.5	17.4	17.4	31.0	31.0	431.8	431.8
600x600x550	609.6	558.8	5.5	4.8	6.4	5.5	9.5	9.5	17.4	15.9	31.0	28.6	431.8	431.8
600x600x500	609.6	508.0	5.5	4.8	6.4	5.5	9.5	9.5	17.4	15.1	31.0	26.2	431.8	431.8
600x600x450	609.6	457.2	5.5	4.2	6.4	4.8	9.5	7.9	17.4	14.3	31.0	23.8	431.8	419.1
700	711.2	711.2	5.5	5.5	7.9	7.9	12.7	12.7	17.4	17.4	-	-	520.7	520.7
700x700x600	711.2	609.6	5.5	5.5	7.9	6.4	12.7	9.5	17.4	17.4	-	-	520.7	508.0

Unit : mm

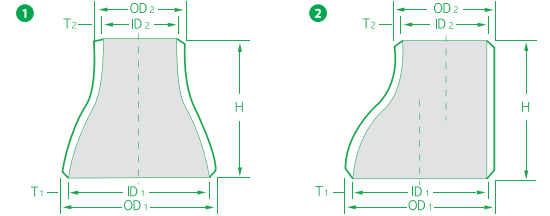


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- KS B 1543, KS B 1541, JIS B 2313

Reducer

- 1 Concentric (1)
- 2 Eccentric (1)



Unit : mm													
Nominal Pipe Size	Outside Diameter		Wall Thickness T										End To End (H)
			Sch 5s		Sch 10s		Sch 20s		Sch 40s		Sch 80s		
	OD1	OD2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	
20×15	27.2	21.7	1.65	1.65	2.1	2.1	2.5	2.5	2.9	2.8	3.9	3.7	38.1
25×20	34.0	27.2	1.65	1.65	2.8	2.1	3.0	2.5	3.4	2.9	4.5	3.9	50.8
25×15	34.0	21.7	1.65	1.65	2.8	2.1	3.0	2.5	3.4	2.8	4.5	3.7	50.8
32×25	42.7	34.0	1.65	1.65	2.8	2.8	3.0	3.0	3.6	3.4	4.9	4.5	50.8
32×20	42.7	27.2	1.65	1.65	2.8	2.1	3.0	2.5	3.6	2.9	4.9	3.9	50.8
32×15	42.7	21.7	1.65	1.65	2.8	2.1	3.0	2.5	3.6	2.8	4.9	3.7	50.8
40×32	48.6	42.7	1.65	1.65	2.8	2.8	3.0	3.0	3.7	3.6	5.1	4.9	63.5
40×25	48.6	34.0	1.65	1.65	2.8	2.8	3.0	3.0	3.7	3.4	5.1	4.5	63.5
40×20	48.6	27.2	1.65	1.65	2.8	2.1	3.0	2.5	3.7	2.9	5.1	3.9	63.5
40×15	48.6	21.7	1.65	1.65	2.8	2.1	3.0	2.5	3.7	2.8	5.1	3.7	63.5
50×40	60.5	48.6	1.65	1.65	2.8	2.8	3.5	3.0	3.9	3.7	5.5	5.1	76.2
50×32	60.5	42.7	1.65	1.65	2.8	2.8	3.5	3.0	3.9	3.6	5.5	4.9	76.2
50×25	60.5	34.0	1.65	1.65	2.8	2.8	3.5	3.0	3.9	3.4	5.5	4.5	76.2
50×20	60.5	27.2	1.65	1.65	2.8	2.1	3.5	2.5	3.9	2.9	5.5	3.9	76.2
65×50	76.3	60.5	2.1	1.65	3.0	2.8	3.5	3.5	5.2	3.9	7.0	5.5	88.9
65×40	76.3	48.6	2.1	1.65	3.0	2.8	3.5	3.0	5.2	3.7	7.0	5.1	88.9
65×32	76.3	42.7	2.1	1.65	3.0	2.8	3.5	3.0	5.2	3.6	7.0	4.9	88.9
65×25	76.3	34.0	2.1	1.65	3.0	2.8	3.5	3.0	5.2	3.4	7.0	4.5	88.9
80×65	89.1	76.3	2.1	2.1	3.0	3.0	4.0	3.5	5.5	5.2	7.6	7.0	88.9
80×50	89.1	60.5	2.1	1.65	3.0	2.8	4.0	3.5	5.5	3.9	7.6	5.5	88.9
80×40	89.1	48.6	2.1	1.65	3.0	2.8	4.0	3.0	5.5	3.7	7.6	5.1	88.9
80×32	89.1	42.7	2.1	1.65	3.0	2.8	4.0	3.0	5.5	3.6	7.6	4.9	88.9
100×80	114.3	89.1	2.1	2.1	3.0	3.0	4.0	4.0	6.0	5.5	8.6	7.6	101.6
100×65	114.3	76.3	2.1	2.1	3.0	3.0	4.0	3.5	6.0	5.2	8.6	7.0	101.6
100×50	114.3	60.5	2.1	1.65	3.0	2.8	4.0	3.5	6.0	3.9	8.6	5.5	101.6
100×40	114.3	48.6	2.1	1.65	3.0	2.8	4.0	3.0	6.0	3.7	8.6	5.1	101.6
125×100	139.8	114.3	2.8	2.1	3.4	3.0	5.0	4.0	6.6	6.0	9.5	8.6	127.0
125×80	139.8	89.1	2.8	2.1	3.4	3.0	5.0	4.0	6.6	5.5	9.5	7.6	127.0
125×65	139.8	76.3	2.8	2.1	3.4	3.0	5.0	3.5	6.6	5.2	9.5	7.0	127.0
125×50	139.8	60.5	2.8	1.65	3.4	2.8	5.0	3.5	6.6	3.9	9.5	5.5	127.0
150×125	165.2	139.8	2.8	2.8	3.4	3.4	5.0	5.0	7.1	6.6	11.0	9.5	139.7
150×100	165.2	114.3	2.8	2.1	3.4	3.0	5.0	4.0	7.1	6.0	11.0	8.6	139.7
150×80	165.2	89.1	2.8	2.1	3.4	3.0	5.0	4.0	7.1	5.5	11.0	7.6	139.7
150×65	165.2	76.3	2.8	2.1	3.4	3.0	5.0	3.5	7.1	5.2	11.0	7.0	139.7

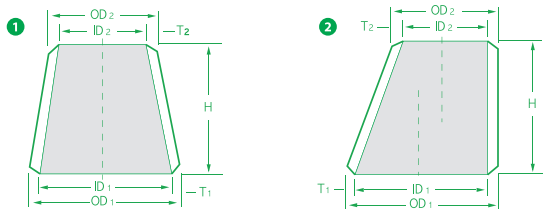


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- KS B 1543, KS B 1541, JIS B 2313

Reducer

- 1 Concentric (2)
- 2 Eccentric (2)



Unit: mm													
Nominal Pipe Size	Outside Diameter		Wall Thickness T										End To End (H)
			Sch 5s		Sch 10s		Sch 20s		Sch 40s		Sch 80s		
	OD1	OD2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	
200x150	216.3	165.2	2.8	2.8	4.0	3.4	6.5	5.0	8.2	7.1	12.7	11.0	152.4
200x125	216.3	139.8	2.8	2.8	4.0	3.4	6.5	5.0	8.2	6.6	12.7	9.5	152.4
200x100	216.3	114.3	2.8	2.1	4.0	3.0	6.5	4.0	8.2	6.0	12.7	8.6	152.4
250x200	267.4	216.3	3.4	2.8	4.0	4.0	6.5	6.5	9.3	8.2	15.1	12.7	177.8
250x150	267.4	165.2	3.4	2.8	4.0	3.4	6.5	5.0	9.3	7.1	15.1	11.0	177.8
250x125	267.4	139.8	3.4	2.8	4.0	3.4	6.5	5.0	9.3	6.6	15.1	9.5	177.8
250x100	267.4	114.3	3.4	2.1	4.0	3.0	6.5	4.0	9.3	6.0	15.1	8.6	177.8
300x250	318.5	267.4	4.0	3.4	4.5	4.0	6.5	6.5	10.3	9.3	17.4	15.1	203.2
300x200	318.5	216.3	4.0	2.8	4.5	4.0	6.5	6.5	10.3	8.2	17.4	12.7	203.2
300x150	318.5	165.2	4.0	2.8	4.5	3.4	6.5	5.0	10.3	7.1	17.4	11.0	203.2
300x125	318.5	139.8	4.0	2.8	4.5	3.4	6.5	5.0	10.3	6.6	17.4	9.5	203.2
350x300	355.6	318.5	4.0	4.0	4.8	4.5	7.9	6.5	11.1	10.3	19.0	17.4	330.2
350x250	355.6	267.4	4.0	3.4	4.8	4.0	7.9	6.5	11.1	9.3	19.0	15.1	330.2
350x200	355.6	216.3	4.0	2.8	4.8	4.0	7.9	6.5	11.1	8.2	19.0	12.7	330.2
350x150	355.6	165.2	4.0	2.8	4.8	3.4	7.9	5.0	11.1	7.1	19.0	11.0	330.2
400x350	406.4	355.6	4.2	4.0	4.8	4.8	7.9	7.9	12.7	11.1	21.4	19.0	355.6
400x300	406.4	318.5	4.2	4.0	4.8	4.5	7.9	6.5	12.7	10.3	21.4	17.4	355.6
400x250	406.4	267.4	4.2	3.4	4.8	4.0	7.9	6.5	12.7	9.3	21.4	15.1	355.6
400x200	406.4	216.3	4.2	2.8	4.8	4.0	7.9	6.5	12.7	8.2	21.4	12.7	355.6
450x400	457.2	406.4	4.2	4.2	4.8	4.8	7.9	7.9	14.3	12.7	23.8	21.4	381.0
450x350	457.2	355.6	4.2	4.0	4.8	4.8	7.9	7.9	14.3	11.1	23.8	19.0	381.0
450x300	457.2	318.5	4.2	4.0	4.8	4.5	7.9	6.5	14.3	10.3	23.8	17.4	381.0
450x250	457.2	267.4	4.2	3.4	4.8	4.0	7.9	6.5	14.3	9.3	23.8	15.1	381.0
500x450	508.0	457.2	4.8	4.2	5.5	4.8	9.5	7.9	15.1	14.3	26.2	23.8	508.0
500x400	508.0	406.4	4.8	4.2	5.5	4.8	9.5	7.9	15.1	12.7	26.2	21.4	508.0
500x350	508.0	355.6	4.8	4.0	5.5	4.8	9.5	7.9	15.1	11.1	26.2	19.0	508.0
500x300	508.0	318.5	4.8	4.0	5.5	4.5	9.5	6.5	15.1	10.3	26.2	17.4	508.0
550x500	558.8	508.0	4.8	4.8	5.5	5.5	9.5	9.5	15.9	15.1	28.6	26.2	508.0
550x450	558.8	457.2	4.8	4.2	5.5	4.8	9.5	7.9	15.9	14.3	28.6	23.8	508.0
550x400	558.8	406.4	4.8	4.2	5.5	4.8	9.5	7.9	15.9	12.7	28.6	21.4	508.0
550x350	558.8	355.6	4.8	4.0	5.5	4.8	9.5	7.9	15.9	11.1	28.6	19.0	508.0
600x550	609.6	558.8	5.5	4.8	6.4	5.5	9.5	9.5	17.4	15.9	31.0	28.6	508.0
600x500	609.6	508.0	5.5	4.8	6.4	5.5	9.5	9.5	17.4	15.1	31.0	26.2	508.0
600x450	609.6	457.2	5.5	4.2	6.4	4.8	9.5	7.9	17.4	14.3	31.0	23.8	508.0
600x400	609.6	406.4	5.5	4.2	6.4	4.8	9.5	7.9	17.4	12.7	31.0	21.4	508.0
650x600	660.4	609.6	5.5	5.5	7.9	6.4	12.7	9.5	17.4	17.4	-	-	609.6
650x550	660.4	558.8	5.5	5.0	7.9	5.5	12.7	9.5	17.4	15.9	-	-	609.6
650x500	660.4	508.0	5.5	5.0	7.9	5.5	12.7	9.5	17.4	15.1	-	-	609.6
650x450	660.4	457.2	5.5	4.5	7.9	5.0	12.7	7.9	17.4	15.3	-	-	609.6
700x650	711.2	660.4	5.5	5.5	7.9	7.9	12.7	12.7	17.4	17.4	-	-	609.6
700x600	711.2	609.6	5.5	5.5	7.9	6.4	12.7	9.5	17.4	17.4	-	-	609.6
700x550	711.2	558.8	5.5	5.0	7.9	5.5	12.7	9.5	17.4	15.9	-	-	609.6
700x500	711.2	508.0	5.5	5.0	7.9	5.5	12.7	9.5	17.4	15.1	-	-	609.6
750x700	762.0	711.2	6.4	5.5	7.9	7.9	12.7	12.7	17.4	17.4	-	-	609.6
750x650	762.0	660.4	6.4	5.5	7.9	7.9	12.7	12.7	17.4	17.4	-	-	609.6
750x600	762.0	609.6	6.4	5.5	7.9	6.4	12.7	9.5	17.4	17.4	-	-	609.6
750x550	762.0	558.8	6.4	4.8	7.9	5.5	12.7	9.5	17.4	15.9	-	-	609.6

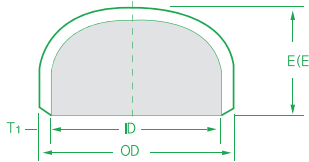
Unit : mm



STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- KS B 1541, JIS B 2313

Cap



Nominal Pipe Size	Outside Diameter (O.D)	Sch 5s		Sch 10s		Sch 20s		Sch 40s		Sch 80s		Back to Face		Limited wall Thick- ness for“T”
		I-D	T	I-D	T	I-D	T	I-D	T	I-D	T	E	E1	
15	21.7	18.4	1.65	17.5	2.1	16.7	2.5	16.1	2.8	14.3	3.7	25.4	-	-
20	27.2	23.9	1.65	23.0	2.1	22.2	2.5	21.4	2.9	19.4	3.9	25.4	-	-
25	34.0	30.7	1.65	28.4	2.8	28.0	3.0	27.2	3.4	25.0	4.5	38.1	-	-
32	42.7	39.4	1.65	37.1	2.8	36.7	3.0	35.5	3.6	32.9	4.9	38.1	-	-
40	48.6	45.3	1.65	43.0	2.8	42.6	3.0	41.2	3.7	38.4	5.1	38.1	-	-
50	60.5	57.2	1.65	54.9	2.8	53.5	3.5	52.7	3.9	49.5	5.5	38.1	44.5	5.5
65	76.3	72.1	2.10	70.3	3.0	69.3	3.5	65.9	5.2	62.3	7.0	38.1	50.8	7.0
80	89.1	84.9	2.10	83.1	3.0	81.1	4.0	78.1	5.5	73.9	7.6	50.8	63.5	7.6
90	101.6	97.4	2.10	95.6	3.0	93.6	4.0	90.2	5.7	85.4	8.1	63.5	76.2	8.1
100	114.3	110.1	2.10	108.3	3.0	106.3	4.0	102.3	6.0	97.1	8.6	63.5	76.2	8.6
125	139.8	134.2	2.80	133.0	3.4	129.8	5.0	126.6	6.6	120.8	9.5	76.2	88.9	9.5
150	165.2	159.6	2.80	158.4	3.4	155.2	5.0	151.0	7.1	143.2	11.0	88.9	101.6	11.0
200	216.3	210.7	2.80	208.3	4.0	203.3	6.5	199.9	8.2	190.9	12.7	101.6	127.0	12.7
250	267.4	260.6	3.40	259.4	4.0	254.4	6.5	248.8	9.3	237.2	15.1	127.0	152.4	12.7
300	318.5	310.5	4.00	309.5	4.5	305.5	6.5	297.9	10.3	283.7	17.4	152.4	177.8	12.7
350	355.6	347.6	4.00	346.0	4.8	339.8	7.9	33.4	11.1	317.6	19.0	165.1	190.5	12.7
400	406.4	398.0	4.20	396.8	4.8	390.6	7.9	381.0	12.7	363.6	21.4	177.8	203.5	12.7
450	457.2	448.8	4.20	447.6	4.8	441.4	7.9	428.6	14.3	409.6	23.8	203.2	228.6	12.7
500	508.0	498.4	4.80	497.0	5.5	492.2	9.5	477.8	15.1	455.6	26.2	228.6	254.0	12.7

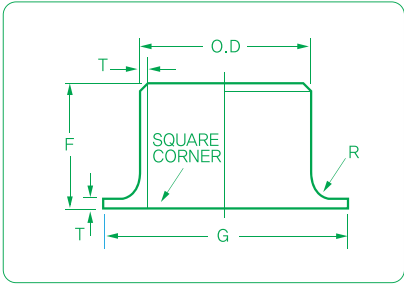
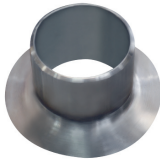
Unit : mm



STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- JIS B2321

STUB ENDS



Unit : mm

Unit : Kg

Nominal Pipe Size	Outside Diameter (O.D)	Wall Thickness(T)			G		F	R (Max)	Weight		
		SCH10S	SCH20S	SCH40	5K	10K			SCH10S	SCH20S	SCH40
1/2	21.7	2.1	2.5	2.8	44	51	30	3	0.06	0.07	0.08
3/4	27.2	2.1	2.5	2.9	49	56	30	3	0.07	0.09	0.10
1	34.0	2.8	3.0	3.4	59	67	50	3	0.17	0.16	0.21
1 1/4	42.7	2.8	3.0	3.6	70	76	50	4	0.22	0.23	0.28
1 1/2	48.6	2.8	3.0	3.7	75	81	50	4	0.24	0.26	0.32
2	60.5	2.8	3.5	3.9	85	96	50	4	0.31	0.38	0.42
2 1/2	76.3	3.0	3.5	5.2	110	116	50	5	0.43	0.50	0.78
3	89.1	3.0	4.0	5.5	121	126	50	5	0.48	0.64	0.87
4	114.3	3.0	4.0	6.0	141	151	50	5	0.61	0.82	1.20
5	139.8	3.4	5.0	6.6	176	182	50	6	0.88	1.28	1.68
6	165.2	3.4	5.0	7.1	206	212	50	6	1.08	1.57	2.21
8	216.3	4.0	6.5	8.2	252	262	65	6	1.94	3.12	3.93
10	267.4	4.0	6.5	9.3	317	324	65	6	2.53	4.08	5.80
12	318.5	4.5	6.5	10.3	360	368	65	9	3.25	4.67	7.34
14	355.6	4.8	7.9	11.1	403	413	150	9	7.65	12.60	17.70
16	406.4	4.8	7.9	12.7	463	475	150	9	9.05	14.90	24.00
18	457.2	4.8	7.9	14.3	523	530	150	9	10.30	17.00	30.70
20	508.0	5.5	7.9	15.1	573	585	150	9	13.30	22.90	36.40
22	558.8	5.5	9.5	15.9	630	640	150	9	14.80	25.50	40.60
24	609.6	6.4	9.5	17.5	680	690	150	9	16.70	27.70	50.80

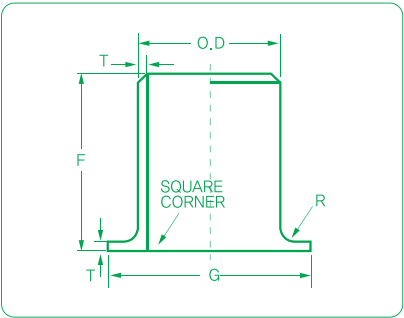
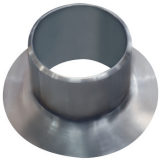
Minimum lap thickness shall not be less than mominal wall thickness dimensions conform to DOO SUNG Standards.



STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- JPI-78-15-70

STUB ENDS



Unit : mm

Unit : Kg

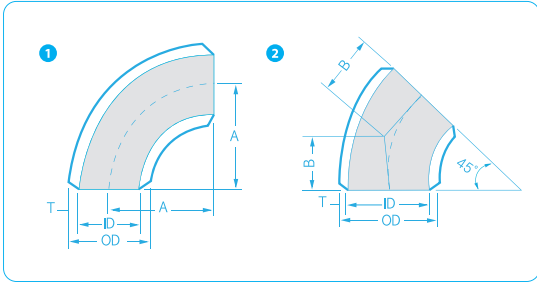
Nominal Pipe Size	Outside Diameter (O.D)	Wall Thickness(T)			G	F	R (Max)	Weight		
		SCH10S	SCH20S	SCH40S				SCH10S	SCH20S	SCH40S
1/2	21.7	2.1	2.5	2.8	35	50	3.2	0.08	0.09	0.11
3/4	27.2	2.1	2.5	2.9	43	50	3.2	0.09	0.10	0.15
1	34.0	2.8	3.0	3.4	51	50	3.2	0.14	0.15	0.19
1 1/4	42.7	2.8	3.0	3.6	64	50	4.8	0.21	0.22	0.26
1 1/2	48.6	2.8	3.0	3.7	73	50	6.4	0.25	0.27	0.38
2	60.5	2.8	3.5	3.9	92	65	7.9	0.36	0.47	0.54
2 1/2	76.3	3.0	3.5	5.2	105	65	7.9	0.47	0.57	0.80z
3	89.1	3.0	4.0	5.5	127	65	9.5	0.64	0.85	1.14
4	114.3	3.0	4.0	6.0	157	75	11.1	0.98	1.31	1.82
5	139.8	3.4	5.0	6.6	186	75	11.1	1.24	1.82	2.54
6	165.2	3.4	5.0	7.1	216	90	12.7	1.95	2.87	3.82
8	216.3	4.0	6.5	8.2	270	100	12.7	3.11	5.05	5.90
10	267.4	4.0	6.5	9.3	324	125	12.7	4.87	7.92	10.44
12	318.5	4.5	6.5	10.3	381	150	12.7	7.12	11.60	15.00
14	355.6	4.8	7.9	11.1	413	150	12.7	7.65	12.60	17.70
16	406.4	4.8	7.9	12.7	470	150	12.7	9.00	14.30	23.70
18	457.2	4.8	7.9	14.3	533	150	12.7	11.00	17.50	31.50
20	508.0	5.5	7.9	15.1	584	150	12.7	13.30	22.90	36.40
22	558.8	5.5	9.5	15.9	641	150	12.7	14.80	25.50	40.60
24	609.6	6.4	9.5	17.5	692	150	12.7	19.10	28.00	51.20



STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- ANSI B 16.9

- 90° Elbow
(Long, Short)
- 45° Elbow
(Long)



Nominal Pipe Size	Outside Diameter (O.D)	Center to End			Sch 5s		Sch 10s		Sch 40s		Sch 80s	
		Long		Short								
		A	B	A	T	ID	T	ID	T	ID	T	ID
1/2	0.840	1.50	0.62	-	0.065	0.710	0.083	0.674	0.109	0.622	0.147	0.546
3/4	1.050	1.50	0.62	-	0.065	0.920	0.083	0.884	0.113	0.824	0.154	0.742
1	1.315	1.50	0.88	1.00	0.065	1.185	0.109	1.097	0.133	1.049	0.179	0.957
1 1/4	1.660	1.88	1.00	1.25	0.065	1.530	0.109	1.442	0.140	1.380	0.191	1.278
1 1/2	1.900	2.25	1.12	1.50	0.065	1.770	0.109	1.682	0.145	1.610	0.200	1.500
2	2.375	3.00	1.38	2.00	0.065	2.245	0.109	2.157	0.154	2.067	0.218	1.939
2 1/2	2.875	3.75	1.75	2.50	0.083	2.709	0.120	2.635	0.203	2.469	0.276	2.323
3	3.500	4.50	2.00	3.00	0.083	3.334	0.120	3.260	0.216	3.068	0.300	2.900
3 1/2	4.000	5.25	2.25	3.50	0.083	3.834	0.120	3.760	0.226	3.548	0.318	3.364
4	4.500	6.00	2.50	4.00	0.083	4.417	0.120	4.260	0.237	4.026	0.337	3.826
5	5.563	7.50	3.12	5.00	0.109	5.345	0.134	5.295	0.258	5.047	0.375	4.813
6	6.625	9.00	3.75	6.00	0.109	6.407	0.134	6.375	0.280	6.065	0.432	5.716
8	8.625	12.00	5.00	8.00	0.109	8.407	0.148	8.329	0.322	7.981	0.500	7.625
10	10.750	15.00	6.25	10.00	0.134	10.482	0.165	10.420	0.365	10.020	0.500	9.750
12	12.750	18.00	7.50	12.00	0.156	12.438	0.180	12.390	0.375	12.000	0.500	11.750
14	14.000	21.00	8.75	14.00	0.156	13.688	0.188	13.624	-	-	-	-
16	16.000	24.00	10.00	16.00	0.165	15.670	0.188	15.624	-	-	-	-
18	18.000	27.00	11.25	18.00	0.165	17.670	0.188	17.624	-	-	-	-
20	20.000	30.00	12.50	20.00	0.188	19.624	0.218	19.564	-	-	-	-
22	22.000	33.00	13.50	22.00	0.188	21.624	0.218	21.564	-	-	-	-
24	24.000	36.00	15.00	24.00	0.218	23.564	0.250	23.500	-	-	-	-
30	30.000	45.00	18.50	30.00	0.250	29.500	0.312	29.376	-	-	-	-

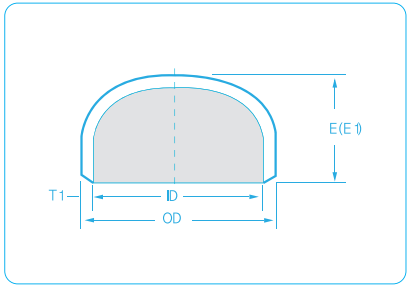
Unit : inch



STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- ANSI B 16.9

Cap



Nominal Pipe Size	Outside Diameter (O.D)	Wall Thickness T				Length E	Limited wall Thickness for "T"	Length E1
		5s	10s	40s	80s			
1/2	0.840	0.065	0.083	0.109	0.147	1.00	0.18	1.00
3/4	1.050	0.065	0.083	0.113	0.154	1.00	0.15	1.00
1	1.315	0.065	0.109	0.133	0.179	1.50	0.18	1.50
1 1/4	1.660	0.065	0.109	0.140	0.191	1.50	0.19	1.50
1 1/2	1.900	0.065	0.109	0.145	0.200	1.50	0.20	1.50
2	2.375	0.065	0.109	0.154	0.218	1.50	0.22	1.75
2 1/2	2.875	0.083	0.120	0.203	0.276	1.50	0.28	2.00
3	3.500	0.083	0.120	0.216	0.300	2.00	0.30	2.50
3 1/2	4.000	0.083	0.120	0.226	0.318	2.50	0.32	3.00
4	4.500	0.083	0.120	0.237	0.337	2.50	0.34	3.00
5	5.563	0.109	0.134	0.258	0.375	3.00	0.38	3.50
6	6.625	0.109	0.134	0.280	0.432	3.50	0.43	4.00
8	8.625	0.109	0.148	0.322	0.500	4.00	0.50	5.00
10	10.750	0.134	0.165	0.365	0.500	5.00	0.50	6.00
12	12.750	0.156	0.180	0.375	0.500	6.00	0.50	7.00
14	14.000	0.156	0.188	-	-	6.50	0.50	7.50
16	16.000	0.165	0.188	-	-	7.00	0.50	8.00
18	18.000	0.165	0.188	-	-	8.00	0.50	9.00
20	20.000	0.188	0.218	-	-	9.00	0.50	10.00
22	22.000	0.188	0.218	-	-	10.00	0.50	10.00
24	24.000	0.218	0.250	-	-	10.50	0.50	12.00
30	30.000	0.250	0.312	-	-	10.50	-	-

Unit : inch

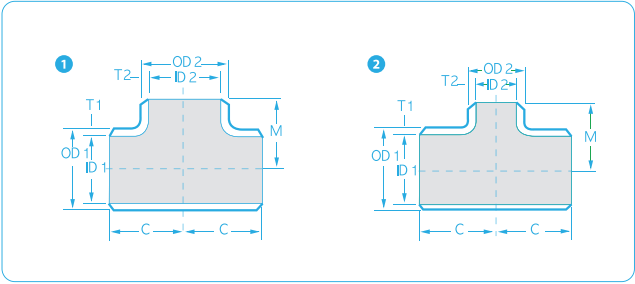


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- ANSI B 16.9

Tee

- 1 Straight (1)
- 2 Reducing (1)



Unit : inch

Nominal Pipe Size	Outside Diameter		Center to End		Sch 5s		Sch 10s		Sch 40s		Sch 80s	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2	T1	T2
1/2 X 1/2 X 1/2	0.840	0.840	1.00	1.00	0.065	0.065	0.083	0.083	0.109	0.109	0.147	0.147
1/2 X 1/2 X 3/8	0.840	0.675	1.00	1.00	-	-	0.083	0.065	0.109	0.091	0.147	0.126
1/2 X 1/2 X 1/4	0.840	0.540	1.00	1.00	-	-	0.083	0.065	0.109	0.088	0.147	0.119
3/4 X 3/4 X 3/4	1.050	1.050	1.12	1.12	0.065	0.065	0.083	0.083	0.113	0.113	0.154	0.154
3/4 X 3/4 X 1/2	1.050	0.840	1.12	1.12	0.065	0.065	0.083	0.083	0.113	0.109	0.154	0.147
3/4 X 3/4 X 3/8	1.050	0.675	1.12	1.12	-	-	0.083	0.065	0.113	0.091	0.154	0.126
1 X 1 X 1	1.315	1.315	1.50	1.50	0.065	0.065	0.109	0.109	0.113	0.133	0.179	0.179
1 X 1 X 3/4	1.315	1.050	1.50	1.50	0.065	0.065	0.109	0.083	0.113	0.113	0.179	0.154
1 X 1 X 1/2	1.315	0.840	1.50	1.50	0.065	0.065	0.109	0.083	0.113	0.109	0.179	0.147
1 1/4 X 1 1/4 X 1 1/4	1.660	1.660	1.88	1.88	0.065	0.065	0.109	0.109	0.140	0.140	0.191	0.191
1 1/4 X 1 1/4 X 1	1.660	1.315	1.88	1.88	0.065	0.065	0.109	0.109	0.140	0.133	0.191	0.179
1 1/4 X 1 1/4 X 3/4	1.660	1.050	1.88	1.88	0.065	0.065	0.109	0.083	0.140	0.113	0.191	0.154
1 1/4 X 1 1/4 X 1/2	1.660	0.840	1.88	1.88	0.065	0.065	0.109	0.083	0.140	0.109	0.191	0.147
1 1/2 X 1 1/2 X 1 1/2	1.900	1.900	2.25	2.55	0.065	0.065	0.109	0.109	0.145	0.145	0.200	0.200
1 1/2 X 1 1/2 X 1 1/4	1.900	1.660	2.25	2.55	0.065	0.065	0.109	0.109	0.145	0.140	0.200	0.191
1 1/2 X 1 1/2 X 1	1.900	1.315	2.25	2.55	0.065	0.065	0.109	0.109	0.145	0.133	0.200	0.179
1 1/2 X 1 1/2 X 3/4	1.900	1.050	2.25	2.55	0.065	0.065	0.109	0.083	0.145	0.113	0.200	0.154
1 1/2 X 1 1/2 X 1/2	1.900	0.840	2.25	2.55	0.065	0.065	0.109	0.083	0.145	0.109	0.200	0.147
2 X 2 X 2	2.375	2.375	2.50	2.50	0.065	0.065	0.109	0.109	0.154	0.154	0.218	0.218
2 X 2 X 1 1/2	2.375	1.900	2.50	2.38	0.065	0.065	0.109	0.109	0.154	0.145	0.218	0.200
2 X 2 X 1 1/4	2.375	1.660	2.50	2.25	0.065	0.065	0.109	0.109	0.154	0.140	0.218	0.191
2 X 2 X 1	2.375	1.315	2.50	2.00	0.065	0.065	0.109	0.109	0.154	0.133	0.218	0.179
2 X 2 X 3/4	2.375	1.050	2.50	1.75	0.065	0.065	0.109	0.083	0.154	0.113	0.218	0.154
2 1/2 X 2 1/2 X 2 1/2	2.875	2.875	3.00	3.00	0.083	0.083	0.120	0.120	0.203	0.203	0.276	0.276
2 1/2 X 2 1/2 X 2	2.875	2.375	3.00	2.75	0.083	0.065	0.120	0.109	0.203	0.154	0.276	0.218
2 1/2 X 2 1/2 X 1 1/2	2.875	1.900	3.00	2.62	0.083	0.065	0.120	0.109	0.203	0.145	0.276	0.200
2 1/2 X 2 1/2 X 1 1/4	2.875	1.660	3.00	2.50	0.083	0.065	0.120	0.109	0.203	0.140	0.276	0.191
2 1/2 X 2 1/2 X 1	2.875	1.315	3.00	2.25	0.083	0.065	0.120	0.109	0.203	0.133	0.276	0.179
3 X 3 X 3	3.500	3.500	3.38	3.38	0.083	0.083	0.120	0.120	0.216	0.216	0.300	0.300
3 X 3 X 2 1/2	3.500	2.875	3.38	3.25	0.083	0.083	0.120	0.120	0.216	0.203	0.300	0.276
3 X 3 X 2	3.500	2.375	3.38	3.00	0.083	0.065	0.120	0.109	0.216	0.154	0.300	0.218
3 X 3 X 1 1/2	3.500	1.900	3.38	2.88	0.083	0.065	0.120	0.109	0.216	0.145	0.300	0.200
3 X 3 X 1 1/4	3.500	1.660	3.38	2.75	0.083	0.065	0.120	0.109	0.216	0.140	0.300	0.191
3 1/2 X 3 1/2 X 3 1/2	4.000	4.000	3.75	3.75	0.083	0.083	0.120	0.120	0.226	0.226	0.318	0.318
3 1/2 X 3 1/2 X 3	4.000	3.500	3.75	3.62	0.083	0.083	0.120	0.120	0.226	0.216	0.318	0.300
3 1/2 X 3 1/2 X 2 1/2	4.000	2.875	3.75	3.50	0.083	0.083	0.120	0.120	0.226	0.203	0.318	0.276
3 1/2 X 3 1/2 X 2	4.000	2.375	3.75	3.25	0.083	0.065	0.120	0.109	0.226	0.154	0.318	0.218
3 1/2 X 3 1/2 X 1 1/2	4.000	1.900	3.75	3.12	0.083	0.065	0.120	0.109	0.226	0.145	0.318	0.200

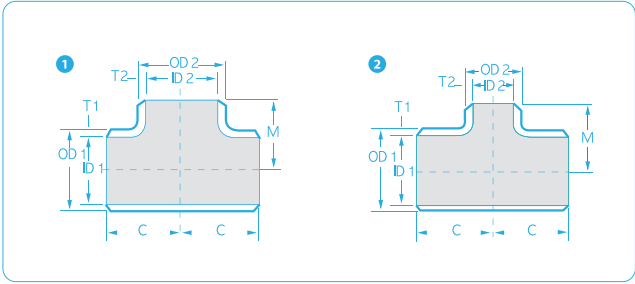


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- ANSI B 16.9

Tee

- 1 Straight (1)
- 2 Reducing (1)



Unit : inch

Nominal Pipe Size	Outside Diameter		Center to End		Sch 5s		Sch 10s		Sch 40s		Sch 80s	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2	T1	T2
4x4 X 4	4.500	4.500	4.12	4.12	0.083	0.083	0.120	0.120	0.237	0.237	0.337	0.337
4x4 X 3 1/3	4.500	4.000	4.12	4.00	0.083	0.083	0.120	0.120	0.237	0.226	0.337	0.318
4x4 X 3	4.500	3.500	4.12	3.88	0.083	0.083	0.120	0.120	0.237	0.216	0.337	0.300
4x4 X 2 1/2	4.500	2.875	4.12	3.75	0.083	0.083	0.120	0.120	0.237	0.203	0.337	0.276
4x4 X 2	4.500	2.375	4.12	3.50	0.083	0.065	0.120	0.109	0.237	0.154	0.337	0.218
4x4 X 1 1/2	4.500	1.900	4.12	3.38	0.083	0.065	0.120	0.109	0.237	0.145	0.337	0.200
5x5 X 5	5.563	5.563	4.88	4.88	0.109	0.109	0.134	0.134	0.258	0.258	0.375	0.375
5x5 X 4	5.563	4.500	4.88	4.62	0.109	0.083	0.134	0.120	0.258	0.237	0.375	0.337
5x5 X 3 1/2	5.563	4.000	4.88	4.50	0.109	0.083	0.134	0.120	0.258	0.226	0.375	0.318
5x5 X 3	5.563	3.500	4.88	4.38	0.109	0.083	0.134	0.120	0.258	0.216	0.375	0.300
5x5 X 2 1/2	5.563	2.875	4.88	4.25	0.109	0.083	0.134	0.120	0.258	0.203	0.375	0.276
5x5 X 2	5.563	2.375	4.88	4.12	0.109	0.065	0.134	0.109	0.258	0.154	0.375	0.218
6x6 X 6	6.625	6.625	5.62	5.62	0.109	0.109	0.134	0.134	0.280	0.280	0.432	0.432
6x6 X 5	6.625	5.563	5.62	5.38	0.109	0.109	0.134	0.134	0.280	0.258	0.432	0.375
6x6 X 4	6.625	4.500	5.62	5.12	0.109	0.083	0.134	0.120	0.280	0.237	0.432	0.337
6x6 X 3 1/2	6.625	4.000	5.62	5.00	0.109	0.083	0.134	0.120	0.280	0.226	0.432	0.318
6x6 X 3	6.625	3.500	5.62	4.88	0.109	0.083	0.134	0.120	0.280	0.216	0.432	0.300
6x6 X 2 1/2	6.625	2.875	5.62	4.75	0.109	0.083	0.134	0.120	0.280	0.203	0.432	0.276
8x8 X 8	8.625	8.625	7.00	7.00	0.109	0.109	0.148	0.148	0.322	0.322	0.500	0.500
8x8 X 6	8.625	6.625	7.00	6.62	0.109	0.109	0.148	0.134	0.322	0.280	0.500	0.432
8x8 X 5	8.625	5.563	7.00	6.38	0.109	0.109	0.148	0.134	0.322	0.258	0.500	0.375
8x8 X 4	8.625	4.500	7.00	6.12	0.109	0.083	0.148	0.120	0.322	0.237	0.500	0.337
8x8 X 3 1/2	8.625	4.000	7.00	6.00	0.109	0.083	0.148	0.120	0.322	0.226	0.500	0.318
10x10x10	10.750	10.750	8.50	8.50	0.134	0.134	0.165	0.165	0.365	0.365	0.500	0.500
10x10x 8	10.750	8.625	8.50	8.00	0.134	0.109	0.165	0.148	0.365	0.322	0.500	0.500
10x10x 6	10.750	6.625	8.50	7.62	0.134	0.109	0.165	0.134	0.365	0.280	0.500	0.432
10x10x 5	10.750	5.563	8.50	7.50	0.134	0.109	0.165	0.134	0.365	0.258	0.500	0.375
10x10x 4	10.750	4.500	8.50	7.25	0.134	0.083	0.165	0.120	0.365	0.237	0.500	0.337
12x12x12	12.750	12.750	10.00	10.00	0.156	0.156	0.180	0.180	0.375	0.375	0.500	0.500
12x12x10	12.750	10.750	10.00	9.50	0.156	0.134	0.180	0.165	0.375	0.365	0.500	0.500
12x12x 8	12.750	8.625	10.00	9.00	0.156	0.109	0.180	0.148	0.375	0.322	0.500	0.500
12x12x 6	12.750	6.625	10.00	8.62	0.156	0.109	0.180	0.134	0.375	0.280	0.500	0.432
12x12x 5	12.750	5.563	10.00	8.50	0.156	0.109	0.180	0.134	0.375	0.258	0.500	0.375
14x14x14	14.000	14.000	11.00	11.00	0.156	0.156	0.188	0.188	-	-	-	-
14x14x12	14.000	12.750	11.00	10.62	0.156	0.156	0.188	0.180	-	-	-	-
14x14x10	14.000	10.750	11.00	10.12	0.156	0.134	0.188	0.165	-	-	-	-
14x14x 8	14.000	8.625	11.00	9.75	0.156	0.109	0.188	0.148	-	-	-	-
14x14x 6	14.000	6.625	11.00	9.38	0.156	0.109	0.188	0.134	-	-	-	-

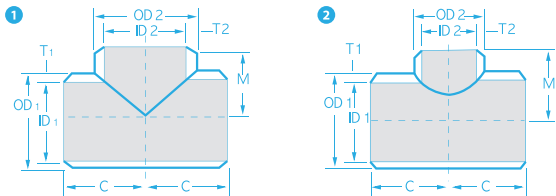


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- ANSI B 16.9

Tee

- 1 Straight (2)
- 2 Reducing (2)

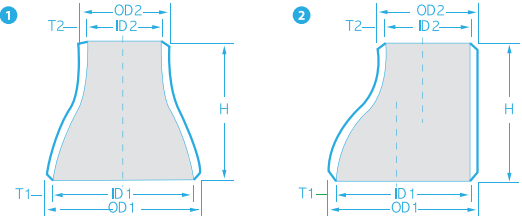


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- ANSI B 16.9

Reducer

- 1 Concentric (1)
- 2 Eccentric (1)



Nominal Pipe Size	Outside Diameter		Center to End		Sch 5s		Sch 10s		Sch 40s		Sch 80s	
	OD1	OD2	C	M	T1	T2	T1	T2	T1	T2	T1	T2
16x16x16	16.000	16.000	12.00	12.00	0.165	0.165	0.188	0.188	-	-	-	-
16x16x14	16.000	14.000	12.00	12.00	0.165	0.156	0.188	0.188	-	-	-	-
16x16x12	16.000	12.750	12.00	11.62	0.165	0.156	0.188	0.180	-	-	-	-
16x16x10	16.000	10.750	12.00	11.12	0.165	0.134	0.188	0.165	-	-	-	-
16x16x8	16.000	8.625	12.00	10.75	0.165	0.109	0.188	0.148	-	-	-	-
16x16x6	16.000	6.625	12.00	10.38	0.165	0.109	0.188	0.134	-	-	-	-
18x18x18	18.000	18.000	13.50	13.50	0.165	0.165	0.188	0.188	-	-	-	-
18x18x16	18.000	16.000	13.50	13.00	0.165	0.165	0.188	0.188	-	-	-	-
18x18x14	18.000	14.000	13.50	13.00	0.165	0.156	0.188	0.188	-	-	-	-
18x18x12	18.000	12.750	13.50	12.62	0.165	0.156	0.188	0.180	-	-	-	-
18x18x10	18.000	10.750	13.50	12.12	0.165	0.134	0.188	0.165	-	-	-	-
18x18x8	18.000	8.625	13.50	11.75	0.165	0.109	0.188	0.148	-	-	-	-
20x20x20	20.000	20.000	15.00	15.00	0.188	0.188	0.218	0.218	-	-	-	-
20x20x18	20.000	18.000	15.00	14.50	0.188	0.156	0.218	0.188	-	-	-	-
20x20x16	20.000	16.000	15.00	14.00	0.188	0.165	0.218	0.188	-	-	-	-
20x20x14	20.000	14.000	15.00	14.00	0.188	0.165	0.218	0.188	-	-	-	-
20x20x12	20.000	12.750	15.00	13.62	0.188	0.156	0.218	0.180	-	-	-	-
20x20x10	20.000	10.750	15.00	13.12	0.188	0.134	0.218	0.165	-	-	-	-
20x20x8	20.000	8.625	15.00	12.75	0.188	0.109	0.218	0.148	-	-	-	-
22x22x22	22.000	22.000	16.50	16.50	0.188	0.188	0.218	0.218	-	-	-	-
22x22x20	22.000	20.000	16.50	16.00	0.188	0.188	0.218	0.218	-	-	-	-
22x22x18	22.000	18.000	16.50	15.50	0.188	0.165	0.218	0.188	-	-	-	-
22x22x16	22.000	16.000	16.50	15.00	0.188	0.165	0.218	0.188	-	-	-	-
22x22x14	22.000	14.000	16.50	15.00	0.188	0.156	0.218	0.188	-	-	-	-
22x22x12	22.000	12.750	16.50	14.62	0.188	0.156	0.218	0.180	-	-	-	-
22x22x10	22.000	10.750	16.50	14.12	0.188	0.134	0.218	0.165	-	-	-	-
24x24x24	24.000	24.000	17.00	17.00	0.218	0.218	0.250	0.250	-	-	-	-
24x24x22	24.000	22.000	17.00	17.00	0.218	0.188	0.250	0.218	-	-	-	-
24x24x20	24.000	20.000	17.00	17.00	0.218	0.188	0.250	0.218	-	-	-	-
24x24x18	24.000	18.000	17.00	16.50	0.218	0.165	0.250	0.188	-	-	-	-
24x24x16	24.000	16.000	17.00	16.00	0.218	0.165	0.250	0.188	-	-	-	-
24x24x14	24.000	14.000	17.00	16.00	0.218	0.156	0.250	0.188	-	-	-	-
24x24x12	24.000	12.750	17.00	15.62	0.218	0.156	0.250	0.180	-	-	-	-
24x24x10	24.000	10.750	17.00	15.12	0.218	0.134	0.250	0.165	-	-	-	-
30x30x30	30.000	30.000	22.00	22.00	0.250	0.250	0.312	0.312	-	-	-	-
30x30x24	30.000	24.000	22.00	21.00	0.250	0.218	0.312	0.258	-	-	-	-
30x30x22	30.000	22.000	22.00	20.50	0.250	0.188	0.312	0.218	-	-	-	-
30x30x20	30.000	20.000	22.00	20.00	0.250	0.188	0.312	0.218	-	-	-	-
30x30x18	30.000	18.000	22.00	19.50	0.250	0.165	0.312	0.188	-	-	-	-
30x30x16	30.000	16.000	22.00	19.00	0.250	0.165	0.312	0.188	-	-	-	-
30x30x14	30.000	14.000	22.00	19.00	0.250	0.156	0.312	0.188	-	-	-	-
30x30x12	30.000	12.750	22.00	18.62	0.250	0.156	0.312	0.180	-	-	-	-
30x30x10	30.000	10.750	22.00	18.12	0.250	0.134	0.312	0.165	-	-	-	-

Nominal Pipe Size	Outside Diameter		End to End (H)	Wall Thickness T							
	OD1	OD2		5s		10s		40s		80s	
3/4 X 1/2	1.050	0.840	1.50	0.065	0.065	0.083	0.083	0.113	0.109	0.154	0.147
1 X 3/4	1.315	1.050	2.00	0.065	0.065	0.109	0.083	0.133	0.113	0.719	0.154
1 X 1/2	1.315	0.840	2.00	0.065	0.065	0.109	0.083	0.133	0.109	0.179	0.147
1 1/4 X1	1.660	1.135	2.00	0.065	0.065	0.109	0.109	0.140	0.133	0.191	0.179
1 1/4 X 3/4	1.660	1.050	2.00	0.065	0.065	0.109	0.083	0.140	0.113	0.191	0.154
1 1/4 X 1/2	1.660	0.840	2.00	0.065	0.065	0.109	0.083	0.140	0.109	0.191	0.147
1 1/2 X1 1/4	1.900	1.660	2.50	0.065	0.065	0.109	0.109	0.145	0.140	0.200	0.191
1 1/2 X1	1.900	1.315	2.50	0.065	0.065	0.109	0.109	0.145	0.133	0.200	0.179
1 1/2 X 3/4	1.900	1.050	2.50	0.065	0.065	0.109	0.083	0.145	0.113	0.200	0.154
1 1/2 X 1/2	1.900	0.840	2.50	0.065	0.065	0.109	0.083	0.145	0.109	0.200	0.147
2 X1 1/2	2.375	1.900	3.00	0.065	0.065	0.109	0.109	0.154	0.145	0.218	0.200
2 X1 1/4	2.375	1.660	3.00	0.065	0.065	0.109	0.109	0.154	0.140	0.218	0.191
2 X1	2.375	1.315	3.00	0.065	0.065	0.109	0.109	0.154	0.133	0.218	0.179
2 X 3/4	2.375	1.050	3.00	0.065	0.065	0.109	0.083	0.154	0.113	0.218	0.154
2 1/2 X2	2.875	2.375	3.50	0.083	0.065	0.120	0.109	0.203	0.154	0.276	0.218
2 1/2 X1 1/2	2.875	1.900	3.50	0.083	0.065	0.120	0.109	0.203	0.145	0.276	0.200
2 1/2 X1 1/4	2.875	1.600	3.50	0.083	0.065	0.120	0.109	0.203	0.140	0.276	0.191
2 1/2 X1	2.875	1.315	3.50	0.083	0.065	0.120	0.109	0.203	0.133	0.276	0.179
3 X2 1/2	3.500	2.875	3.50	0.083	0.083	0.120	0.120	0.216	0.203	0.300	0.276
3 X2	3.500	2.375	3.50	0.083	0.065	0.120	0.109	0.216	0.154	0.300	0.218
3 X1 1/2	3.500	1.900	3.50	0.083	0.065	0.120	0.109	0.216	0.145	0.300	0.200
3 X1 1/4	3.500	1.660	3.50	0.083	0.065	0.120	0.109	0.216	0.140	0.300	0.191
3 1/2 X3	4.000	3.500	4.00	0.083	0.083	0.120	0.120	0.226	0.216	0.318	0.300
3 1/2 X2 1/2	4.000	2.875	4.00	0.083	0.083	0.120	0.120	0.226	0.203	0.318	0.276
3 1/2 X2	4.000	2.375	4.00	0.083	0.065	0.120	0.109	0.226	0.154	0.318	0.218
3 1/2 X1 1/2	4.000	1.900	4.00	0.083	0.065	0.120	0.109	0.226	0.145	0.318	0.200
3 1/2 X1 1/4	4.000	1.660	4.00	0.083	0.065	0.120	0.109	0.226	0.140	0.318	0.191
4 X3 1/2	4.500	4.000	4.00	0.083	0.083	0.120	0.120	0.237	0.226	0.337	0.318
4 X3	4.500	3.500	4.00	0.083	0.083	0.120	0.120	0.237	0.216	0.337	0.300
4 X3 1/2	4.500	2.875	4.00	0.083	0.083	0.120	0.120	0.237	0.203	0.337	0.276
4 X2	4.500	2.375	4.00	0.083	0.065	0.120	0.109	0.237	0.154	0.337	0.218
4 X1 1/2	4.500	1.900	4.00	0.083	0.065	0.120	0.109	0.237	0.145	0.337	0.200
5 X4	5.563	4.500	5.00	0.109	0.083	0.134	0.120	0.258	0.237	0.375	0.337
5 X3 1/2	5.563	4.000	5.00	0.109	0.083	0.134	0.120	0.258	0.226	0.375	0.318
5 X3	5.563	3.500	5.00	0.109	0.083	0.134	0.120	0.258	0.216	0.375	0.300
5 X2	5.563	2.875	5.00	0.109	0.083	0.134	0.120	0.258	0.203	0.375	0.276
5 X2	5.563	2.375	5.00	0.109	0.065	0.134	0.109	0.258	0.154	0.375	0.218
6 X5	6.625	5.563	5.50	0.109	0.109	0.134	0.134	0.280	0.258	0.432	0.375
6 X4	6.625	4.500	5.50	0.109	0.083	0.134	0.120	0.280	0.237	0.432	0.337
6 X3 1/2	6.625	4.000	5.50	0.109	0.083	0.134	0.120	0.280	0.226	0.432	0.318
6 X3	6.625	3.500	5.50	0.109	0.083	0.134	0.120	0.280	0.216	0.432	0.300
6 X2 1/2	6.625	2.875	5.50	0.109	0.083	0.134	0.120	0.280	0.203	0.432	0.276

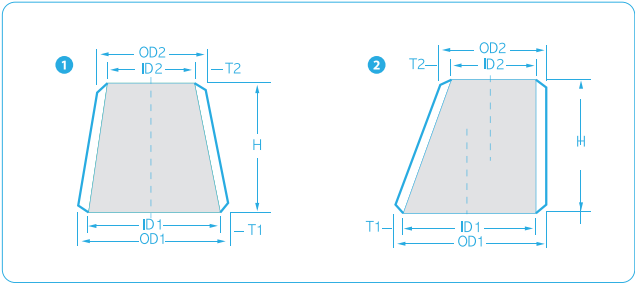


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- Sch5s, Sch10s, Sch20s, Sch40s, Sch80s
- ANSI B 16.9

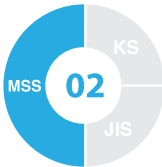
Reducer

- 1 Straight (2)
- 2 Reducing (2)



Unit : inch

Nominal Pipe Size	Outside Diameter		End to End (H)	Wall Thickness T							
				5s		10s		40s		80s	
	OD1	OD2		T1	T2	T1	T2	T1	T2	T1	T2
8x6	8.625	6.625	6.00	0.109	0.109	0.148	0.134	0.322	0.280	0.500	0.432
8x5	8.625	5.563	6.00	0.109	0.109	0.148	0.134	0.322	0.258	0.500	0.375
8x4	8.625	4.500	6.00	0.109	0.083	0.148	0.120	0.322	0.237	0.500	0.337
8x3 1/2	8.625	4.500	6.00	0.109	0.083	0.148	0.120	0.322	0.226	0.500	0.318
10x8	10.750	8.625	7.00	0.134	0.109	0.165	0.148	0.365	0.322	0.500	0.500
10x6	10.750	6.625	7.00	0.134	0.109	0.165	0.134	0.365	0.280	0.500	0.432
10x5	10.750	5.563	7.00	0.134	0.109	0.165	0.134	0.365	0.258	0.500	0.375
10x4	10.750	4.500	7.00	0.134	0.083	0.165	0.120	0.365	0.237	0.500	0.337
12x10	12.750	10.750	8.00	0.156	0.134	0.180	0.165	0.375	0.365	0.500	0.500
12x8	12.750	8.625	8.00	0.156	0.109	0.180	0.148	0.375	0.322	0.500	0.500
12x6	12.750	6.625	8.00	0.156	0.109	0.180	0.134	0.375	0.280	0.500	0.432
12x5	12.750	5.563	8.00	0.156	0.109	0.180	0.134	0.375	0.258	0.500	0.375
14x12	14.000	12.750	13.00	0.156	0.156	0.188	0.180	-	-	-	-
14x10	14.000	10.750	13.00	0.156	0.134	0.188	0.165	-	-	-	-
14x8	14.000	8.625	13.00	0.156	0.109	0.188	0.148	-	-	-	-
14x6	14.000	6.625	13.00	0.156	0.109	0.188	0.134	-	-	-	-
16x14	16.000	14.000	14.00	0.165	0.156	0.188	0.188	-	-	-	-
16x12	16.000	12.750	14.00	0.165	0.156	0.188	0.180	-	-	-	-
16x10	16.000	10.750	14.00	0.165	0.134	0.188	0.165	-	-	-	-
16x8	16.000	8.625	14.00	0.165	0.109	0.188	0.148	-	-	-	-
18x16	18.000	16.000	15.00	0.165	0.165	0.188	0.188	-	-	-	-
18x14	18.000	14.000	15.00	0.165	0.156	0.188	0.188	-	-	-	-
18x12	18.000	12.750	15.00	0.165	0.156	0.188	0.180	-	-	-	-
18x10	18.000	10.750	15.00	0.165	0.134	0.188	0.165	-	-	-	-
20x18	20.000	18.000	20.00	0.188	0.165	0.218	0.188	-	-	-	-
20x16	20.000	16.000	20.00	0.188	0.165	0.218	0.188	-	-	-	-
20x14	20.000	14.000	20.00	0.188	0.156	0.218	0.188	-	-	-	-
20x12	20.000	12.750	20.00	0.188	0.156	0.218	0.180	-	-	-	-
22x20	22.000	20.000	20.00	0.188	0.188	0.218	0.218	-	-	-	-
22x18	22.000	18.000	20.00	0.188	0.165	0.218	0.188	-	-	-	-
22x16	22.000	16.000	20.00	0.188	0.165	0.218	0.188	-	-	-	-
22x14	22.000	14.000	20.00	0.188	0.156	0.218	0.188	-	-	-	-
24x22	24.000	22.000	20.00	0.218	0.188	0.250	0.218	-	-	-	-
24x20	24.000	20.000	20.00	0.218	0.188	0.250	0.218	-	-	-	-
24x18	24.000	18.000	20.00	0.218	0.165	0.250	0.188	-	-	-	-
24x16	24.000	16.000	20.00	0.218	0.165	0.250	0.188	-	-	-	-
30x24	30.000	24.000	24.00	0.250	0.218	0.312	0.250	-	-	-	-
30x22	30.000	22.000	24.00	0.250	0.188	0.312	0.218	-	-	-	-
30x20	30.000	20.000	24.00	0.250	0.188	0.312	0.218	-	-	-	-

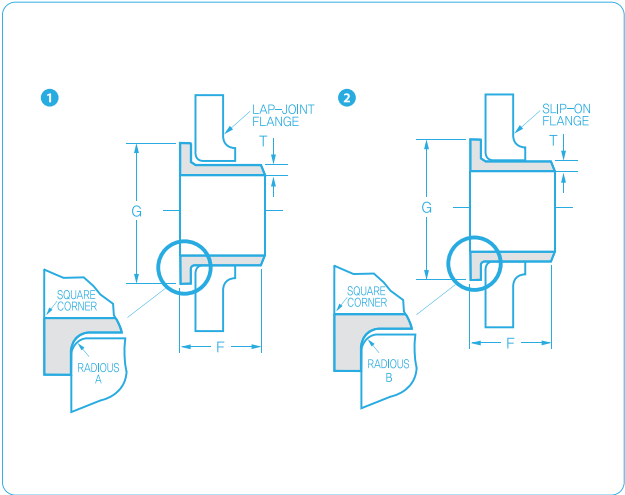
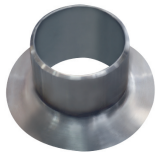


STAINLESS STEEL BUTT WELD FITTINGS

- Product data
- MSS SP-43 / ANSI B16.9

STUB ENDS

- 1 TYPE A FOR LAP-JOINT FLANGE
- 2 TYPE B FOR LAP-JOINT FLANGE



Unit : mm

Unit : Kg

Nominal Pipe Size	Outside Diameter R (O.D)	Wall Thickness(T)			Outside Diameter of Lap(G)	Length(F)		F		Weight		
		SCH10S	SCH20S	SCH40S		ANSI	MSS	Type A (Max)	Type B (Max)	SCH10S	SCH20S	SCH40S
1/2	0.840	0.083	0.109	0.147	1.375	3.0	2.0	0.13	0.03	0.07	0.11	0.12
3/4	1.050	0.083	0.113	0.154	1.688	3.0	2.0	0.13	0.03	0.08	0.15	0.16
1	1.315	0.109	0.133	0.179	2.000	4.0	2.0	0.13	0.03	0.14	0.18	0.24
1 1/4	1.660	0.109	0.140	0.191	2.500	4.0	2.0	0.19	0.03	0.20	0.26	0.34
1 1/2	1.900	0.109	0.145	0.200	2.675	4.0	2.0	0.25	0.03	0.24	0.37	0.45
2	2.375	0.109	0.154	0.218	3.625	6.0	2.5	0.31	0.03	0.37	0.53	0.74
2 1/2	2.875	0.120	0.203	0.276	4.125	6.0	2.5	0.31	0.03	0.47	0.79	1.06
3	3.500	0.120	0.216	0.300	5.000	6.0	2.5	0.38	0.03	0.63	1.13	1.50
4	4.500	0.120	0.237	0.337	6.188	6.0	3.0	0.44	0.03	0.97	1.81	2.52
5	5.563	0.134	0.258	0.375	7.313	8.0	3.0	0.44	0.06	1.23	2.53	3.06
6	6.625	0.134	0.280	0.432	8.500	8.0	3.5	0.50	0.06	1.95	3.72	5.57
8	8.625	0.148	0.322	0.500	10.625	8.0	4.0	0.50	0.06	3.10	5.89	10.12
10	10.750	0.165	0.365	0.500	12.750	10.0	5.0	0.50	0.06	4.86	10.42	13.95
12	12.750	0.180	0.365	0.500	15.000	10.0	6.0	0.50	0.06	7.11	14.95	19.93
14	14.000	0.188	0.375	0.500	16.250	12.0	6.0	0.50	0.06	7.75	15.46	20.62
16	16.000	0.188	0.375	0.500	18.500	12.0	6.0	0.50	0.06	9.02	17.98	23.98
18	18.000	0.188	0.375	0.500	21.000	12.0	6.0	0.50	0.06	10.53	21.00	28.00
20	20.000	0.218	0.375	0.500	23.000	12.0	6.0	0.50	0.06	13.54	23.30	31.70
22	22.000	0.218	0.375	0.500	25.250	12.0	-	0.50	0.06	-	-	-
24	24.000	0.250	0.375	0.500	27.250	12.0	6.0	0.50	0.06	18.94	28.41	37.88

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