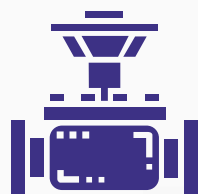


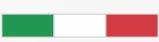
# SEAMLESS & WELDED

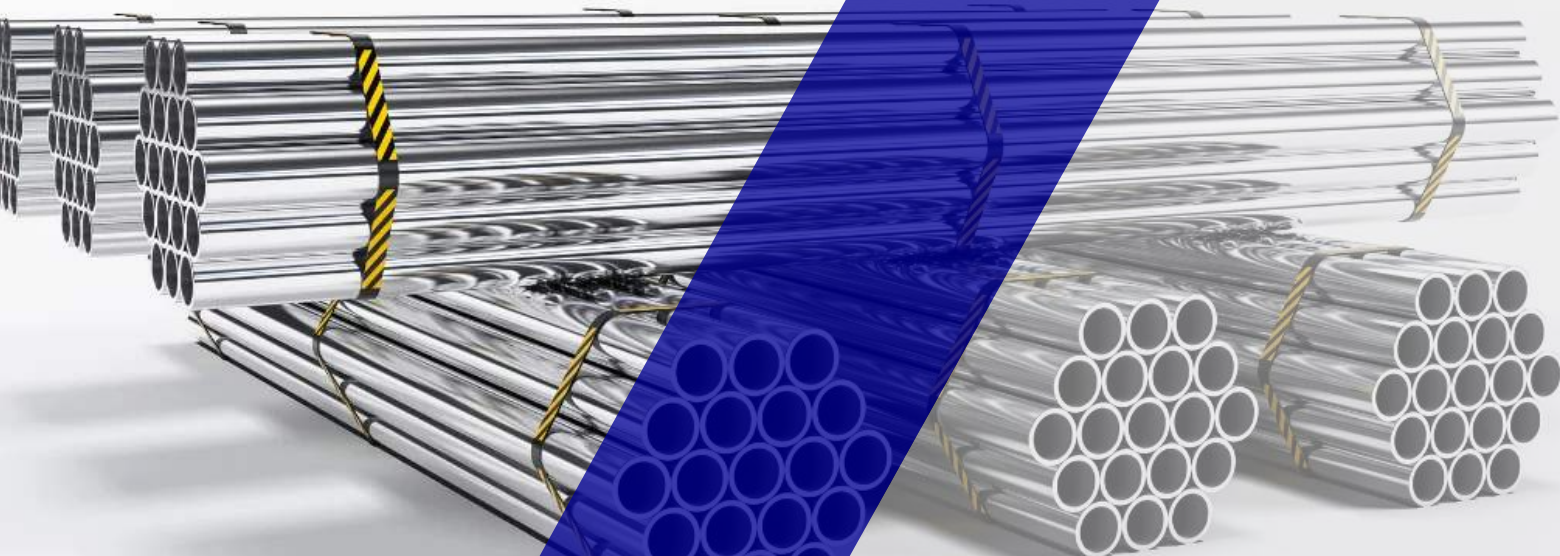
Pipes & Butt Weld Fittings

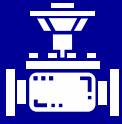
GENERAL DIMENSIONS AND DATA



# GOVAL

I T A L Y 





**GOVAL**  
I T A L Y

MANUFACTURER & DISTRIBUTOR

GOVAL ITALY S.R.L is a certified ISO 9001 company established in 2009, based in Milano Italy, specializes in the supply of industrial valves, pipes, and pipe fittings. Our products are conform to the latest editions of API, ASTM, ASME, EN Standards.

It is our policy to provide high quality products source from manufacturers whose products meet the EU standards, Furthermore, we operate internationally and exports products to customers overseas, We make sure that we provide a streamlined process for all of our clients. Our business model enables manufacturers to have full access to global trade, empowering them to focus on their core markets.



We provide our retail partners with high demand products and offer direct to customer fulfillment to help build their extended aisle assortments.

Having a relationship with us is a privilege because we keep all of our products in a warehouse located in Milano, Italy. We are ready to ship and fulfill your immediate needs of valves, pipes and fittings, covering a wide range of corporate needs. We are constantly revamping logistics and supply chain processes, so as to keep costs down and our prices competitive.

## Brands



Seamless Pipes  
Buttweld Fittings



Valves



Flanges

## Quality Assurance

Goval meticulously evaluates its manufacturing sources for products, ensuring that each mill meets a set of established quality control criteria. All products provided by Goval adhere to applicable British Standards or international standards, with certification available upon request. The Goval service center implements a quality manual that aligns with UNI EN ISO9001/2015 standards. Numerous vendor approvals and customized quality control systems are managed through each Goval service center.



## Product

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### ■ Process of Steel Pipe

According to the manufacturing and processing methods, steel pipes are divided into seamless pipes and welded steel pipes. Seamless tubes are formed in one stage during rolling, but welded tubes need welding process after rolling. Due to the different shapes of the weld, it can be divided into spiral welding and straight seam welding. Seamless steel pipe and welded steel pipe manufacturers can produce steel pipes with high quality, reliability and corrosion resistance. In determining the type of pipeline, the main focus is on the application specifications and

#### ➤ Seamless Steel Pipe:

Seamless steel pipes are usually manufactured in complex steps, starting with hollow holes drilled from the blank, through cold drawing and cold rolling processes. Compared with welded pipe, the size of seamless pipe is difficult to control, and cold working improves mechanical properties and tolerances. The most obvious advantage of seamless pipe is that it can produce thick wall seamless pipe, which has better mechanical properties and corrosion resistance than seamed pipe. In addition, the ovality or roundness of seamless pipe will be better. It is generally preferred to use under extreme environmental conditions such as high load, high pressure and high corrosivity.



#### ➤ Welded Steel Pipe:

Welded steel pipes are formed by welding tubular steel plates rolled through seams or spiral seams. There are different manufacturing methods for welded pipes according to external dimensions, wall thickness and application. Each method starts with hot billets or flat bars, and then pipes are made by stretching the hot billets and pressing the edges together and sealing them with welds.



## PRODUCT

■ **Product Standard and Standard No. of Carbon Steel Welded Pipe**

Product Standards	.Standard No
ASTM	A53 A134 A135 A139 A178 A214 A333 A334 A381 A513 A523 A671 A672 A691 A795
EN	EN 10208-1 EN 10208-2 EN 10217-1 EN 10217-2 EN 10217-4 EN 10217-5 EN 10217-6 EN 10224 EN 10255 EN 10288 EN 10296-1 EN 10305-2 EN 10305-3 EN 10305-6
API	API 5L
JIS	JIS G3442 G3443 G3444 G3445 G3452 G3454 G3456 G3460 G3461 G3464 G3469 G3475 G7217
ISO	ISO 3183

➤ **Advantage:**

Smelting process is relatively simple, low cost, good pressure processing performance, good cutting performance and good mechanical properties. Such as by changing the carbon content and for its proper heat treatment, many of the performance obtained on the industrial production requirements. Because of the low carbon steel prices, production easy, good processing performance, the industry is still the most widely used steel materials, steel products accounted for more than 80% of the total amount.

➤ **Application:**

**TRANSPORTING WATER**

Carbon steel pipes are the ideal choice for transporting water, sewage, and other compatible fluids. Being highly resistant to shock or vibration, the fluctuating water pressure or shock pressure from a water hammer have no ill-effects on steel pipes, making carbon steel pipes the primary choice when laying water pipelines under roadways.

**INDUSTRIAL HEATING, CONDENSATION, STEAM**

Carbon steel pipes are widely used in industrial processes involving high heat, extreme cold, or even transporting gases such as steam. Heating systems use thin-wall, straight bead, precision carbon steel pipes with a lower level of carbon content.

**AUTOMOTIVE AND TRANSPORT**

Carbon steel pipes are widely used in the automotive industry. They are especially ideal for conveyor belt idlers and lancing pipes.

## PRODUCT

### ■ Stainless Steel Tube

	.Standard No
ASTM	A213 A249 A269 A312 A358 A376 A409 A511 A554 A789 A790
EN	EN 10216-5 EN 10217-7 EN 10296-2 EN 10297-2
DIN	DIN 17455/17456 DIN 17457/17458 DIN 2462/2463
JIS	JIS 3446 JIS 3459 JIS 3463

### ➤ Material:

Austenitic Stainless Steel	TP201 TP202 TP304/L/H/N TP309S/H TP310S/H TP316/L/H/Ti/N TP317/L TP321/H TP347/H TP348/H
Ferritic and Martensitic Stainless Steel	TP405 TP429 TP430 TP443 TP446-1 TP446-2 TP403 TP410 TP414 TP416 TP431 TP440A TP440B
Duplex Stainless Steel	S31200 S31500 S31803 S32205S32250 S32750 S32900

### ➤ Advantages:

The stainless steel tube has the following outstanding advantages: excellent mechanical properties, excellent wear resistance, good safety and health performance, good temperature resistance, good thermal insulation performance, smooth inner wall, small water resistance, beautiful appearance, clean, fashionable, 100% recyclable, conducive to saving water resources, wide range of use, long service life, low comprehensive cost, etc.

### ➤ Application:

To fully grasp how integral stainless steel tubing is to our lives, it's important to consider that it has numerous uses in our homes, including within our appliances, water, heating, and plumbing systems, in our cars, and in the tools we use. Outside of our homes, stainless steel tube plays a role in nearly every industry we rely on, from food and beverage processing to transportation, construction, technology, automotive, and more.

As custom fabricators, we are always willing to work within our clients' specifications in order to bring their vision to life and create just one more incredible use for stainless steel tube.





PIPE DIMENSIONS AND WEIGHTS

U.S./METRIC

NOMINAL PIPE SIZE	OD	SCHEDULE DESIGNATIONS			WALL THICKNESS		WEIGHT		ID	
		ASME			INCH	MM	LBS/FOOT	KG/METER	INCH	MM
1/8 6	0.405 10.3	10	40	10S	0.049	1.24	0.19	0.28	0.307	7.82
		STD		40S	0.068	1.73	0.24	0.37	0.269	6.84
		XS		80S	0.095	2.41	0.31	0.47	0.215	5.84
1/4 8	0.540 13.7	10	40	10S	0.065	1.65	0.33	0.49	0.410	10.40
		STD		40S	0.088	2.24	0.43	0.63	0.364	9.22
		XS		80S	0.119	3.02	0.54	0.80	0.302	7.66
3/8 10	0.675 17.1	10	40	10S	0.065	1.65	0.42	0.63	0.545	13.80
		STD		40S	0.091	2.31	0.57	0.84	0.493	12.48
		XS		80S	0.126	3.20	0.74	1.10	0.423	10.70
1/2 15	0.840 21.3	5	40	5S	0.065	1.65	0.54	0.80	0.710	18.00
		10		10S	0.083	2.11	0.67	1.00	0.674	17.08
		STD		40S	0.109	2.77	0.85	1.27	0.622	15.76
		XS		80S	0.147	3.73	1.09	1.62	0.546	13.84
		160			0.188	4.78	1.31	1.95	0.464	11.74
		XX			0.294	7.47	1.72	2.55	0.252	6.36
3/4 20	1.050 26.7	5	40	5S	0.065	1.65	0.69	1.03	0.920	23.40
		10		10S	0.083	2.11	0.86	1.28	0.884	22.48
		STD		40S	0.113	2.87	1.13	1.69	0.824	20.96
		XS		80S	0.154	3.91	1.48	2.20	0.742	18.88
		160			0.219	5.56	1.95	2.90	0.612	15.58
		XX			0.308	7.82	2.44	3.64	0.434	11.06
1 25	1.315 33.4	5	40	5S	0.065	1.65	0.87	1.29	1.185	30.10
		10		10S	0.109	2.77	1.41	2.09	1.097	27.86
		STD		40S	0.133	3.38	1.68	2.50	1.049	26.64
		XS		80S	0.179	4.55	2.17	3.24	0.957	24.30
		160			0.250	6.35	2.85	4.24	0.815	20.70
		XX			0.358	9.09	3.66	5.45	0.599	15.22
1-1/4 32	1.660 42.2	5	40	5S	0.065	1.65	1.11	1.65	1.530	38.90
		10		10S	0.109	2.77	1.81	2.69	1.442	36.66
		STD		40S	0.140	3.56	2.27	3.39	1.380	35.08
		XS		80S	0.191	4.85	3.00	4.47	1.278	32.50
		160			0.250	6.35	3.77	5.61	1.160	29.50
		XX			0.382	9.70	5.22	7.77	0.896	22.80
1-1/2 40	1.900 48.3	5	40	5S	0.065	1.65	1.28	1.90	1.770	45.00
		10		10S	0.109	2.77	2.09	3.11	1.682	42.76
		STD		40S	0.145	3.68	2.72	4.05	1.610	40.94
		XS		80S	0.200	5.08	3.63	5.41	1.500	38.14
		160			0.281	7.14	4.86	7.25	1.338	34.02
		XX			0.400	10.15	6.41	9.55	1.100	28.00
2 50	2.375 60.3	5	40	5S	0.065	1.65	1.61	2.39	2.245	57.00
		10		10S	0.109	2.77	2.64	3.93	2.157	54.76
		STD		40S	0.154	3.91	3.66	5.44	2.067	52.48
		XS		80S	0.218	5.54	5.03	7.48	1.939	49.22
		160			0.344	8.74	7.47	11.11	1.687	42.82
		XX			0.436	11.07	9.04	13.44	1.503	38.16
2-1/2 65	2.875 73.0	5	40	5S	0.083	2.11	2.48	3.69	2.709	68.78
		10		10S	0.120	3.05	3.53	5.26	2.635	66.90
		STD		40S	0.203	5.16	5.80	8.63	2.469	62.68
		XS		80S	0.276	7.01	7.67	11.41	2.323	58.98
		160			0.375	9.53	10.02	14.92	2.125	53.94
		XX			0.552	14.02	13.71	20.39	1.771	44.96
3 80	3.500 88.9	5	40	5S	0.083	2.11	3.03	4.52	3.334	84.68
		10		10S	0.120	3.05	4.34	6.46	3.260	82.80
		STD		40S	0.216	5.49	7.58	11.29	3.068	77.92
		XS		80S	0.300	7.62	10.26	15.27	2.900	73.66
		160			0.438	11.13	14.34	21.35	2.624	66.64
		XX			0.600	15.24	18.60	27.68	2.300	58.42
3-1/2 90	4.000 101.6	5	40	5S	0.083	2.11	3.48	5.18	3.834	97.38
		10		10S	0.120	3.05	4.98	7.41	3.760	95.50
		STD		40S	0.226	5.74	9.12	13.57	3.548	90.12
		XS		80S	0.318	8.08	12.52	18.64	3.364	85.44
		160			0.636	16.15	22.87	34.03	2.728	69.30
		XX								
4 100	4.500 114.3	5	40	5S	0.083	2.11	3.92	5.84	4.334	110.08
		10		10S	0.120	3.05	5.62	8.37	4.260	108.20
					0.156	3.96	7.24	10.78	4.188	106.38
					0.188	4.78	8.67	12.91	4.124	104.74
		STD		40S	0.237	6.02	10.80	16.08	4.026	102.26
		XS		80S	0.337	8.56	15.00	22.32	3.826	97.18
		120			0.438	11.13	19.02	28.32	3.624	92.04
		160			0.531	13.49	22.53	33.54	3.438	87.32
		XX			0.674	17.12	27.57	41.03	3.152	80.06
4-1/2 115	5.000 127.0	STD	40	40S	0.247	6.27	12.55	18.67	4.506	114.46
		XS	80	80S	0.355	9.02	17.63	26.24	4.290	108.96
		XX			0.710	18.03	32.56	48.45	3.580	90.94

The suffix 'S' after the schedule number indicates that the pipe dimensions and weight are in compliance with this stainless steel pipe specification ANSI/ASME B36.19M-1985, and not the more general ANSI/ASME B36.10M-1995 specification.





PIPE DIMENSIONS AND WEIGHTS

U.S./METRIC

NOMINAL PIPE SIZE	OD	SCHEDULE DESIGNATIONS			WALL THICKNESS		WEIGHT		ID	
		INCH	MM	ASME	INCH	MM	LBS/FOOT	KG/METER	INCH	MM
5 125	5.563 141.3	5	40	5S	0.109	2.77	6.36	9.46	5.345	135.76
		10		10S	0.134	3.40	7.78	11.56	5.295	134.50
		STD		40S	0.258	6.55	14.63	21.77	5.047	128.20
		XS		80S	0.375	9.53	20.80	30.97	4.813	122.24
		120			0.500	12.70	27.06	40.28	4.563	115.90
		160			0.625	15.88	32.99	49.12	4.313	109.54
		XX			0.750	19.05	38.59	57.43	4.063	103.20
6 150	6.625 168.3	5	40	5S	0.109	2.77	7.59	11.31	6.407	162.76
		10		10S	0.134	3.40	9.30	13.83	6.357	161.50
		STD		40S	0.188	4.78	12.94	19.28	6.249	158.74
		XS		80S	0.280	7.11	18.99	28.26	6.065	154.08
		120			0.432	10.97	28.60	42.56	5.761	146.36
		160			0.562	14.27	36.43	54.21	5.501	139.76
		XX			0.719	18.26	45.39	67.57	5.187	131.78
7 175	7.625 193.7	STD	40	40S	0.301	7.65	23.57	35.10	7.023	178.40
		XS	80	80S	0.500	12.70	38.08	56.69	6.625	168.30
		XX			0.875	22.23	63.14	94.00	5.875	149.24
8 200	8.625 219.1	10	40	5S	0.109	2.77	9.92	14.78	8.407	213.56
		20		10S	0.148	3.76	13.41	19.97	8.329	211.58
		30			0.250	6.35	22.38	33.32	8.125	206.40
		STD		40S	0.277	7.04	24.72	36.82	8.071	205.02
		60		80S	0.322	8.18	28.58	42.55	7.981	202.74
		XS			0.406	10.31	35.67	53.09	7.813	198.48
		100			0.500	12.70	43.43	64.64	7.625	193.70
		120			0.594	15.09	51.00	75.92	7.437	188.92
		140			0.719	18.26	60.77	90.44	7.187	182.58
		XX			0.812	20.62	67.82	100.93	7.001	177.86
		160			0.875	22.23	72.49	107.93	6.875	174.64
					0.906	23.01	74.76	111.27	6.813	173.08
		9 225		9.625 244.5	STD	40	40S	0.342	8.69	33.94
XS	80		80S		0.500	12.70	48.77	72.60	8.625	219.10
XX					0.875	22.23	81.85	121.85	7.875	200.04
10 250	10.750 273.0	20	40	5S	0.134	3.40	15.21	22.61	10.482	266.20
		30		10S	0.165	4.19	18.67	27.78	10.420	264.62
		STD		40S	0.188	4.78	21.23	31.62	10.374	263.44
		XS		80S	0.250	6.35	28.06	41.76	10.250	260.30
		80			0.307	7.80	34.27	51.01	10.136	257.40
		100			0.365	9.27	40.52	60.29	10.020	254.46
		120			0.500	12.70	54.79	81.53	9.750	247.60
		140			0.594	15.09	64.49	95.98	9.562	242.82
		XX			0.719	18.26	77.10	114.71	9.312	236.48
		160			0.844	21.44	89.38	133.01	9.062	230.12
					1.000	25.40	104.23	155.10	8.750	222.20
					1.125	28.58	115.75	172.27	8.500	215.84
		11 275		11.750 298.5	STD	40	40S	0.375	9.53	45.60
XS	80		80S		0.500	12.70	60.13	89.51	10.750	273.10
XX					0.875	22.23	101.72	151.46	10.000	254.04
12 300	12.750 323.8	20	40	5S	0.156	3.96	21.00	31.24	12.438	315.88
		30		10S	0.180	4.57	24.19	35.98	12.390	314.66
		STD		40S	0.188	4.78	25.25	37.61	12.374	314.24
		XS		80S	0.250	6.35	33.41	49.71	12.250	311.10
		60			0.330	8.38	43.81	65.19	12.090	307.04
		80			0.375	9.53	49.61	73.86	12.000	304.74
		100			0.406	10.31	53.57	79.71	11.938	303.18
		120			0.500	12.70	65.48	97.44	11.750	298.40
		XX			0.562	14.27	73.22	108.93	11.626	295.26
		140			0.688	17.48	88.71	132.05	11.374	288.84
		160			0.844	21.44	107.42	159.87	11.062	280.92
					1.000	25.40	125.61	186.92	10.750	273.00
					1.125	28.58	139.81	208.08	10.500	266.64
		1.312	33.32	160.42	238.69	10.126	257.16			
14 350	14.000 355.6	10	30	10S	0.188	4.78	27.76	41.36	13.624	346.04
		20		40S	0.250	6.35	36.75	54.69	13.500	342.90
		STD		80S	0.312	7.92	45.65	67.91	13.376	339.76
		40			0.375	9.53	54.62	81.33	13.250	336.54
		XS			0.438	11.13	63.50	94.55	13.124	333.34
		60			0.500	12.70	72.16	107.40	13.000	330.20
		80			0.594	15.09	85.13	126.72	12.812	325.42
		100			0.750	19.05	106.23	158.11	12.500	317.50
		120			0.938	23.83	130.98	194.98	12.124	307.94
		140			1.094	27.79	150.93	224.66	11.812	300.02
		160			1.250	31.75	170.37	253.58	11.500	292.10
					1.406	35.71	189.29	281.72	11.188	284.18

The suffix 'S' after the schedule number indicates that the pipe dimensions and weight are in compliance with this stainless steel pipe specification ANSI/ASME B36.19M-1985, and not the more general ANSI/ASME B36.10M-1995 specification.





**PIPE DIMENSIONS AND WEIGHTS**

**U.S./METRIC**

NOMINAL PIPE SIZE	OD	SCHEDULE DESIGNATIONS		WALL THICKNESS		WEIGHT		ID					
				INCH	MM	LBS/FOOT	KG/METER	INCH	MM				
16 400	16.000 406.4	10 20 STD 30 XS 40 60 80 100 120 140 160	10S 40S 80S	0.188	4.78	31.78	47.34	15.624	396.84				
				0.250	6.35	42.09	62.65	15.500	393.70				
				0.312	7.92	52.32	77.83	15.376	390.56				
				0.375	9.53	62.64	93.27	15.250	387.34				
				0.500	12.70	82.85	123.31	15.000	381.00				
				0.656	16.66	107.60	160.13	14.688	373.08				
				0.844	21.44	136.74	203.54	14.312	363.52				
				1.031	26.19	164.98	245.57	13.938	354.02				
				1.219	30.96	192.61	286.66	13.562	344.48				
				1.438	36.53	223.85	333.21	13.124	333.34				
				1.594	40.49	245.48	365.38	12.812	325.42				
				18 450	18.000 457	10 20 STD 30 XS 40 60 80 100 120 140 160	10S 40S 80S	0.188	4.78	35.80	53.31	17.624	447.44
								0.250	6.35	47.44	70.57	17.500	444.30
0.312	7.92	58.99	87.71					17.376	441.16				
0.375	9.53	70.65	105.17					17.250	437.94				
0.438	11.13	82.23	122.38					17.124	434.74				
0.500	12.70	93.54	139.16					17.000	431.60				
0.562	14.27	104.76	155.81					16.876	428.46				
0.750	19.05	138.30	205.75					16.500	418.90				
0.938	23.83	171.08	254.57					16.124	409.34				
1.156	29.36	208.15	309.64					15.688	398.28				
1.375	34.93	244.37	363.58					15.250	387.14				
1.562	39.67	274.48	408.28					14.876	377.66				
1.781	45.24	308.79	459.39					14.438	366.52				
20 500	20.000 508	10 STD 20 XS 30 40 60 80 100 120 140 160	10S 40S 80S	0.218	5.54	46.10	68.61	19.564	496.92				
				0.250	6.35	52.78	78.56	19.500	495.30				
				0.375	9.53	78.67	117.15	19.250	488.94				
				0.500	12.70	104.23	155.13	19.000	482.60				
				0.594	15.09	123.23	183.43	18.812	477.82				
				0.812	20.62	166.56	247.84	18.376	466.76				
				1.031	26.19	209.06	311.19	17.938	455.62				
				1.281	32.54	256.34	381.55	17.438	442.92				
				1.500	38.10	296.65	441.52	17.000	431.80				
				1.750	44.45	341.41	508.15	16.500	419.10				
				1.969	50.01	379.53	564.85	16.062	407.98				
				22 550	22.000 559	10 STD 20 XS 30 60 80 100 120 140 160	10S 40S 80S	0.218	5.54	50.76	75.55	21.564	547.92
								0.250	6.35	58.13	86.55	21.500	546.30
0.375	9.53	86.69	129.14					21.250	539.94				
0.500	12.70	114.92	171.10					21.000	533.60				
0.875	22.23	197.60	294.27					20.250	514.54				
1.125	28.58	251.05	373.85					19.750	501.84				
1.375	34.93	303.16	451.45					19.250	489.14				
1.625	41.28	353.94	527.05					18.750	476.44				
1.875	47.63	403.38	600.67					18.250	463.74				
2.125	53.98	451.49	672.30					17.750	451.04				

The suffix 'S' after the schedule number indicates that the pipe dimensions and weight are in compliance with this stainless steel pipe specification ANSI/ASME B36.19M-1985, and not the more general ANSI/ASME B36.10M-1995 specification.







**PIPE DIMENSIONS AND WEIGHTS**

**U.S./METRIC**

NOMINAL PIPE SIZE	OD	SCHEDULE DESIGNATIONS		WALL THICKNESS		WEIGHT		ID		
				INCH	MM	LBS/FOOT	KG/METER	INCH	MM	
24 600	24.000 610	10	10S	0.250	6.35	63.47	94.53	23.500	597.30	
				0.375	9.53	94.71	141.12	23.250	590.94	
		STD	20	40S	0.500	12.70	125.61	187.07	23.000	584.60
					0.562	14.27	140.81	209.65	22.876	581.46
		XS	30	80S	0.688	17.48	171.45	255.43	22.624	575.04
					0.969	24.61	238.57	355.28	22.062	560.78
		40	60	80	1.219	30.96	296.86	442.11	21.562	548.08
					1.531	38.89	367.74	547.74	20.938	532.22
		60	80	100	1.812	46.02	429.79	640.07	20.376	517.96
					2.062	52.37	483.57	720.19	19.876	505.26
120	140	160	2.344	59.54	542.64	808.27	19.312	490.92		
26 650	26.000 660	10	40S	0.312	7.92	85.68	127.36	25.376	644.16	
				0.375	9.53	102.72	152.88	25.250	640.94	
		STD	80S	0.500	12.70	136.30	202.74	25.000	634.60	
28 700	28.000 711	10	40S	0.312	7.92	92.35	137.32	27.376	695.16	
				0.375	9.53	110.74	164.86	27.250	691.94	
		STD	20	80S	0.500	12.70	146.99	218.71	27.000	685.60
					0.625	15.88	182.90	272.23	26.750	679.24
30 750	30.000 762	10	40S	0.312	7.92	99.02	147.29	29.376	746.16	
				0.375	9.53	118.76	176.85	29.250	742.94	
		STD	20	80S	0.500	12.70	157.68	234.68	29.000	736.60
					0.625	15.88	196.26	292.20	28.750	730.24
32 800	32.000 813	10	40S	0.312	7.92	105.69	157.25	31.376	797.16	
				0.375	9.53	126.78	188.83	31.250	793.94	
		STD	20	80S	0.500	12.70	168.37	250.65	31.000	787.60
					0.625	15.88	209.62	312.17	30.750	781.24
		XS	40	0.688	17.48	230.29	342.94	30.624	778.04	
34 850	34.000 864	10	40S	0.312	7.92	112.36	167.21	33.376	848.16	
				0.375	9.53	134.79	200.82	33.250	844.94	
		STD	20	80S	0.500	12.70	179.06	266.63	33.000	838.60
					0.625	15.88	222.99	332.14	32.750	832.24
		XS	40	0.688	17.48	245.00	364.92	32.624	829.04	
36 900	36.000 914	10	40S	0.312	7.92	119.03	176.97	35.376	898.16	
				0.375	9.53	142.81	212.57	35.250	894.94	
		STD	80S	0.500	12.70	189.75	282.29	35.000	888.60	
42 1050	42.000 1067	STD	XS	0.375	9.53	166.86	248.53	41.250	1047.94	
				0.500	12.70	221.82	330.21	41.000	1041.60	
		XS	80S	0.625	15.88	276.44	411.64	40.750	1035.24	
				0.750	19.05	330.72	492.33	40.500	1028.90	
48 1200	48.000 1219	STD	XS	0.375	9.53	190.92	284.25	47.250	1199.94	
				0.500	12.70	253.89	377.81	47.000	1193.60	

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# Stainless Steel Butt-Weld Fittings





## Stainless Steel Buttweld Fittings Material A403 / SA403

Trade Name	Grade	UNS #	Butt Weld Fittings
304	WP304	S30400	A403* / SA403*
304L	WP304L	S30403	A403* / SA403*
304H	WP304H	S30409	A403* / SA403*
316	WP316	S31600	A403* / SA403*
316L	WP316L	S31603	A403* / SA403*
316H	WP316H	S31609	A403* / SA403*
321	WP321	S32100	A403* / SA403*
321H	WP321H	S32109	A403* / SA403*
347	WP347	S34700	A403* / SA403*
347H	WP347H	S34709	A403* / SA403*
317L	WP317L	S31703	A403* / SA403*

\* Materials in industry standard designations: 5S, 10S, 40S, 80S per B36.19  
 \* Several grades of austenitic stainless steel alloys are included in this specification.  
 Grades are designated with a prefix, based on the applicable ASTM/ASME or MSS standards.  
 For each of the WP stainless grades

### Fitting Classes for WP Grades

CR	Corrosion resistant grade. S through WU Classes do not apply.
WP-	SSeamless.
WP-W	Welded, RT or UT all pipe starting material welds made with filler metal. All fitting manufacturer welds except as excluded in A/SA403 paragraph 5.4.3. If UT is substituted for RT, all welds must be examined 100% for their length as required by A/SA403 paragraph 5.6.
WP-WXRT	all welds with or without filler metal.
WP-WUUT	all welds with or without filler metal.
WPgrade-grade-class	Insert grades (304-304L) and class (S,W,WX, or WU). Applies to fittings meeting all chemical and physical requirements of both grades.

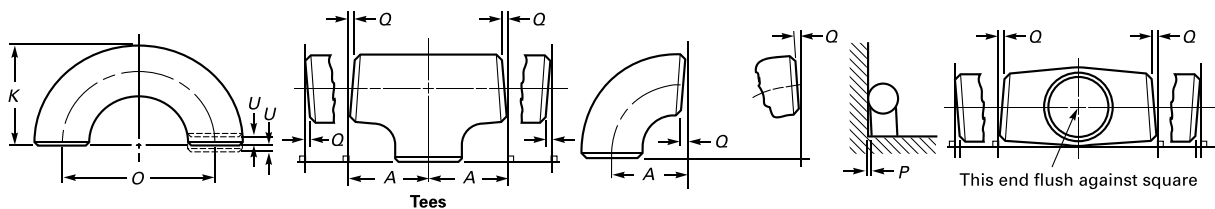
\* ON REQUEST  
 Duplex & Super Duplex  
 A815 UNS S31803, S32205, UNS S32750, S32760



# 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, DI, 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	I
80-90	3-3.1/2	1.6	1.6		2	2	3	6	6	I
100	4	1.6	1.6		2	2	3	6	6	I
125-200	5-8	+2.4, -1.6	1.6		2	2	6	6	6	I
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 \_\_\_\_\_



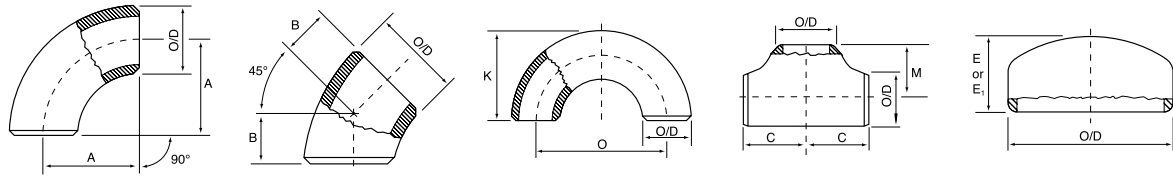
## Angularity Tolerance of Butt-Welding Fittings

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





# 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	
15	1/2	5S	38	0.05	16	-	-	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	-	-	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	25	0.08	76	56	0.22	38	0.18	38	4.57	38	-	0.08	
		10S		0.14						0.09		0.27					0.29	0.09
		40S		0.16						0.11		0.30					0.30	0.13
		80S		0.22						0.14		0.42					0.39	0.13
		160		0.30						0.20		0.60					0.54	0.18
		XXS		0.44						0.28		0.78					0.77	0.26
32	1-1/4	5S	48	0.14	25	32	0.14	95	70	0.34	48	0.34	38	4.83	38	-	0.09	
		10S		0.23						0.11		0.45					0.50	0.13
		40S		0.25						0.17		0.60					0.60	0.17
		80S		0.40						0.23		0.70					0.68	0.18
		160		0.52						0.39		0.90					0.90	0.23
		XXS		0.80						0.45		1.28					1.36	0.35
40	1-1/2	5S	57	0.17	29	38	0.20	114	83	0.48	57	0.43	38	5.08	38	-	0.10	
		10S		0.31						0.17		0.60					0.68	0.14
		40S		0.40						0.23		0.81					0.86	0.23
		80S		0.51						0.29		1.02					1.02	0.25
		160		0.72						0.40		1.40					1.43	0.34
		XXS		1.03						0.57		1.80					2.05	0.49
50	2	5S	76	0.29	35	51	0.29	152	106	0.80	64	0.55	38	5.59	44	-	0.16	
		10S		0.51						0.25		1.05					0.85	0.17
		40S		0.71						0.40		1.32					1.29	0.27
		80S		0.91						0.51		1.92					1.59	0.34
		160		1.43						0.80		2.80					2.50	0.53
		XXS		1.82						1.03		3.40					3.18	0.68
65	2-1/2	5S	95	0.68	44	64	0.57	190	132	1.20	76	0.98	38	7.11	51	-	0.23	
		10S		0.85						0.48		1.59					1.41	0.25
		40S		1.36						0.77		2.52					2.20	0.45
		80S		1.82						1.00		3.42					3.14	0.51
		160		2.47						1.34		4.60					4.26	0.67
		XXS		3.64						1.99		6.20					6.27	1.02

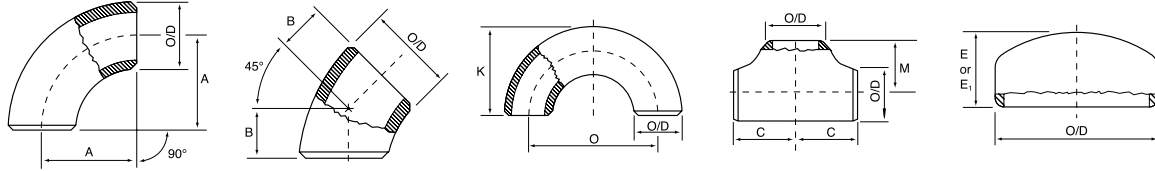
**Note:**

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- 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"





# 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	980	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		-		-		-			-		-				-

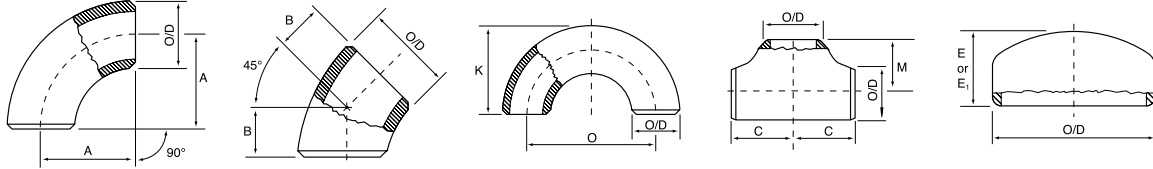
**Note:**

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# Buttweld Fittings Weights & Dimensions



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>1</sup>	Limiting W II	E <sub>1</sub> <sup>2</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		-		-		-			-		-				-

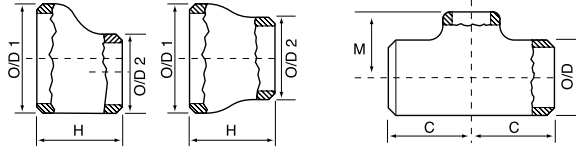
**Note:**

- 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"





# 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	57	57	57	0.11	
		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	57	57	57	0.12	
		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	64	44	44	0.15	
		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	64	51	51	0.17	
		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	64	60	60	0.19	
		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	76	57	57	0.25	
		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:**

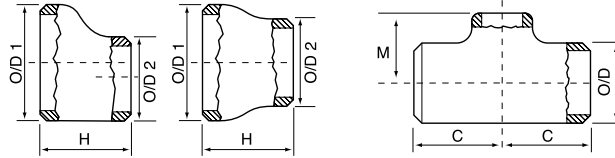
1. Weights and dimensions listed above are a guide only. Dimensions in mm. Weights in kg.
2. There are 2 possible dimensions for this size, refer to ANSI B16.9







# 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
65 X 40	2-1/2 X 1-1/2	5S	89	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	5S	89	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	5S	89	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	5S	89	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	5S	89	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	5S	102	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	5S	102	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	5S	102	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	5S	102	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	5S	127	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	5S	127	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	5S	140	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

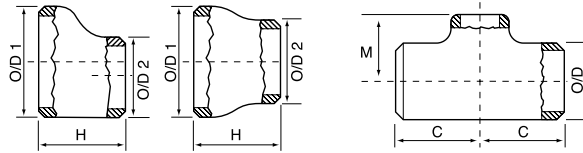
**Note:**

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- 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
				1.96			7.12
				4.09			9.70
				5.97			12.00
				9.91			19.92
				11.95			24.00
150 X 125	6 X 5	5S	140	1.64	143	137	7.04
				2.02			7.28
				4.31			9.92
				6.27			12.27
				10.40			20.37
				12.54			24.55
200 X 100	8 X 4	5S	152	2.16	178	156	12.12
				3.02			13.49
				6.56			18.02
				9.25			24.24
				16.75			43.77
				16.20			42.23
200 X 125	8 X 5	5S	152	2.21	178	162	12.40
				3.09			13.80
				6.72			18.44
				9.69			24.80
				17.50			44.77
				16.96			43.18
200 X 150	8 X 6	5S	152	2.30	178	168	12.68
				3.20			14.11
				6.96			18.86
				10.15			25.36
				18.32			45.91
				17.75			44.18
250 X 100	10 X 4	5S	178	3.79	216	184	21.25
				4.74			23.25
				10.54			30.14
				12.58			42.50
				28.32			95.45
				-			-

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
				4.90			23.06
				10.89			30.49
				14.27			43.00
				32.09			96.36
				-			-
250 X 150	10 X 6	5S	178	4.01	216	194	22.00
				5.01			23.60
				11.15			31.20
				14.82			44.00
				33.32			98.64
				-			-
250 X 200	10 X 8	5S	178	4.17	216	194	22.50
				5.21			24.14
				11.58			31.91
				15.61			45.00
				35.05			100.91
				-			-
300 X 150	12 X 6	5S	203	6.37	254	219	32.45
				7.45			34.01
				15.51			53.64
				20.19			72.27
				52.73			189.09
				-			-
300 X 200	12 X 8	5S	203	6.57	254	229	33.20
				7.69			34.80
				16.02			54.55
				20.94			74.09
				54.55			193.64
				-			-
300 X 250	12 X 10	5S	203	6.83	254	241	33.95
				8.00			35.59
				16.67			55.91
				21.68			75.45
				56.36			197.73
				-			-

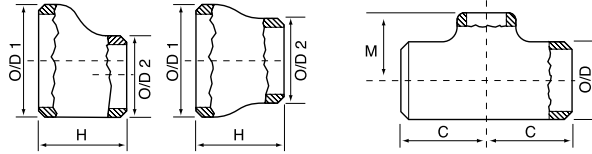
**Note:**

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- 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
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		-			-

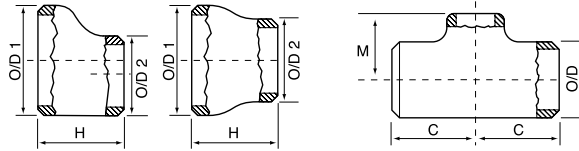
**Note:**

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- 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	508	381	346	5S	32.50	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	508	381	356	5S	32.95	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	508	381	356	5S	33.18	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	508	381	368	5S	34.32	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	508	419	381	5S	WOR	WOR
					10S	36.01	WOR
					40S	59.08	WOR
					80S	76.97	WOR
					160	-	-
					XXS	-	-
550 X 400	22 X 16	508	419	381	5S	WOR	78.00
					10S	38.01	130.23
					40S	62.40	130.23
					80S	81.25	169.22
					160	-	-
					XXS	-	-

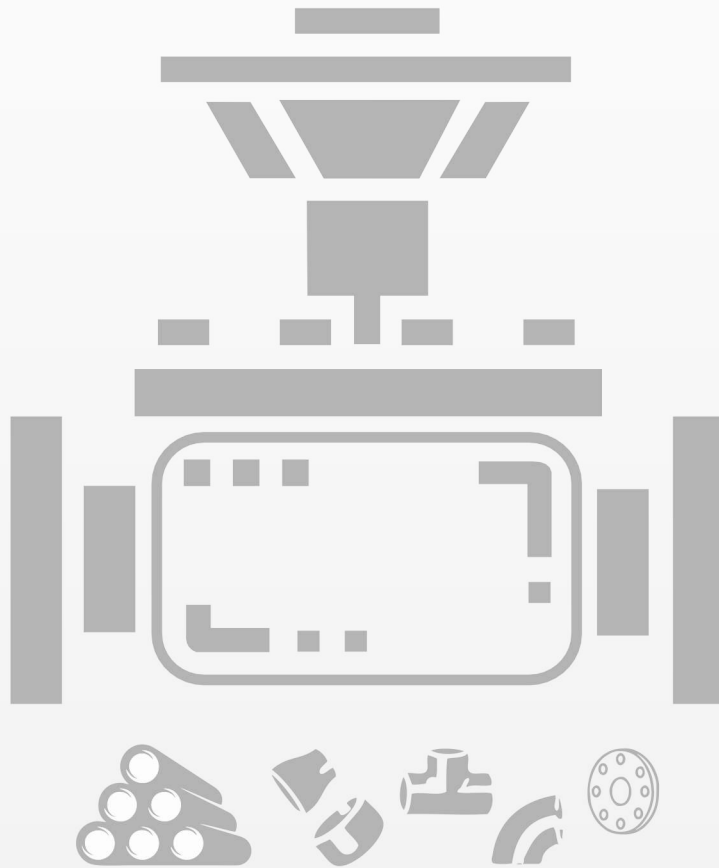
Nominal Size		WT SCH	Concentric and Eccentric Reducers		Reducing Tees		
mm OD1 X OD2	inch OD1 X OD2		H	Weight	C	M	Weight
550 X 450	22 X 18	508	419	394	5S	WOR	78.47
					10S	WOR	131.14
					40S	WOR	131.14
					80S	WOR	170.74
					160	-	-
					XXS	-	-
550 X 500	22 X 20	508	419	406	5S	WOR	78.94
					10S	42.01	132.06
					40S	68.94	132.06
					80S	89.80	172.88
					160	-	-
					XXS	-	-
600 X 400	24 X 16	508	432	406	5S	44.55	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	508	432	419	5S	45.45	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	508	432	432	5S	46.82	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	508	432	432	5S	WOR	98.59
					10S	52.91	141.16
					40S	75.53	141.16
					80S	98.36	184.53
					160	-	-
					XXS	-	-

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