



Balambigai Enterprises

Everything is possible



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Product Catalogue

For

Pipes, Fittings, Flanges, Round bars



Our Products / Material Grades

Copper Nickel

- Copper nickel pipe
- Copper Nickel 90/10 Pipe
- Copper Nickel 70/30 Pipe
- Copper Nickel Tube
- Copper Nickel 90/10 Tube
- Copper Nickel 70/30 Tube
- Copper Nickel Circles

- Copper Nickel Round Bar
- Copper Nickel 90/10 Round Bar
- Copper Nickel 70/30 Round Bar
- Copper Nickel Flat Bar
- Copper Nickel Hex Bar
- Copper Nickel Wire Mesh
- Copper Nickel Ferrule Fittings

- Copper Nickel plate
- Copper Nickel 90/10 plate
- Copper Nickel 70/30 plate
- Copper Nickel Flanges
- Copper Nickel 90/10 Flanges
- Copper Nickel 70/30 Flanges
- Copper Nickel Fin Tube

- Copper Nickel Pipe fittings

- Copper Nickel 90/10 Pipe fittings
- Copper Nickel 70/30 Pipe fittings
- Copper Nickel Forged Fittings

Titanium

- Titanium Pipe
- Titanium Grade 2 Pipe
- Titanium Grade 5 Pipe
- Titanium Tube
- Titanium Grade 2 Tube
- Titanium Grade 5 Tube
- Titanium Ferrule Fittings
- Titanium Round Bar
- Titanium Grade 2 Round Bar
- Titanium Grade 5 Round Bar
- Titanium Flat Bar
- Titanium Hex Bar
- Titanium Wire Mesh
- Titanium Circles
- Titanium Forged Fittings
- Titanium Sheet
- Titanium Grade 2 plate
- Titanium Grade 5 plate
- Titanium Flanges
- Titanium Grade 2 Flanges

- Titanium Grade 5 Flanges
- Titanium Fin Tube
- Titanium Pipe fittings
- Titanium Grade 2 Pipe fittings
- Titanium Grade 5 Pipe fittings

Duplex

- Duplex Pipe
- Duplex 2205 Pipe
- Duplex Tube
- Duplex wire mesh
- Duplex Plate
- Duplex 2205 plate
- Duplex Round Bar
- Duplex 2205 Round Bar
- Duplex Flat Bar
- Duplex Hex Bar
- Duplex Pipe Fittings
- Duplex 2205 Pipe fittings
- Duplex Flanges
- Duplex 2205 Flanges
- 254 SMO Flanges
- Duplex Forged Fittings
- Duplex Ferrule Fittings

Super Duplex

- Super Duplex Pipe
- Super Duplex 2507 Pipe
- Super Duplex Tube
- Super Duplex wire mesh
- Super Duplex Ferrule Fittings
- Super Duplex Round Bar
- Super Duplex 2507 Round Bar
- Super Duplex Flat Bar
- Super Duplex Hex Bar
- Super Duplex Pipe Fittings
- Super Duplex 2507 Pipe fittings
- Super Duplex Plate
- Super Duplex 2507 plate
- Super Duplex Flanges
- Super Duplex 2507 Flanges
- Super Duplex Forged Fittings

Stainless Steel

- Stainless Steel Pipe Fittings
- Stainless Steel 304 Pipe Fittings
- Stainless Steel 304L Pipe fittings
- Stainless Steel 316 Pipe Fittings
- Stainless steel 316L Pipe Fittings
- Stainless Steel 321 Pipe fittings

- Stainless Steel Flanges
- Stainless Steel 904L Flanges

- Stainless Steel Forged Fittings
- Stainless Steel Sanitary Tube
- Stainless Steel Sanitary Fittings
- Stainless Steel Angle
- Stainless Steel 904L Pipe
- Stainless steel 904l pipe fittings
- Stainless Steel 904L Plate
- Stainless Steel 904L Forged Fittings
- Stainless Steel 904L Ferrule Fittings

- Stainless Steel Round Bar
- Stainless Steel Bright Bar
- Stainless Steel 904L Round Bar
- Stainless Steel 317L Round Bar
- Stainless Steel 316 Round Bar
- Stainless Steel 316L Round Bar
- Stainless Steel 303 Round Bar
- Stainless Steel 304 Round Bar
- Stainless Steel 304L Round Bar
- Stainless Steel 904l Wire mesh
- Stainless Steel Hex Bar
- Stainless Steel Flat Bar
- Stainless Steel Square Bar
- ASTM A276 Bar

- Stainless Steel Sheet
- Stainless Steel Perforated Sheet

Alloy Steel

- Alloy Steel Round Bar
- ASTM A182 F1 Round bar
- ASTM A182 F11 Round bar
- ASTM A182 F22 Round bar
- ASTM A182 F91 Round bar
- ASTM A350 LF2 Round bar
- SAE 4140 Round Bar
- SAE 4130 Round Bar
- ASTM A105 Round Bar

Nickel Alloy

- Nickel Alloy Pipe Fittings
- Inconel Pipe Fittings
- Inconel 625 Pipe Fittings
- Inconel Plate
- Monel Plate
- Hastelloy plate
- Inconel Round Bar
- Monel Round Bar
- Hastelloy Round Bar
- Hastelloy Pipe Fittings
- Hastelloy C276 Pipe Fittings
- ASTM B564 UNS N08825 forged fittings

- ASTM B564 UNS N10276 forged fittings
- ASTM B564 UNS N06625 forged fittings
- Inconel Pipe
- Monel Pipe
- Hastelloy Pipe

- Incoloy Pipe Fittings
- Monel Pipe Fittings
- Monel 400 Pipe Fittings
- Inconel Forged Fittings
- Monel Forged Fittings
- Hastelloy Forged Fittings
- ASME B16.11 forged fitting

- Nickel Alloy Flanges
- Inconel Flanges
- Incoloy Flanges
- Inconel 625 Flanges
- Monel Flanges
- Monel 400 Flanges
- Hastelloy flanges
- Alloy 20 flanges

Brass

- Brass Sheet
- Brass Pipe
- Brass Rod
- Brass Fittings

Aluminium

- Aluminium Sheet

Copper

- Copper Sheet
- Copper Tube
- Copper Fittings

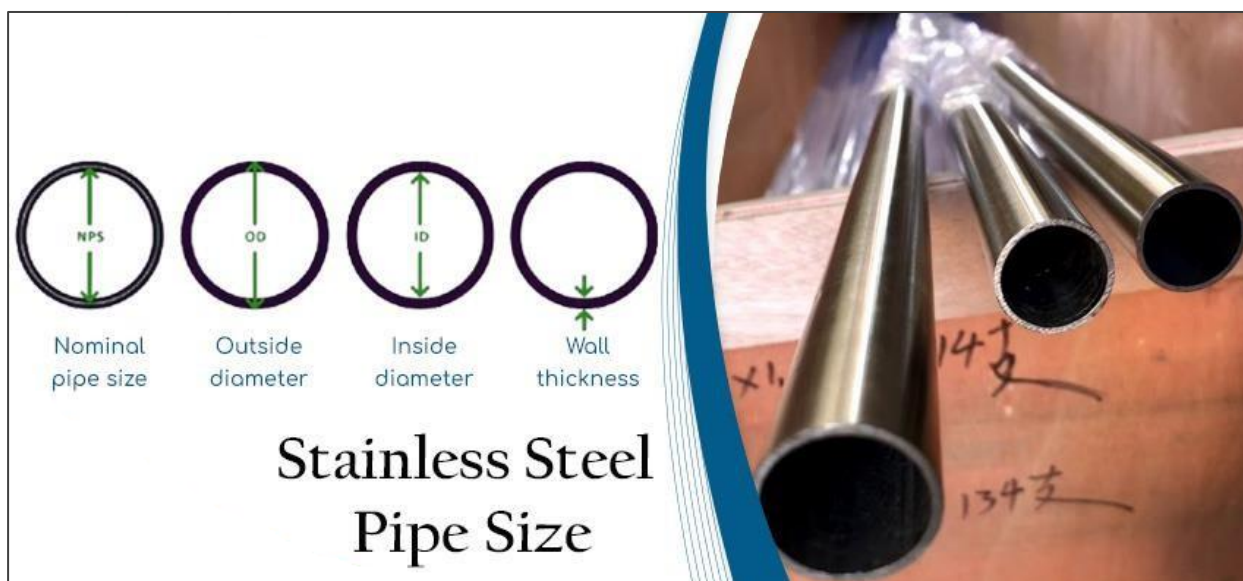
Ductile Iron

- Ductile Iron Pipe

Stainless Steel Pipe Size Chart



Stainless Steel Pipe Size Chart

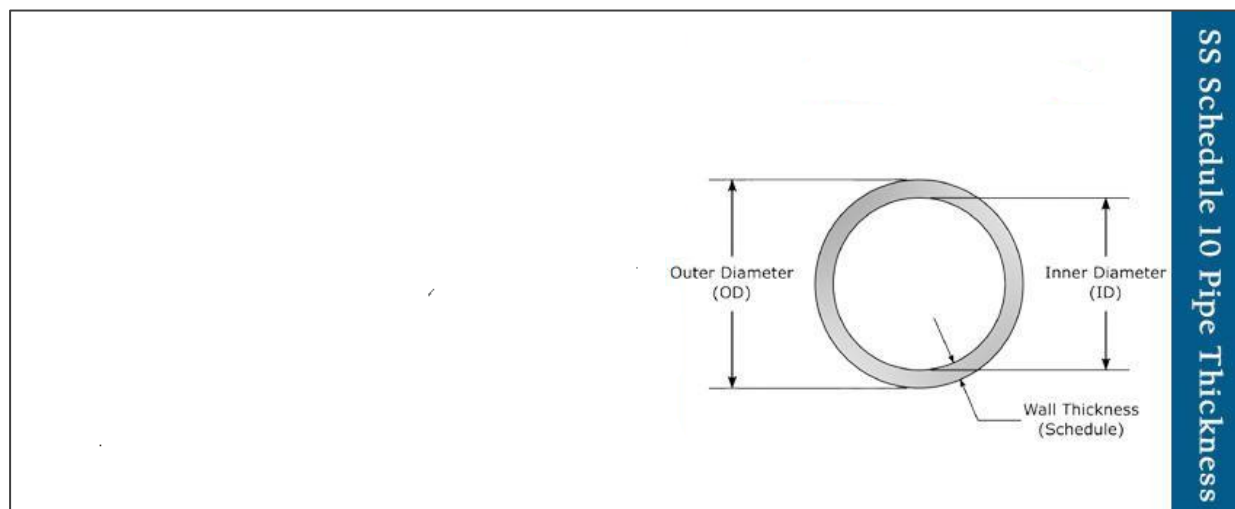


Nom Bore	mm		3	6	10	15	20	25	32
SS pipe size	INCH		01/8	01/4	03/8	01/2	03/4	1	1 1/4
Outside Dia	mm		10.3	13.7	17.1	21.3	26.7	33.4	42.2
Sch-5S	Wt	mm	1.24	1.24	1.24	1.65	1.65	1.65	1.65
	Weight	(Kg/mt)	0.276	0.39	0.49	0.8	1.03	1.3	1.65
Sch-10S	Wt	mm	1.24	1.65	1.65	2.11	2.11	2.77	2.77
	Weight	(Kg/mt)	0.28	0.49	0.63	1	1.28	2.09	2.7
Sch-40S	Wt	mm	1.73	2.24	2.31	2.77	2.87	3.38	3.56
	Weight	(Kg/mt)	0.37	0.631	0.845	1.27	1.68	2.5	3.38
Sch-80S	Wt	mm	2.41	3.02	3.2	3.75	3.91	4.55	4.85
	Weight	(Kg/mt)	0.47	0.8	1.1	1.62	2.2	3.24	4.47
Sch-160S	Wt	mm	-	-	-	4.75	5.54	6.35	6.35
	Weight	(Kg/mt)	-	-	-	1.94	2.89	4.24	5.61
Sch-XXS	Wt	mm	-	-	-	7.47	7.82	9.09	9.7

Nom Bore	mm		40	50	65	80	100	125
	INCH		1 1/2	2	2 1/2	3	4	5
Outside Dia	mm		48.3	60.3	73	88.9	114.3	141.3
Sch-5S	Wt	mm	1.65	1.65	2.11	2.11	2.11	2.77
	Weight	(Kg/mt)	1.91	2.4	3.69	4.51	5.84	9.47
Sch-10S	Wt	mm	2.77	2.77	3.05	3.05	3.05	3.4
	Weight	(Kg/mt)	3.11	3.93	5.26	6.45	8.36	11.57
Sch-40S	Wt	mm	3.68	3.91	5.16	5.49	6.02	6.55
	Weight	(Kg/mt)	4.05	5.44	8.63	11.3	16.07	21.8
Sch-80S	Wt	mm	5.08	5.54	7.01	7.62	8.56	9.53
	Weight	(Kg/mt)	5.41	7.48	11.4	15.2	22.3	31.97
Sch-160S	Wt	mm	7.14	8.74	9.53	11.1	13.49	15.88
	Weight	(Kg/mt)	7.25	11.1	14.9	21.3	33.54	49.11
Sch-XXS	Wt	mm	10.16	11.07	14.2	15.24	17.12	19.05
	Weight	(Kg/mt)	9.54	13.44	20.39	27.65	41.03	57.43

Nom Bore	mm		150	200	250	300	350	400
	INCH		6	8	10	12	14	16
Outside Dia	mm		168.3	219.1	273.1	323.9	355.6	406.4
Sch-5S	Wt	mm	2.77	2.77	3.4	3.96	3.96	4.19
	Weight	(Kg/mt)	11.32	14.79	22.63	31.25	34.36	41.56
Sch-10S	Wt	mm	3.4	3.76	4.19	4.57	4.78	4.78
	Weight	(Kg/mt)	13.84	19.96	27.78	36	41.3	47.29
Sch-40S	Wt	mm	7.11	8.18	9.27	9.52	11.13	12.7
	Weight	(Kg/mt)	28.3	42.6	60.5	73.88	94.59	123.3
Sch-80S	Wt	mm	10.97	12.7	12.7	12.7	19.05	21.41
	Weight	(Kg/mt)	42.7	64.6	96	132	158.08	203.33
Sch-160S	Wt	mm	18.2	23	28.6	33.32	35.71	40.46
	Weight	(Kg/mt)	67.56	111.2	172.4	238.76	281.7	365.11
Sch-XXS	Wt	mm	21.95	22.23	25.4	25.4	-	-
	Weight	(Kg/mt)	79.22	107.8	155.15	186.97	-	-

SS Schedule 10 Pipe Thickness



Nom size (inches)	OD (mm)	Wall thickness (mm)
1/4" NPS8	13.7	1.65
1/8" NPS6	10.3	1.24
3/8" NPS10	17.1	1.65
3/4" NPS20	26.7	2.11
1/2" NPS15	21.3	2.11
1 1/2" NPS40	48.3	2.77
1" NPS25	33.4	2.77
2 1/2" NPS65	73	3.05
2" NPS50	60.3	2.77
3" NPS80	88.9	3.05
4" NPS100	114.3	3.05
3 1/2" NPS90	101.6	3.05
5" NPS125	141.3	3.4
8" NPS200	219.1	3.76

Nom size (inches)	OD (mm)	Wall thickness (mm)
16" NPS400	406.4	6.35
14" NPS350	355.6	6.35
18" NPS450	457	6.35
22" NPS550	559	6.35
20" NPS500	508	6.35
24" NPS600	610	6.35
28" NPS700	711	7.92
26" NPS650	660	7.92
32" NPS800	813	7.92
30" NPS750	762	7.92
36" NPS900	914	7.92
34" NPS850	864	7.92

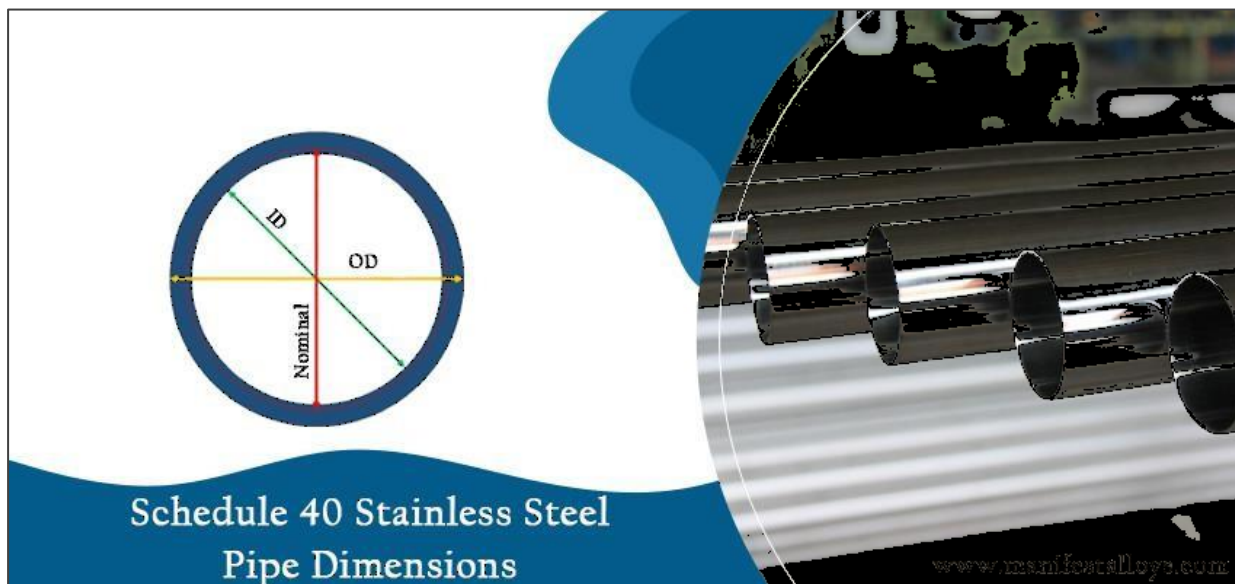
Stainless Steel Welded Pipe Pressure Rating

Pipe Size (in)	OD (in)	Wt (in)	Pressure Rating (psig)							
SS Pipe Thickness			Temperature °F							
			200	100	400	300	600	500	700	650
			Allowable Stress (psi)							
			1670	1670	1550	1670	1350	1440	1290	1320
1"	1.315	0.179	3061	3061	3061	2841	2475	2640	2420	2310
	1.315	0.133	2205	2205	2205	2047	1783	1902	1743	1664
	1.315	0.25	4493	4493	4493	4170	3632	3874	3552	3390
1 1/2"	1.9	0.2	2303	2303	2303	2138	1862	1986	1821	1738
	1.9	0.145	1629	1629	1629	1512	1317	1404	1287	1229
	1.9	0.281	3362	3362	3362	3120	2717	2899	2657	2536
2"	2.375	0.218	1985	1985	1985	1843	1605	1712	1569	1498
	2.375	0.154	1371	1371	1371	1272	1108	1182	1083	1034
	2.375	0.344	3283	3283	3283	3047	2654	2831	2595	2477

Pipe Size (in)	OD (in)	Wt (in)	Pressure Rating (psig)							
SS Pipe Size			Temperature °F							
			200	100	400	300	600	500	700	650
			Allowable Stress (psi)							
			1670	1670	1550	1670	1350	1440	1290	1320
3"	3.5	0.3	1844	1844	1844	1712	1491	1590	1458	1391
	3.5	0.216	1301	1301	1301	1208	1052	1122	1028	982
	3.5	0.438	2787	2787	2787	2587	2253	2403	2203	2103
4"	4.5	0.337	1596	1596	1482	1596	1291	1377	1233	1262
	4.5	0.237	1102	1102	1023	1102	891	950	851	871
	4.5	0.531	2611	2611	2424	2611	2111	2552	2017	2064
5"	5.563	0.375	1428	1428	1325	1428	1154	1231	1103	1129
	5.563	0.258	965	965	896	965	780	832	746	763
	5.563	0.625	2474	2474	2296	2474	2000	2133	1911	1955

Pipe Size (in)	OD (in)	Wt (in)	Pressure Rating (psig)							
SS Pipe Thickness			Temperature °F							
			200	100	400	300	600	500	700	650
			Allowable Stress (psi)							
			1670	1670	1550	1670	1350	1440	1290	1320
6"	6.625	0.432	1379	1379	1280	1379	1115	1189	1065	1090
	6.625	0.28	877	877	814	877	709	756	677	693
	6.625	0.719	2382	2382	2211	2382	1925	2054	1840	1883
8"	8.625	0.5	1218	1218	1131	1218	985	1050	941	963
	8.625	0.322	771	771	716	771	623	665	596	610
	8.625	0.906	2298	2298	2133	2298	1858	1982	1775	1817
10"	10.75	0.594	1159	1159	1075	1159	937	999	895	916
	10.75	0.365	699	699	649	699	565	603	540	553
	10.75	1.125	2289	2289	2124	2289	1850	1974	1768	1809

Schedule 40 Stainless Steel Pipe Dimensions



NPS	Wall Thickness	OD	Weight (kg/m)
Schedule 40 stainless steel pipe dimensions mm			
(inches)	(mm)	(mm)	
1" DN25	3.38	33.4	2.52
¾" DN20	2.87	26.7	1.7
½" DN15	2.77	21.3	1.27
1 ¼" DN32	3.56	42.2	3.41
2" DN50	3.91	60.3	5.47
1 ½" DN40	3.68	48.3	4.08
2 ½" DN65	5.16	73	8.69
3 ½"	5.74	101.6	13.66

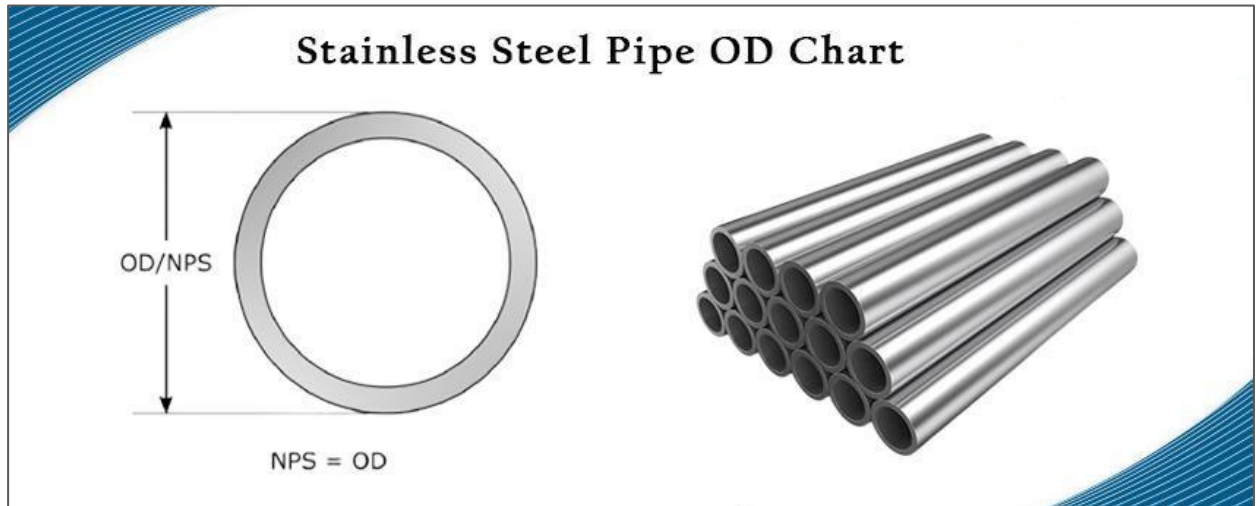
NPS	Wall Thickness	OD	Weight (kg/m)
SS Pipe Dimensions			
(inches)	(mm)	(mm)	
3" DN80	5.49	88.9	11.36
4" DN100	6.02	114.3	16.18
6" DN150	7.11	168.3	28.44
5" DN125	6.55	141.3	21.91
8" DN200	8.18	219.1	42.82
12" DN300	9.53	323.9	74.28
10" DN250	9.27	273.1	60.7

SS Tube Thickness Chart in mm

Tube OD (mm)	Tube OD (inch)	Wt (mm)	Wt (inch)	BWG
4.78	0.188	0.89	0.035	20
12.7	0.5	0.89	0.035	20
		1.25	0.049	18
		1.65	0.65	16
6.35	0.25	0.51	0.02	
		0.71	0.028	22
		0.89	0.035	20
		1.25	0.049	18
		1.65	0.065	16
7.95	0.313	0.89	0.035	20
		1.25	0.049	18
31.75	1.25	2.11	0.083	14
		3.05	0.12	11
		1.65	0.065	16
9.53	0.375	0.89	0.035	20
		0.71	0.028	22
		1.65	0.065	16
		1.25	0.049	18
15.88	0.625	1.25	0.049	18

Tube OD (inch)	Tube OD (mm)	Wt (inch)	Wt (mm)	BWG
1.875	47.63	0.065	1.65	16
1.375	34.93	0.035	0.89	20
1.5	38.1	0.083	2.11	14
		0.065	1.65	16
		0.049	1.25	18
		0.12	3.05	11
1.75	44.45	0.065	1.65	16
		0.035	0.89	20
		0.083	2.11	14
1.125	28.58	0.065	1.65	16
2	50.8	0.065	1.65	16
		0.049	1.25	18
		0.12	3.05	11
		0.083	2.11	14
2.125	53.98	0.065	1.65	16
2.25	57.15	0.12	3.05	11
		0.065	1.65	16
		0.083	2.11	14
2.5	63.5	0.083	2.11	14
		0.065	1.65	16
4.25	108	0.12	3.05	11
3	76.2	0.065	1.65	16
		0.049	1.25	18
		0.12	3.05	11
		0.083	2.11	14

Stainless Steel Pipe OD Chart



Pipe Sizes		10	8	11	9	12
OD (inch)		10.75	8.625	11.75	9.625	12.75
Pipe Schedule	5s	.13415.19	.1099.914			.15621.07
	5	.13415.19	.1099.914			.16522.18
	10s	.16518.65	.14813.40			.18024.16
	10	.16518.70	.14813.40			.18024.20
	20	.25028.04	.25022.36			.25033.38
	30	.30734.24	.27724.70			.33043.77
	40s & Std.	.36540.48	.32228.55	.37545.55	.34233.90	.37549.56
	40	.36540.48	.32228.55			.40653.53
	60	.50054.74	.40635.64			.56273.16
	80s & E.H.	.50054.74	.50043.39	.50060.07	.50048.72	.50065.42
	80	.59364.33	.50043.39			.68788.51
	100	.71876.93	.59350.87			.843107.20
	120	.84389.20	.71860.93			1.000125.50
	140	1.000104.10	.81267.76			1.125139.70

Pipe Size		16	14	20	18	24	22
OD (inch)		16	14	20	18	24	22
Pipe Sched ules	5s	.16527.9 0	.15623. 0 7	.18839.7 8	.16531.4 3	.21855.3 7	.18843.8 0
	10s	.18831.7 5	.18827. 7 3	.21846.0 5	.18835.7 6	.25063.4 1	.21850.7 1
	20	.31252.3 6	.31245. 3 8	.37578.6 0	.31259.0 3	.37594.6 2	.37586.6 1
	10	.25042.0 5	.25036. 7 1	.25052.7 3	.25047.3 9	.25063.4 1	.25058.0 7
	30	.37562.5 8	.37554. 5 7	.500104. 1 0	.43782.0 6	.562140. 8 0	.500114. 8 1
	40	.50082.7 7	.43763. 3 7	.593122. 9 0	.562104. 2 0	.687171. 2 0	
	40s & Std .	.37562.5 8	.37554. 5 7	.37578.6 0	.37570.5 9	.37594.6 2	.37586.6 1
	60	.656107. 5 0	.59384. 9 1	.812166. 4 0	.750138. 2 0	.968238. 1 0	.875197. 4 1

Stainless Steel 304 Pipe Weight Chart

Weight & Thickness Of SS Guage Pipes						
	DIMENSION	Size	1/2"	5/8"	3/4"	1"
10 SWG		OD	12.7	15.875	19.05	25.4
12 SWG	3.2 mm	Weight/MTR	0.754	1.006	1.258	1.762
16 SWG	2.1 mm		0.552	0.718	0.883	1.214
14 SWG	2.6 mm		0.651	0.856	1.061	1.47
18 SWG	1.65 mm		0.452	0.582	0.712	0.972
	1.0 mm		0.29	0.369	0.448	0.605
19 SWG	1.2 mm		0.342	0.437	0.531	0.72
10 SWG			OD	31.75	38.1	50.8
12 SWG	3.2 mm	Weight/MTR	2.266	2.77	3.778	4.786
16 SWG	2.1 mm		1.544	1.875	2.537	3.198
14 SWG	2.6 mm		1.88	2.289	3.108	3.928
18 SWG	1.65 mm		1.232	1.492	2.012	2.531
	1.0 mm		0.763	0.92	1.235	1.55
19 SWG	1.2 mm		0.909	1.098	1.476	1.854
Check above ss pipe weight chart before buying the material						

Stainless Steel Tube Tolerance Chart



Specification			ASTM- A213	Heat Exchanger	Seamless Boiler	Superheater and
Allowable OD	Variation (mm)	Nomi	Under 25.4	50.8-63.5 excl	25.4-38.1 incl	38.1-50.8 excl
		Over	0.1016	0.254	0.1524	0.2032
		Under	0.1016	0.254	0.1524	0.2032
Allowable Wall Thck		%Ove	20	22	22	22
	Thickness Variat ion	%Und	0	0	0	0
Exact Length	Tolerance in mm	Over	3.175	4.46	3.175	3.176
		Under	0	0	0	0
Testing		Flatte ing Test	Tension Test		Flare Test	Hardness Test

Specification			Tubes		ASTM-A249	
Allowable OD	Variation in mm	Nominal Diameter	63.5 to 76.2 excl	76.2 to 101.6 incl	25.4 to 38.1 incl	Under 25.4
		Over	0.3048	0.381	0.1524	0.1016
		Under	0.3048	0.381	0.1524	0.1016
Allowable Wall Thck		%Over	22	22	10	10
	Thickness Variation	%Under	0	0	-10	-10
Exact Length	Tolerance in mm	Over	4.76	4.76	3.175	3.175
		Under	0	0	0	0
Testing		Flattening Test	100% Hydrostatic test	Refer to ASTM A-450	Tension Test	

Duplex Stainless Steel Pressure Temperature Rating



- EN 13480
- ASME B 31.3
- DIN 2413
- RN 78

Duplex Stainless Steel Pressure Temperature Rating



Size	Grade	Max internal pressure (bar) EN 13480-3								
		20°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.59 x 0.36	2507	1601	1601	1537	1425	1345	1297	-	-	-
	2205	1281	1281	1152	1072	992	944	-	-	-
	254 SMO	1088	979	864	784	720	678	640	624	608
3 x 0.5	2507	1176	1176	1129	1047	988	952	-	-	-
	2205	941	941	847	788	729	694	-	-	-
	254 SMO	800	720	635	576	529	498	470	458	447
3.18 x 0.71	2507	1576	1576	1513	1403	1324	1277	-	-	-
	2205	1261	1261	1135	1056	977	930	-	-	-
	254 SMO	1072	964	851	772	709	668	630	614	599
6 x 1	2507	1176	1176	1129	1047	988	952	-	-	-
	2205	941	941	847	788	729	694	-	-	-
	254 SMO	800	720	635	576	529	498	470	458	447
6.35 x 1.24	2507	1421	1421	1364	1265	1194	1151	-	-	-
	2205	1137	1137	1023	952	881	838	-	-	-
	254 SMO	966	869	767	696	639	602	568	554	540
8 x 1	2507	845	845	811	752	709	684	-	-	-
	2205	676	676	608	566	523	498	-	-	-
8 x 2	254 SMO	574	517	456	414	380	358	338	329	321
	2507	1785	1785	1713	1588	1499	1445	-	-	-
	2205	1428	1428	1285	1195	1106	1053	-	-	-
	254 SMO	1213	1092	963	874	803	756	714	696	678



Size	Grade	Max internal pressure (bar) ASME B31.3						
		100°F	200°F	300°F	400°F	500°F	600°F	700°F
1.59 x 0.36	2507	1281	1202	1152	1126	1122	1122	-
	2205	993	993	957	920	900	890	-
3 x 0.5	2507	909	853	817	799	796	796	-
	2205	705	705	679	653	639	632	-
3.18 x 0.71	2507	1262	1183	1134	1108	1105	1105	-
	2205	978	978	942	906	887	877	-
6 x 1	2507	909	853	817	799	796	796	-
	2205	705	705	679	653	639	632	-
6.35 x 1.24	2507	1088	1020	978	956	953	953	-
	2205	843	843	812	781	764	756	-
8 x 1	2507	659	618	593	579	577	577	-
	2205	511	511	492	473	463	458	-
8 x 2	2507	1428	1340	1284	1255	1251	1251	-
	2205	1107	1107	1067	1026	1004	993	-

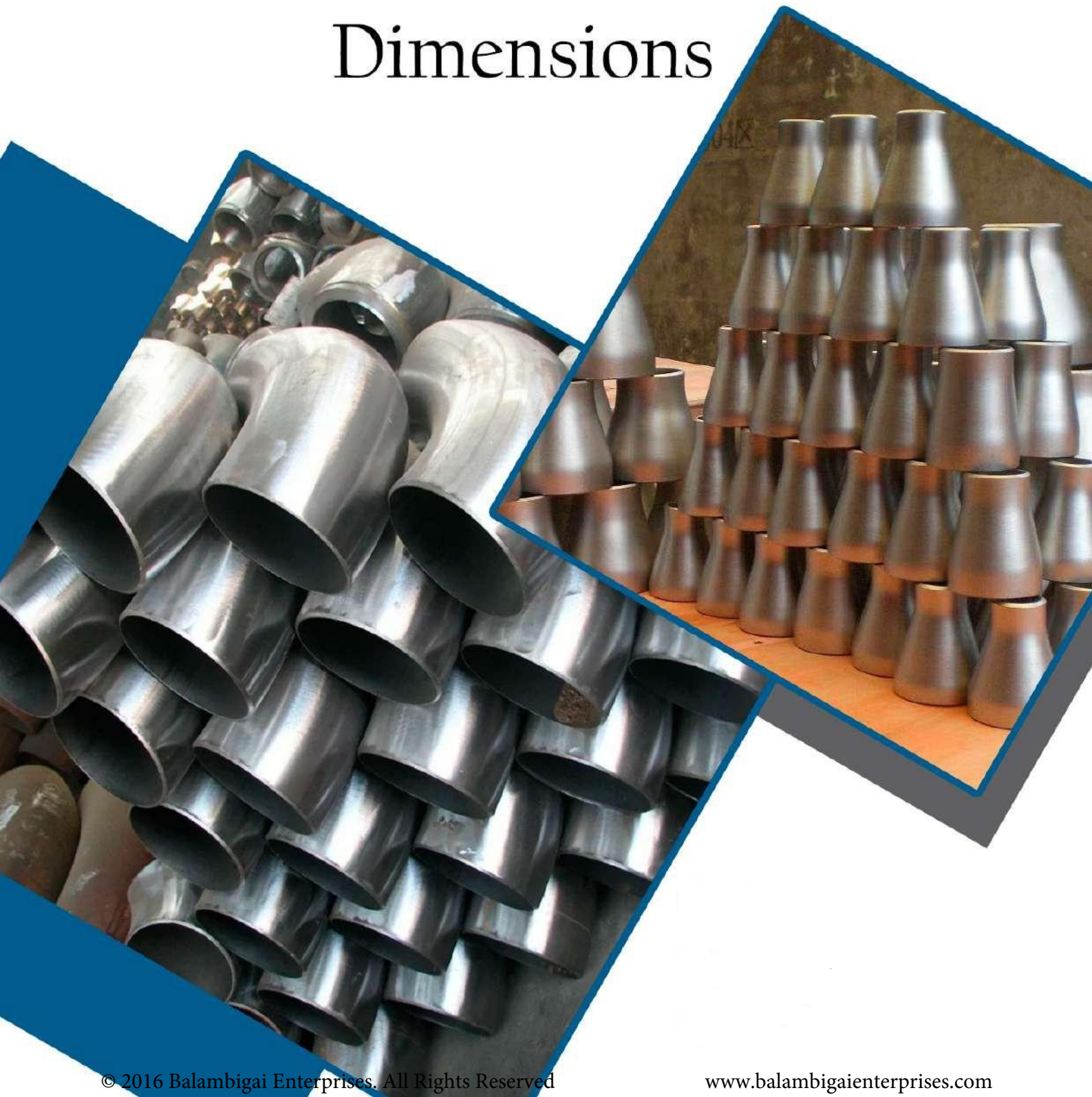


Size	Grade	Max internal pressure (bar) DIN 2413							
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.59 x 0.36	2507	1400	1222	1412	1333	1285	-	-	-
	2205	1175	940	1090	1009	960	-	-	-
3 x 0.5	2507	1400	1222	1412	1333	1285	-	-	-
	2205	1175	940	1090	1009	960	-	-	-
3.18 x 0.71	2507	1381	1205	1396	1317	1270	-	-	-
	2205	1159	927	1077	997	949	-	-	-
6 x 1	2507	1031	900	981	926	893	-	-	-
	2205	865	692	757	701	667	-	-	-
6.35 x 1.24	2507	1208	1054	1186	1119	1079	-	-	-
	2205	1013	811	915	847	806	-	-	-
8 x 1	2507	773	675	705	665	641	-	-	-
	2205	649	519	544	503	479	-	-	-
8 x 2	2507	1546	1350	1532	1446	1394	-	-	-
	2205	1298	1038	1183	1094	1041	-	-	-

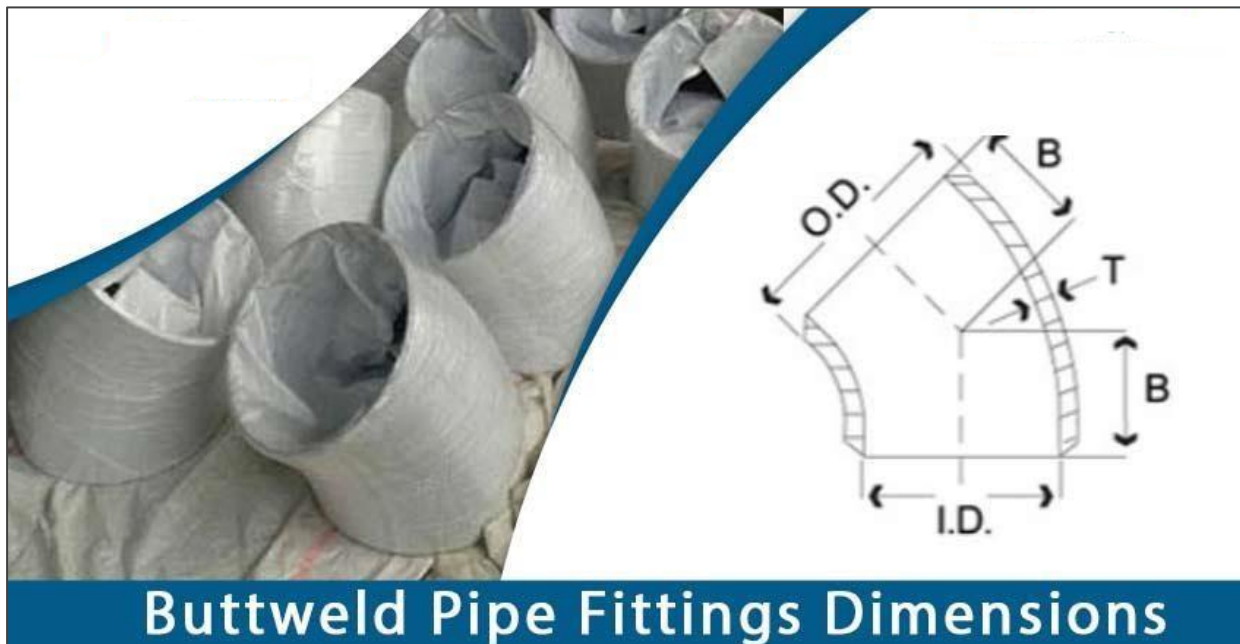


Size	Grade	Max internal pressure(bar) RN 78							
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.59 x 0.36	2507	1826	1593	1477	1394	1344	-	-	-
	2205	1494	1195	1112	1029	979	-	-	-
3 x 0.5	2507	1294	1129	1047	988	952	-	-	-
	2205	1058	847	788	729	694	-	-	-
3.18 x 0.71	2507	1803	1574	1459	1377	1328	-	-	-
	2205	1475	1180	1098	1016	967	-	-	-
6 x 1	2507	1803	1574	1459	1377	1328	-	-	-
	2205	1475	1180	1098	1016	967	-	-	-
6.35 x 1.24	2507	1563	1364	1265	1194	1151	-	-	-
	2205	1279	1023	952	881	838	-	-	-
8 x 1	2507	1563	1364	1265	1194	1151	-	-	-
	2205	1279	1023	952	881	838	-	-	-
8 x 2	2507	1989	1735	1609	1518	1464	-	-	-
	2205	1627	1301	1211	1121	1066	-	-	-

Buttweld Pipe Fittings Dimensions

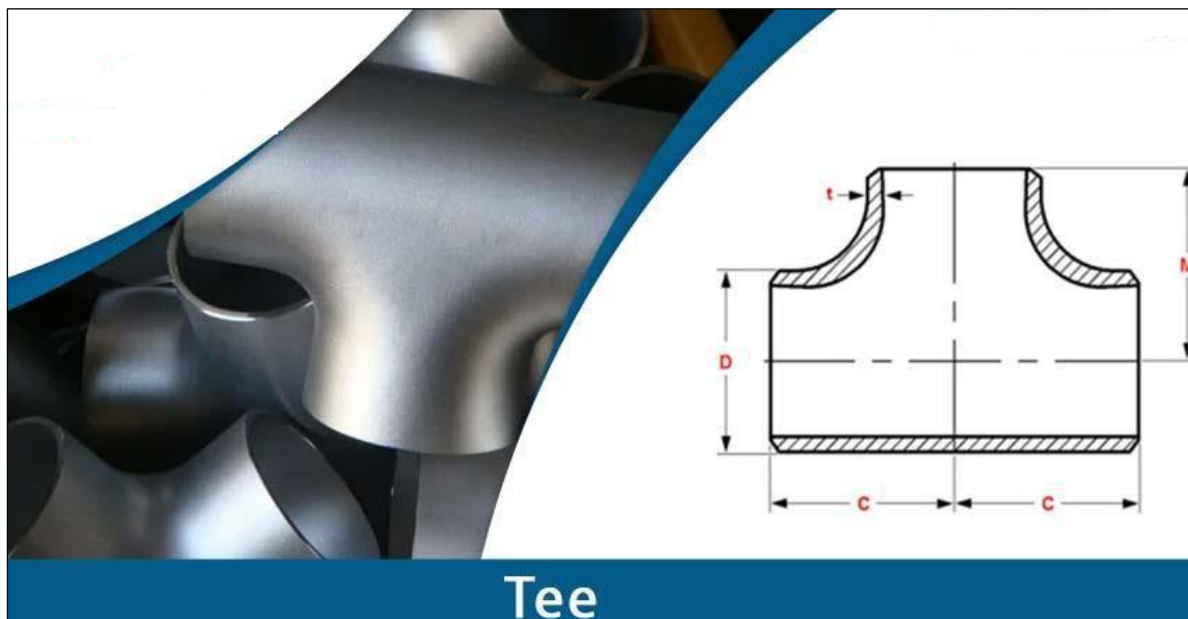


Buttweld Pipe Fittings Dimensions



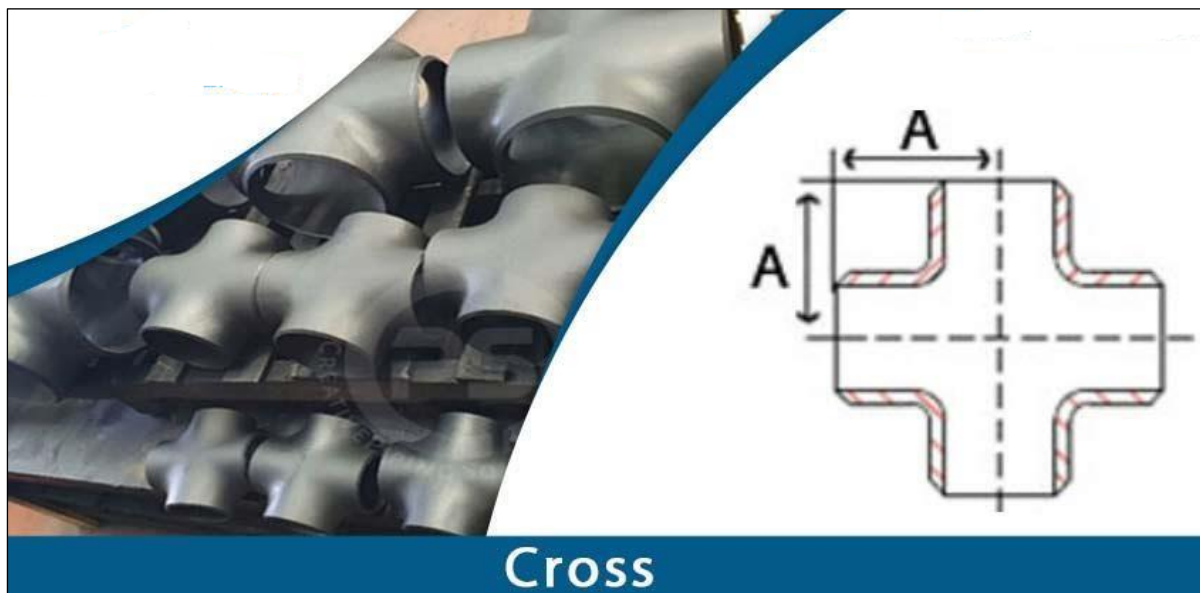
Size (Inch)	Schedule Weight in lbs		Dimensions	
	40	10	B	Outside Diameter
1/2"	0.090	0.070	0.62	0.840
1"	0.170	0.140	0.86	1.315
1-1/2"	0.420	0.320	1.12	1.90
2-1/2"	1.490	0.910	1.75	2.875
3-1/2"	3.280	1.790	2.25	4.00
5"	7.550	4.000	3.12	5.563
8"	23.50	11.10	5.00	8.625
10"	41.80	19.30	6.25	10.75
3/4"	0.090	0.070	0.44	1.050
1-1/4"	0.290	0.230	1.00	1.660
2"	0.750	0.540	1.36	2.375
3"	2.340	1.340	2.00	3.50

Buttweld Tee Pipe Fittings Dimensions



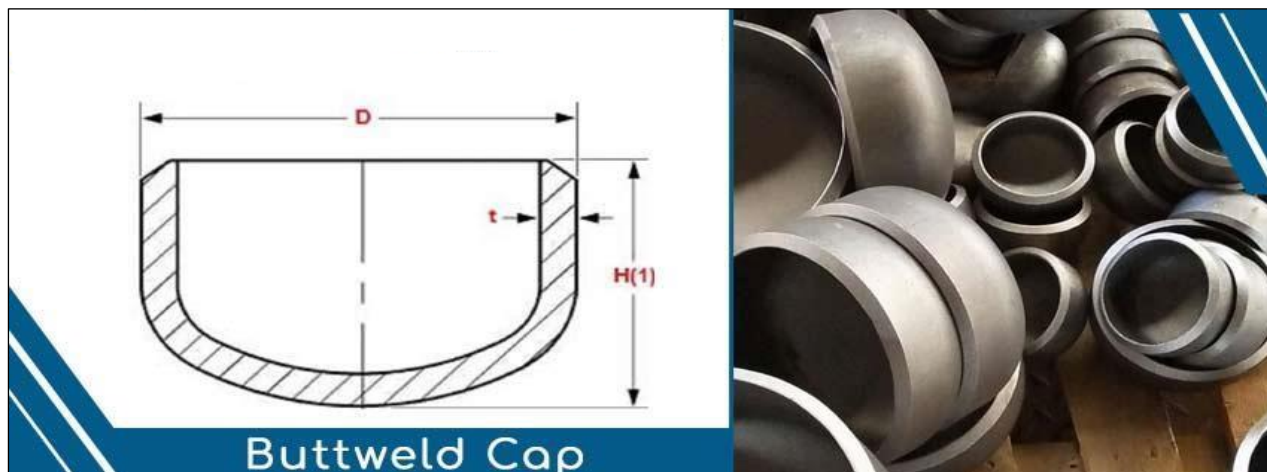
Size (Inch)	Schedule Weight in lbs		Dimensions	
	40	10	A	Outside Diameter
1/2"	0.300	0.230	1	0.840
1"	0.600	0.550	1.50	1.315
1-1/2"	1.610	1.610	2.25	1.90
2-1/2"	6.350	2.870	3.00	2.875
3-1/2"	11.40	4.800	3.75	4
5"	21.90	10.30	4.88	5.563
8"	61	24	7	8.625
10"	89	40	8.6	10.75
3/4"	0.470	0.300	1.125	1.050
1-1/4"	1.100	1.150	1.68	1.660
2"	4.160	1.720	2.50	2.375
3"	8.410	3.820	3.38	3.50
4"	13.20	5.800	4.12	4.50
6"	34.60	14.60	5.520	6.625
12"	145	56	10	12.75

Buttweld Cross Pipe Fittings Dimensions



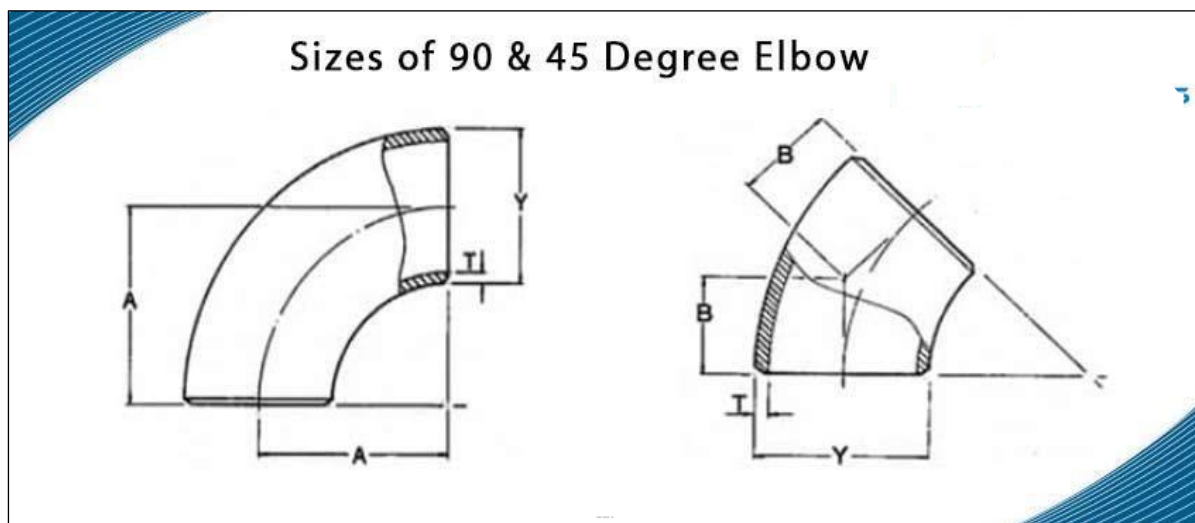
Size	Schedule Weight in lbs		Dimensions	
	40	10	A	Outside Diameter
3/4"	0.480	0.540	1.125	1.050
1-1/4"	1.320	1.260	1.68	1.660
2"	2.860	2.150	2.50	2.375
3"	7.370	4.480	3.38	3.50
4"	11.74	8.770	4.12	4.50
6"	24.49	20.47	5.520	6.625
10"	78.78	67.85	8.6	10.75
1/2"	0.336	0.378	1	0.840
1"	0.650	0.720	1.50	1.315
1-1/2"	1.910	1.720	2.25	1.90
2-1/2"	4.900	3.560	3.00	2.875
3-1/2"	9.090	6.760	3.75	4

Buttweld Cap Pipe Fittings Dimensions



Size's	Length		Outside Diameter
	H1	H	
1/2"	25	25	21.3
1"	38	38	33.4
1-1/2"	38	38	48.3
2-1/2"	51	38	73
3-1/2"	76	64	101.6
5"	89	76	141.3
8"	127	102	219.1
12"	178	152	323.8
16"	203	178	406.4
20"	254	229	508
22"	254	254	559
3/4"	25	25	26.7

Pipe Fitting Size Chart

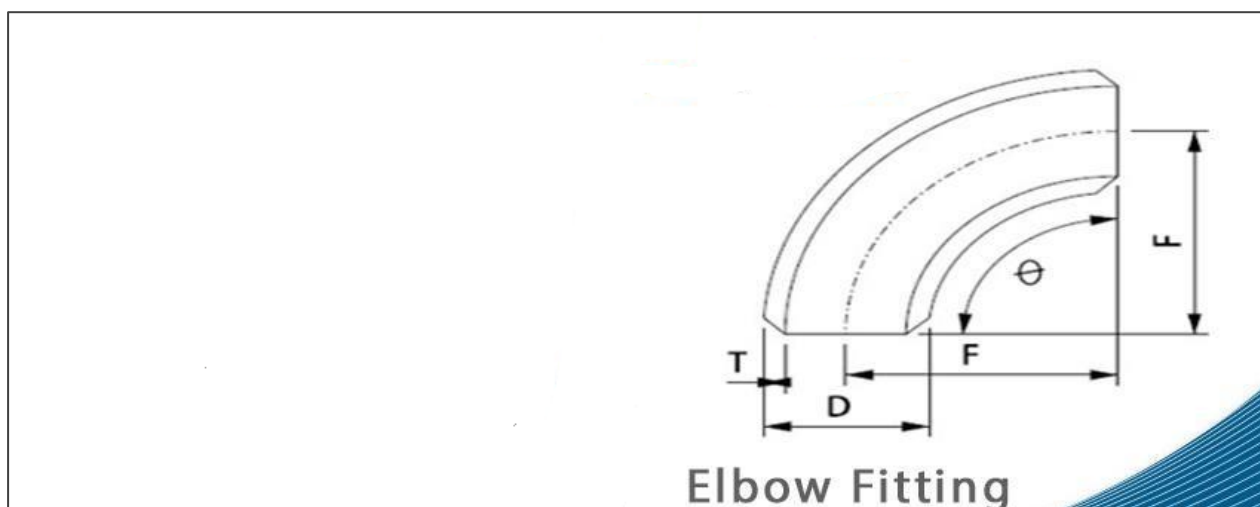


Size's	Outside Diameter (O.D)		180 degree Returns		45 degree Elbow		90 degree Elbow	
	mm	Inch					Long Radius	Short Radius
			Long Radius	Short Radius				
1/2"	0.84	21.3	1-7/8	2	-	5/8	-	1-1/2
1"	1.31	33.4	2-3/16	3	-	7/8	1	1-1/2
1-1/4"	1.66	42.2	2-3/4	3-3/4	-	1	1-1/4	1-7/8
1-1/2"	1.9	48.3	3-1/4	4-1/2	3	1-1/8	1-1/2	2-1/4
2-1/2"	2.87	73	5-3/16	7-1/2	5	1-3/4	2-1/2	3-3/4
12"	12.75	323.9	24-3/8	36	18	7-1/2	12	18
4"	4.5	114.3	8-1/4	12	8	2-1/2	4	6
10"	10.75	273.1	20-3/8	30	15	6-1/4	10	15

Pipe Fitting Pressure Rating Chart

Size's	Outside Diameter	Weight Chart (Kg)	Wall Thickness (Min)	Inside Diameter	Weight Pressure (Max)
1/4"	.540	.086	.088	.344	780
1/2"	.840	.170	.109	.602	590
1"	1.315	.333	.133	1.029	450
1-1/2"	1.900	.537	.145	1.590	330
2-1/2"	2.875	1.136	.203	2.445	300
3-1/2"	4	1.789	.226	3.521	240
5"	5.563	2.874	.258	5.016	190
8"	8.625	5.619	.322	7.942	160
12"	12.750	10.534	.406	11.889	130
24"	24	33.652	.687	22.544	120
16"	16	16.286	.500	14.940	130
20"	20	24.183	.593	18.743	120
3/8"	.675	.115	.091	.473	620
3/4"	1.050	.226	.113	.804	480
1-1/4"	1.660	.450	.140	1.360	370
2"	2.375	.720	.154	2.047	280
3"	3.500	1.488	.216	3.042	260
4"	4.500	2.118	.237	3.998	220
6"	6.625	3.733	.280	6.031	180
10"	10.750	7.966	.365	9.976	140
14"	14	12.462	.437	13.073	130
18"	18	20.587	.562	16.809	130

Elbow Fittings Weight

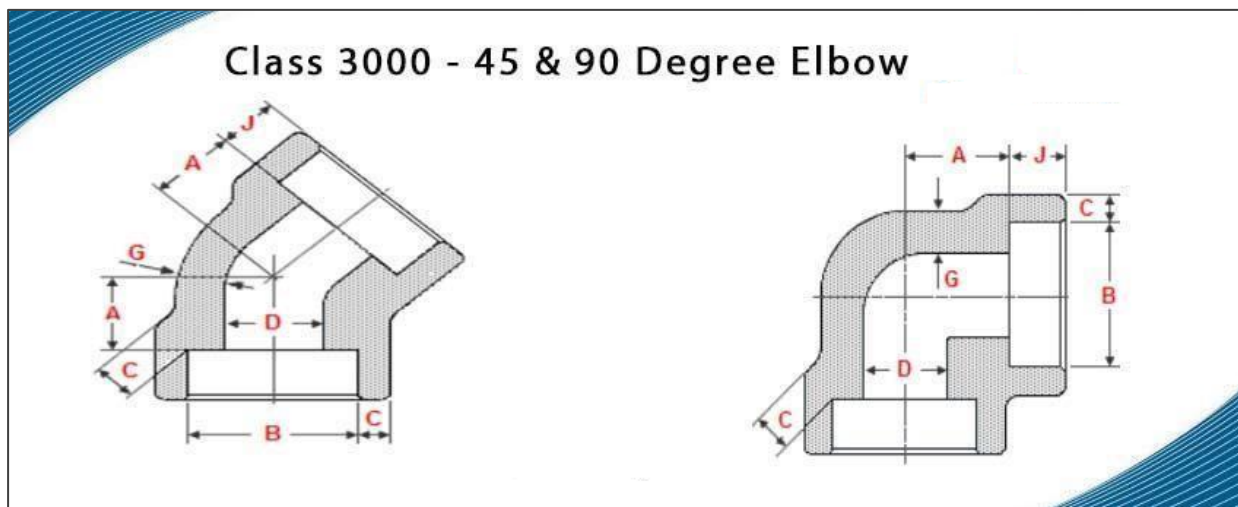


NPS	03/4	01/2	1	1.1/2	1.1/4	2	3	2.1/2	5	4	6
LBS	0.19	0.18	0.4	0.9	0.6	1.6	5	3.25	15	9	24.5
KG	0.09	0.08	0.18	0.41	0.27	0.73	2.27	1.47	6.8	4.08	11.11
NPS	10	8	12	16	14	18	22	20	30	26	36
LBS	88	50	125	206	160	260	394	320	734	550	1062
KG	39.92	22.68	56.7	93.44	72.57	117.93	178.72	145.15	332.94	249.48	481.72

Socket Weld Fitting Dimensions



Socket Weld Fitting Dimensions



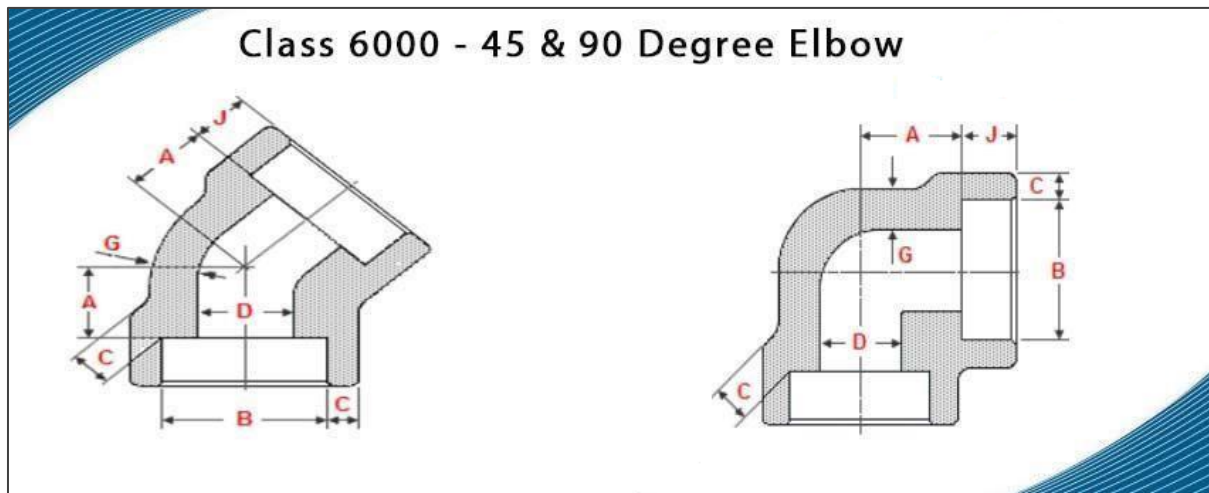
Sizes	Socket WT	Depth Socket	Bore DIA	Socket Bore	Body WT
	C	J	D	B	G
1/2"	4.10	10	15	21.70	3.75
	4.65		16.6	21.95	
3"	8.30	16	46.4	89.80	7.60
	9.50		79.5	90.15	
1"	5	13	25.9	33.80	4.55
	5.70		27.4	34.05	
1-1/2"	5.55	13	40.1	48.65	5.10
	6.35		41.7	48.90	
2-1/2"	7.65 8.75	16	61.2 64.2	73.80 74.20	7
3/4"	4.25 4.90	13	20.2 21.7	27.05 27.30	3.90
1-1/4"	5.30 6.05	13	34.3 35.8	42.55 42.80	4.85
2"	6.05 6.95	16	51.7 53.5	61.10 61.35	5.55
4"	9.35	19	100.7	115.45	8.55
	10.70		103.8	115.80	

Class 3000 - 45 & 90 Degree Elbow



Sizes	Center to bottom of socket A	
	45°	90°
1/2"	11.5	15.5
3"	31.5	57.5
1"	14	22
1-1/2"	21	32
2-1/2"	29	41.5
3/4"	12.5	19.5
1-1/4"	17	27
2"	25	38

STAINLESS STEEL PIPE SIZE CHART



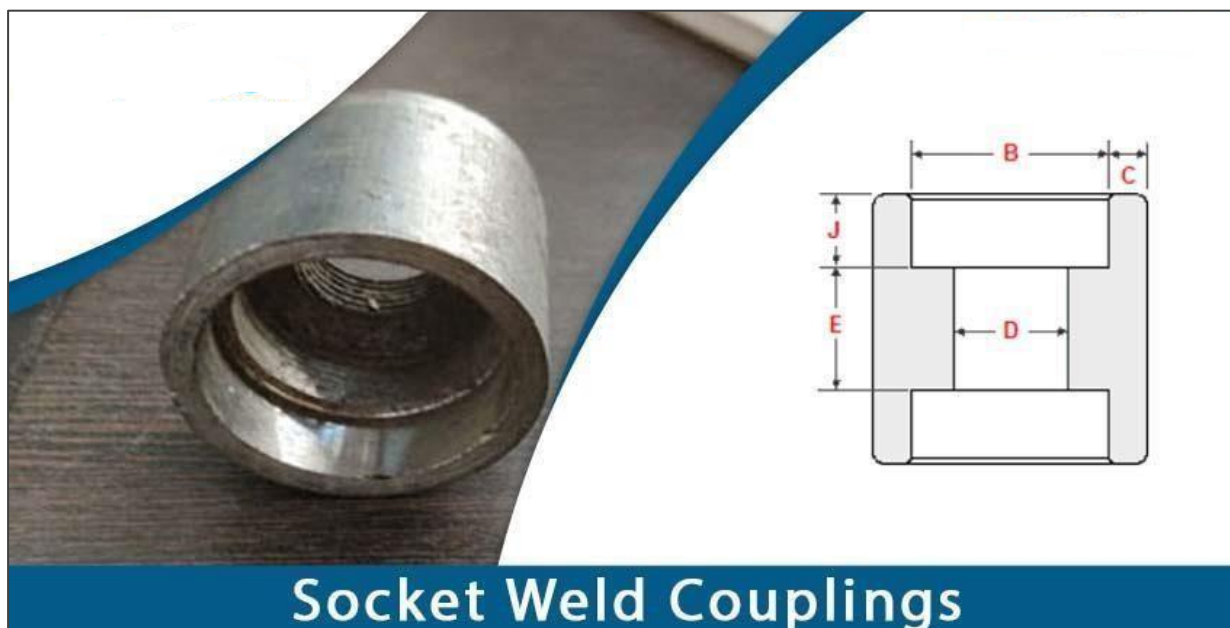
Sizes	Body WT	Socket Bore	Socket WT	Bore DIA	Depth Socket
	G	B	C	D	J
1/2"	4.80	21.70 21.95	5.20 5.95	11 12.5	10
1"	6.35	33.80 34.05	6.95 7.90	19.9 21.5	13
2"	8.75	61.10 61.35	9.50 10.90	42.1 43.6	16
1-1/2"	7.15	48.65 48.90	7.80 8.90	33.2 34.7	13
3/4"	5.55	27.05 27.30	6.05 6.95	14.8 16.3	13
1-1/4"	6.35	42.55 42.80	6.95 7.90	28.7 30.2	13

Class 6000 - 45 & 90 Degree Elbow



Sizes	Center to Bottom of Socket A	
	45°	90°
1/2"	12.5	19.5
2"	29	41
1"	17	27
1-1/2"	25	38
3/4"	14.5	22.5
1-1/4"	21	32

SW Coupling Dimensions



Size's	Bore DIA	Depth Socket	Socket Bore	Socket wall THK
	D	J	B	C
1/2"	15 16.6	10	21.70 21.95	4.10 4.65
3/4"	20.2 21.7	13	27.05 27.30	4.25 4.90
1"	25.9 27.4	13	33.80 34.05	5 5.70
1-1/4"	34.3 35.8	13	42.55 42.80	5.30 6.05
1-1/2"	40.1 41.7	13	48.65 48.90	5.55 6.35
2"	51.7 53.5	16	61.10 61.35	6.05 6.95
2-1/2"	61.2 64.2	16	73.80 74.20	7.65 8.75

Sizes	Laying lengths	
	Coupling E	Coupling Half F
1/2"	9.5	22.5
3"	19	44.5
1"	13	29
1-1/2"	13	32
2-1/2"	19	42.5
3/4"	9.5	23.5
1-1/4"	13	30
2"	19	41
4"	19	47.5

Socket 6000 Weld Couplings Dimensions

Sizes	Bore DIA	Depth Socket	Socket Bore	Socket wall THK
	D	J	B	C
1/2"	11 12.5	10	21.70 21.95	5.20 5.95
3/4"	14.8 16.3	13	27.05 27.30	6.05 6.95
1"	19.9 21.5	13	33.80 34.05	6.95 7.90
1-1/4"	28.7 30.2	13	42.55 42.80	6.95 7.90
1-1/2"	33.2 34.7	13	48.65 48.90	7.80 8.90
2"	42.1 43.6	16	61.10 61.35	9.50 10.90

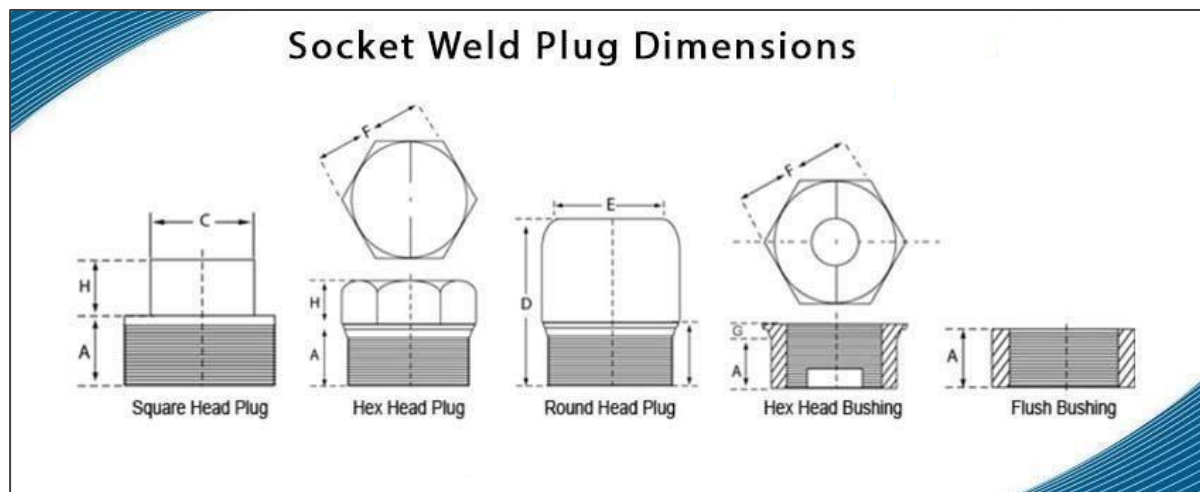
STAINLESS STEEL PIPE SIZE CHART

Sizes	Laying lengths	
	Half coupling F	Coupling E
1/2"	22.5	9.5
2"	41	19
1"	29	13
1-1/2"	32	13
3/4"	23.5	9.5
1-1/4"	30	13

Socket Weld Fittings Weight Chart

Size's	Tee	Half Coupling		45 Degree Elbow	90 Deg Elbow		45 Deg Elbow
	3000#	6000#	3000#	3000#	3000#	2000#	3000#
3/8"	0.26	0.19	0.06	0.17	0.26	0.15	0.19
3/4"	0.72	0.48	0.22	0.46	0.66	0.41	0.52
1 1/4"	1.85	1.14	0.79	1.19	1.67	1.10	1.32
4"	19.40	11.46	7.05	12.47	17.35	11.44	13.86
3"	12.12	6.61	3.52	7.78	10.84	7.14	8.66
1/2"	0.44	0.35	0.15	0.28	0.41	0.26	0.33
1"	1.16	0.97	0.46	0.74	1.05	0.68	0.83
1-1/2"	2.97	2.09	1.14	1.89	2.66	1.74	2.11
2-1/2"	7.58	4.40	2.53	4.87	6.79	4.47	5.42

Socket Weld Plug Dimensions



Sizes	Length (Min) A	Plug Square Head		Plug Round Head		Bushing & Hex Plugs		
		Width Flats (Min) C	Height of Square (Min) B	Length (Min) D	Nominal Dia. of Head E	Width Flats F	Hex height (Min.)	
							Plug H	Bushing G
1/8"	9.7	7.1	6.6	35.1	10.4	11.2	6.4	-
3/8"	12.7	11.2	7.9	41.1	17.5	17.5	7.9	4.1
3/4"	15.7	15.7	11.2	44.5	26.9	26.9	9.7	5.6
1-1/4"	20.6	23.9	14.2	50.8	42.9	44.5	14.2	7.1
2"	22.4	33.3	17.5	63.5	60.5	63.5	17.5	8.6
3"	28.4	42.9	20.6	69.9	88.9	88.9	20.6	10.4
1/4"	11.2	9.7	6.6	41.1	13.5	15.7	6.4	3.0
1/2"	14.2	14.2	9.7	44.5	21.3	22.4	7.9	4.8
1"	19.1	20.6	12.7	50.8	33.3	35.1	9.7	6.4

Class 3000 Socket Weld Fittings Pressure Rating

Temperature	Class 3000 Threaded Fittings & Socket Welding		
	F316	F304	ASTM A105
100°F	3000	2570	3000
800°F	1865	1370	1525
200°F	2975	2170	2875
300°F	2775	1870	2775
500°F	2460	1650	2460
700°F	1960	1425	1775
150°F	2915	2280	2915
250°F	2845	2055	2845
400°F	2605	1715	2605
600°F	2150	1535	2150

Socket Weld Elbow Weight Chart

Sizes		Socket Wall Thickness (C)		Bore Fitting Dia (D)		Bore Socket Dia (B)		Bottom Center of socket (A)		Depth Socket (J)	Body Wall Thickness (G)	Weight in Kg	
M	Inc	Min	Av	Max	Min	Max	Min	45° Elbow	90° Elbow	Min	Min	45° Elbow	90° Elbow
6	1/8"	3.18	3.18	7.6	6.1	11.2	10.8	8	11	9.5	2.41	0.100	0.113
10	3/8"	3.50	4.01	13.3	11.8	18	17.6	8	13.5	9.5	3.20	0.100	0.118
20	3/4"	4.27	4.90	21.7	20.2	27.6	27.2	13	19	12.5	3.91	0.318	0.340
32	1 1/4"	5.28	6.07	35.8	34.3	43.1	42.7	17.5	27	12.5	4.85	0.630	0.689
50	2"	6.04	6.93	53.3	51.7	61.7	61.2	25.5	38	16	5.54	1.343	1.529
80	3"	8.30	9.52	79.4	76.4	90.3	89.8	32	57	16	7.62	3.878	5.026
8	1/4"	3.30	3.78	10	8.5	14.6	14.2	8	11	9.5	3.02	0.086	0.095

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