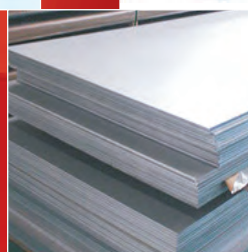
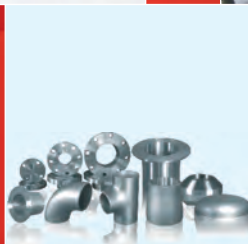


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Tee



Elbow



Union



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Tee



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Reducing Elbow



Cross



Male Female Bush



Flange SORF



Long Stub End



Reducer



Hex Nipple



Forged Steel Cross



S/W Coupling



Barrel Nipple



Check Nut



End Cap



High Pressure Tee



S/W Tee



S/W Elbow 45°



Sample Cock Valve



Weld Neck Flange



Float Valve



Two Way Valve (SMS)



Three Way Valve (SMS)



Tanker Valve



Butterfly Valve with Union



Butterfly Valve Welded



Micro Valve with Union



Disk Filter with Union



In Line Filter



TC Butterfly Valve



Tanker Valve



Spray Boll Removing



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DIMENSIONS AND WEIGHT OF SEAMLESS PIPES

(in mm) & kg. per Mtr.

Nominal Pipe Size Inches	OD mm	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	Figures based on austenitic steel				Vol/m m ³
															5S	10S	40S	80S	
1/8	1.30	-	-	-	1.73 0.37	1.73 0.37	-	2.41 0.47	2.41 0.47	-	-	-	-	-	-	1.24 0.28	1.73 0.36	2.41 0.48	0.0001
1/4	13.70	-	-	-	2.24 0.63	2.24 0.63	-	3.02 0.80	3.02 0.80	-	-	-	-	-	-	1.65 0.51	2.24 0.64	3.02 0.80	0.0002
3/8	17.10	-	-	-	2.31 0.84	2.31 0.84	-	3.20 1.10	3.20 1.10	-	-	-	-	-	-	1.65 0.64	2.31 0.86	3.20 1.12	0.0003
1/2	21.30	-	-	-	2.77 1.27	2.77 1.27	-	3.73 1.62	3.73 1.62	-	-	-	4.78 1.95	7.47 2.55	1.65 0.82	2.11 1.01	2.77 1.30	3.73 1.65	0.0004
3/4	26.70	-	-	-	2.87 1.69	2.87 1.69	-	3.91 2.20	3.91 2.20	-	-	-	5.56 2.90	7.82 3.64	1.65 1.04	2.11 1.31	2.87 1.71	3.91 2.24	0.0007
1	33.40	-	-	-	3.38 2.50	3.38 2.50	-	4.55 3.24	4.55 3.24	-	-	-	6.35 4.24	9.09 5.45	1.65 1.33	2.77 2.13	3.38 2.55	4.55 3.29	0.0011
1.1/4	42.20	-	-	-	3.56 3.39	3.56 3.39	-	4.85 4.47	4.85 4.47	-	-	-	6.35 5.61	9.70 7.77	1.65 1.68	2.77 2.76	3.56 3.46	4.85 4.56	0.0018
1.1/2	48.30	-	-	-	3.68 4.05	3.68 4.05	-	5.08 5.41	5.08 5.41	-	-	-	7.14 7.25	10.15 9.56	1.65 1.95	2.77 3.17	3.68 4.13	5.08 5.51	0.0023
2	60.30	-	-	-	3.91 5.44	3.91 5.44	-	5.54 7.48	5.54 7.48	-	-	-	8.74 11.11	11.07 13.44	1.65 2.44	2.77 4.01	3.91 5.54	5.54 7.63	0.0036
2.1/2	73.00	-	-	-	5.16 8.63	5.16 8.63	-	7.01 11.41	7.01 11.41	-	-	-	9.53 14.92	14.02 20.39	2.11 3.77	3.05 5.36	5.16 8.81	7.01 11.64	0.0053
3	88.90	-	-	-	5.49 11.29	5.49 11.29	-	7.62 15.27	7.62 15.27	-	-	-	11.13 21.35	15.24 27.68	2.11 4.60	3.05 6.59	5.49 11.52	7.62 15.59	0.0079
3 1/2	101.60	-	-	-	5.74 13.57	5.74 13.57	-	8.08 18.63	8.08 18.63	-	-	-	-	16.15 34.03	2.11 5.29	3.05 7.55	5.74 13.84	8.08 19.01	0.0103
4	114.40	-	-	-	6.02 16.07	6.02 16.07	-	8.56 22.32	8.56 22.32	-	11.13 28.32	-	13.49 33.54	17.12 41.03	2.11 5.96	3.05 8.52	6.02 16.40	8.56 22.77	0.0130
5	141.30	-	-	-	6.55 21.77	6.55 21.77	-	9.53 30.97	9.53 30.97	-	12.70 42.28	-	15.88 49.11	19.05 57.43	2.77 9.67	3.40 11.56	6.55 22.20	9.53 31.59	0.199
6	168.30	-	-	-	7.11 28.26	7.11 28.26	-	10.97 42.56	10.97 42.56	-	14.27 54.20	-	18.26 67.56	21.95 79.22	2.77 11.55	3.40 14.13	7.11 28.83	10.97 43.42	0.028
8	219.10	-	6.35 33.31	7.0 36.8	8.18 42.55	8.18 42.55	10.31 53.08	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92	2.77 15.09	3.76 22.37	8.18 43.39	12.70 65.95	0.048
10	273.10	-	6.35 41.77	7.8 51.0	9.27 60.31	9.27 60.31	12.70 81.55	12.70 81.55	15.09 96.01	18.26 114.75	21.44 133.06	25.43 155.15	28.58 172.33	25.40 186.97	3.40 23.08	4.19 28.34	9.27 61.52	12.70 83.19	0.074
12	323.90	-	6.35 49.73	8.38 65.20	9.53 73.88	10.31 79.73	14.27 108.96	12.70 97.46	17.48 132.0	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	25.40 186.97	3.96 31.24	4.57 35.98	9.52 73.80	12.70 97.46	0.104
14	255.60	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33	11.13 94.55	15.06 126.47	12.70 107.39	19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.69	-	3.96 34.34	4.78 41.35	-	-	0.126
16	406.40	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 123.30	21.44 203.52	26.19 245.56	30.96 286.64	36.52 333.11	40.46 365.11	-	4.19 41.56	4.78 47.34	-	-	0.165
18	457.00	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.05 205.74	12.70 139.15	23.82 254.45	29.36 309.62	34.92 363.49	39.67 408.26	45.24 459.36	-	4.19 46.79	4.78 53.31	-	-	0.208
20	508.00	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	49.99 564.61	-	4.78 59.32	5.54 68.64	-	-	0.258
22	559.00	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13	15.87 212.56	22.22 294.13	12.70 171.10	28.58 373.83	34.92 451.29	41.28 527.0	47.62 600.52	53.98 672.26	-	4.78 65.33	5.54 75.61	-	-	0.312
24	610.00	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	12.70 187.10	30.93 441.68	38.83 546.92	46.02 640.0	52.37 720.15	59.51 807.85	-	5.54 82.58	6.35 94.53	-	-	0.372
26	660.00	7.92 127.26	12.70 202.72	-	9.53 152.87	-	-	12.70 202.72	-	-	-	-	-	-	-	-	-	-	0.435
28	711.00	7.92 137.32	12.70 218.69	15.88 272.21	9.53 164.85	-	-	12.70 218.69	-	-	-	-	-	-	-	-	-	-	0.506
30	762.00	7.92 147.28	12.70 234.68	15.88 292.18	9.53 176.84	-	-	12.90 234.67	-	-	-	-	-	-	6.35 120.72	7.92 150.36	-	-	0.580
32	813.00	7.92 157.28	12.70 250.64	15.88 312.15	9.53 188.82	17.48 342.91	-	12.70 250.64	-	-	-	-	-	-	-	-	-	-	0.660
34	864.00	7.92 167.20	12.70 266.61	15.88 332.14	9.53 200.81	17.48 364.89	-	12.70 266.61	-	-	-	-	-	-	-	-	-	-	0.746
36	914.00	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42	-	12.70 282.27	-	-	-	-	-	-	-	-	-	-	0.835
38	965.00	-	-	-	9.53 224.54	-	-	12.70 298.24	-	-	-	-	-	-	-	-	-	-	0.931
40	1016.00	-	-	-	9.53 236.53	-	-	12.70 314.22	-	-	-	-	-	-	-	-	-	-	1.032
42	1067.00	-	-	-	9.53 248.52	-	-	12.70 330.19	-	-	-	-	-	-	-	-	-	-	1.138
44	1118.00	-	-	-	9.53 260.50	-	-	12.70 346.16	-	-	-	-	-	-	-	-	-	-	1.249
46	1168.00	-	-	-	9.53 272.25	-	-	12.70 361.82	-	-	-	-	-	-	-	-	-	-	1.364
48	1219.00	-	-	-	9.53 284.24	-	-	12.70 377.79	-	-	-	-	-	-	-	-	-	-	1.485



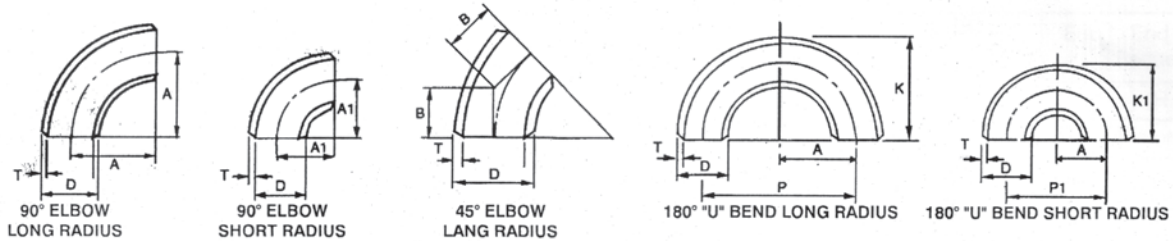
CHEMICAL COMPOSITION OF STAINLESS STEEL / MECHANICAL PROPERTIES

Grade designation	C %	MN %	SI %	S %	P %	CR %	NI %	MO %	TI %	UTS	YS %	% EL	R.A %
AISI	MAX	MAX	MAX	MAX	MAX					Kg/mm ² min	(0.2% Offset Kg/mm ² min)	Min	
302	0.15	2.00	0.75	0.030	0.045	17.00	8.00			53	21	40	50
						19.00	10.00						
304	0.08	2.00	0.75	0.030	0.045	18.00	8.00			53	21	40	50
						20.00	12.00						
304L	0.03	2.00	0.75	0.030	0.045	18.00	8.00			53	21	40	50
						20.00	12.00						
309	0.20	2.00	0.75	0.030	0.045	22.00	12.00			53	21	40	50
						24.00	15.00						
309S	0.08	2.00	0.75	0.030	0.045	22.00	12.00			53	21	40	50
						24.00	15.00						
310	0.25	2.00	0.75	0.030	0.045	24.00	19.00			53	21	40	50
						26.00	22.00						
310S	0.08	2.00	0.75	0.030	0.045	24.00	19.00			53	21	40	50
						26.00	22.00						
316	0.08	2.00	0.75	0.030	0.045	16.00	10.00	2.00		53	21	40	50
						18.00	14.00	3.00					
316L	0.03	2.00	0.75	0.030	0.045	16.00	10.00	2.00		53	21	40	50
						18.00	14.00	3.00					
316Ti	0.08	2.00	0.75	0.030	0.045	16.00	10.00	2.00	5 x C				
						18.00	14.00	3.00	min				
317	0.08	2.00	0.75	0.030	0.045	16.00	10.00	3.00					
						18.00	14.00	4.00					
321	0.08	2.00	0.75	0.030	0.045	17.00	9.00		5xC	53	21	40	50
						19.00	12.00		min				
347	0.08	2.00	0.75	0.030	0.045	17.00	9.00	NS+	To				
						19.00	13.00	10xC	min				
410	0.15	1.00	0.75	0.030	0.040	11.50				49	28	20	50
						13.50							
420	0.15	1.00	0.75	0.030	0.040	12.00				49	28	20	45
						14.00							
430	0.12	1.00	0.75	0.030	0.040	16.00				49	28	20	45
						18.00							
431	0.20	1.00	0.75	0.030	0.040	15.00				49	28	20	45
						17.00							



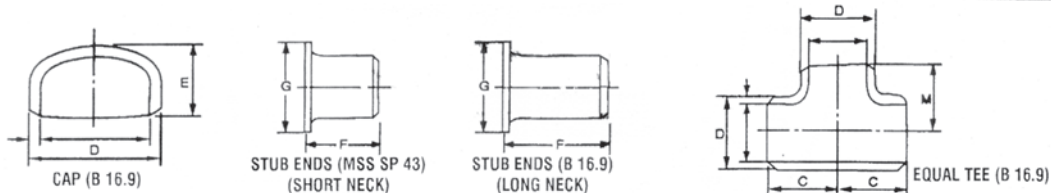
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DIMENSIONS OF BUTT WELD FITTINGS (ANSI B 16.9 & B 16.28)

Nominal Pipe Size								Centre to End					Centre to Centre					Back to Face				
	OD D		90° L/R B					45° L/R B					180° L/R P					180° S/R K				
Inch.	mm	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max
1/2	15	20	21	22	36	38	40	14	16	18	-	-	-	69	76	83	-	-	-	41	48	55
3/4	20	26	27	28	36	38	40	17	19	21	-	-	-	69	76	83	-	-	-	36	43	50
1	25	32	33	34	36	38	40	20	22	24	23	25	27	69	76	83	44	51	58	49	56	63
1 1/4	32	41	42	43	46	48	50	23	25	27	30	32	34	88	95	102	57	64	71	63	70	77
1 1/2	40	47	48	49	55	57	59	27	29	31	36	38	40	107	114	121	69	76	83	76	83	90
2	50	59	60	61	74	76	78	33	35	37	49	51	53	145	152	159	95	102	109	99	106	113
2 1/2	65	72	73	74	93	95	97	42	44	46	62	64	66	184	191	198	120	127	134	125	132	139
3	80	88	89	90	112	114	116	49	51	53	74	76	78	222	229	236	145	152	159	152	159	166
4	100	113	114	116	150	152	154	62	64	66	100	102	104	298	305	312	196	203	210	203	210	217
5	125	140	141	144	188	190	192	77	79	81	125	127	129	374	381	388	247	254	261	255	262	269
6	150	167	168	171	227	229	231	93	95	97	150	152	154	450	457	464	298	305	312	306	313	320
8	200	217	219	221	303	305	307	125	127	129	201	203	205	603	610	617	399	406	413	407	414	421
10	250	270	273	277	379	381	383	157	159	161	252	254	256	752	762	772	498	508	518	511	518	525
12	300	321	324	328	454	457	460	187	190	193	302	305	308	904	914	924	600	610	620	612	619	626
14	350	353	356	360	530	533	536	219	222	225	353	356	359	1057	1067	1077	701	711	721	704	711	718
16	400	403	406	410	607	610	613	251	254	257	403	406	409	1209	1219	1299	803	813	823	806	813	820
18	450	454	457	461	683	686	689	283	286	289	454	457	460	1362	1372	1382	904	914	924	907	914	921
20	500	503	508	514	759	762	765	315	318	321	505	508	511	1514	1524	1534	1006	1016	1026	1009	1016	1023
24	600	605	610	616	911	914	917	378	381	384	607	610	613	1819	1829	1839	1209	1219	1229	1212	1219	1226



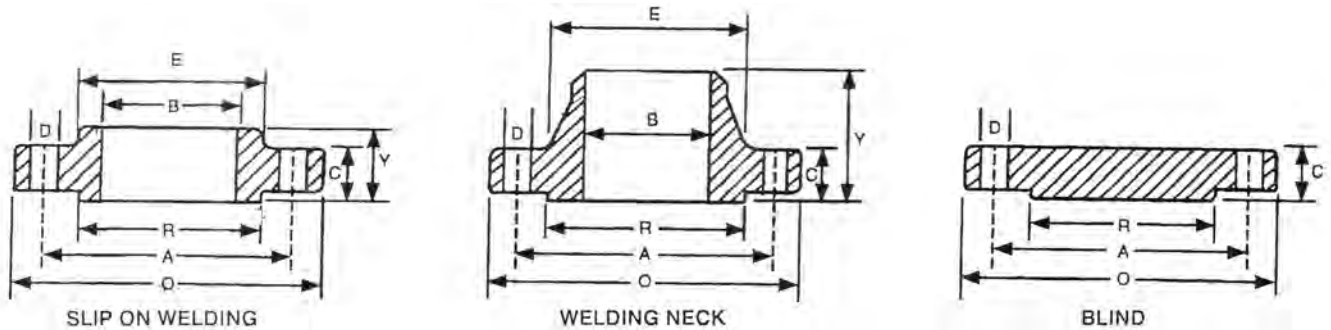
DIMENSIONS OF BUTT WELD FITTINGS (ANSI B 16.9 & MSS SP 43)

Nominal Pipe Size																						
	OD D		CAP E					Stubend G					B 16.9 F					MSS SP 43 F				
Inch.	mm	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max
1/2	15	20	21	22	22	25	28	34	35	35	74	76	78	49	51	53	23	25	27	23	25	27
3/4	20	26	27	28	22	25	28	42	43	43	74	76	78	49	51	53	27	29	31	27	29	31
1	25	32	33	34	35	38	41	50	51	51	100	102	104	49	51	53	36	38	40	36	38	40
1 1/4	32	41	42	43	35	38	41	63	64	64	100	102	104	49	51	53	46	48	50	46	48	50
1 1/2	40	47	48	49	35	38	41	72	73	73	100	102	104	49	51	53	55	57	59	55	57	59
2	50	59	60	61	35	38	41	91	92	92	150	152	154	62	64	66	62	64	66	62	64	66
2 1/2	65	72	73	74	35	38	41	104	105	105	150	152	154	62	64	66	74	76	78	74	76	78
3	80	88	89	90	48	51	54	126	127	127	150	152	154	62	64	66	84	86	88	84	86	88
4	100	113	114	116	61	64	67	156	157	157	150	152	154	74	76	78	103	105	107	103	105	107
5	125	140	141	144	69	76	83	185	186	186	201	203	205	74	76	78	122	124	126	122	124	126
6	150	167	168	171	82	89	96	215	216	216	201	203	205	87	89	91	141	143	145	141	143	145
8	200	217	219	221	95	102	109	269	270	270	201	203	205	100	102	104	176	178	180	176	178	180
10	250	270	273	277	120	127	134	322	324	324	252	254	256	125	127	129	214	216	218	214	216	218
12	300	321	324	328	145	152	159	379	381	381	252	254	257	150	152	154	251	254	257	251	254	257
14	350	353	356	360	158	165	172	411	413	413	302	305	308	150	152	154	276	279	282	276	279	282
16	400	403	406	410	171	178	185	468	470	470	302	305	308	150	152	154	302	305	308	302	305	308
18	450	454	457	461	196	203	210	531	533	533	302	305	308	150	152	154	340	343	346	340	343	346
20	500	503	508	514	222	229	236	582	584	584	302	305	308	150	152	154	378	381	384	378	381	384
24	600	605	610	616	260	267	274	690	692	692	302	305	308	150	152	154	420	422	425	420	422	425



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DIMENSIONS OF CLASS 150 FLANGES (ANSI B 16.5)

(in mm)

Nominal Pipe Size (inch) (mm)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes B	No. of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
1/2	15	88.9	60.3	15.9	4	11.1	14	46	16	22.2	22.9	34.9	10
3/4	20	98.4	69.9	15.9	4	12.7	14	51	16	27.7	28.2	42.9	11
1	25	107.9	79.4	15.9	4	14.3	16	54	17	34.5	34.9	50.8	13
1 1/4	32	117.5	88.9	15.9	4	15.9	19	56	21	43.2	43.7	63.5	14
1 1/2	40	127.0	98.4	15.9	4	17.5	21	60	22	49.5	50.0	73.0	16
2	50	152.4	120.7	19.0	4	19.0	24	62	25	61.9	62.5	92.1	17
2 1/2	65	177.8	139.7	19.0	4	22.2	27	68	29	74.6	75.4	104.8	19
3	80	190.5	152.4	19.0	4	23.8	29	68	30	90.7	91.4	127.0	21
4	100	228.6	190.5	19.0	8	23.8	32	75	33	116.1	116.8	157.2	-
5	125	254.6	215.9	22.2	8	23.8	35	87	36	143.8	144.4	185.7	-
6	150	279.4	241.3	22.2	8	25.4	38	87	40	170.7	171.4	215.9	-
8	200	342.9	298.5	22.2	8	28.6	43	100	44	221.5	222.2	269.9	-
10	250	406.4	362.0	25.4	12	30.2	48	100	49	276.2	277.4	323.8	-
12	300	482.6	431.8	25.4	12	31.8	54	113	56	327.0	328.2	381.0	-
14	350	533.4	476.3	28.6	12	34.9	56	125	79	359.2	360.2	412.8	-
16	400	596.9	539.8	28.6	16	36.5	62	125	87	410.5	411.2	469.9	-
18	450	596.0	577.9	31.7	16	39.7	67	138	97	461.8	462.3	533.4	-
20	500	698.5	635.0	31.7	20	42.9	71	143	103	513.1	514.3	584.2	-
24	600	812.8	749.3	34.9	20	47.6	81	151	111	616.0	616.0	692.2	-

DIMENSIONS OF CLASS 300 FLANGES (ANSI B 16.5)

(in mm)

Nominal Pipe Size (inch) (mm)	Flange Dia O	Dia of Bolt Circle A	Dia of Bolt Holes D	No. of Holes	Thk of Flange C	Dia of Hub E	Length through Hub			Dia of Bore		Dia of R/F R	Depth of Socket F
							S/O & S/W Y	W/N Y	L/J Y	S/O & S/W B	L/J B		
1/2	15	95.2	66.7	15.9	4	14.3	21	51	22	22.2	22.9	34.9	10
3/4	20	117.5	82.6	19.0	4	15.9	24	56	25	27.7	28.2	42.9	11
1	25	123.8	88.9	19.0	4	17.5	25	60	27	34.5	34.9	50.8	13
1 1/4	32	133.3	98.4	19.0	4	19.1	25	64	27	43.2	43.7	63.5	14
1 1/2	40	155.6	114.3	22.2	4	20.7	29	67	30	49.5	50.0	73.0	16
2	50	165.1	127.0	19.0	8	22.3	32	68	33	61.9	62.5	92.1	17
2 1/2	65	190.5	149.2	22.2	8	25.4	37	75	38	74.6	75.4	104.8	19
3	80	209.5	168.3	22.2	8	28.6	41	78	43	90.7	91.4	127.0	21
4	100	254	200.0	22.2	8	31.8	46	84	48	116.1	116.8	157.2	-
5	125	279.4	235.0	22.2	8	35.0	49	97	51	143.8	144.4	185.7	-
6	150	317.5	269.9	22.2	12	36.6	51	97	52	170.7	171.4	215.9	-
8	200	381	330.2	25.4	12	41.3	60	110	62	221.5	222.2	269.9	-
10	250	444.5	387.4	28.6	16	47.7	65	116	95	276.2	277.4	323.8	-
12	300	520.5	450.8	31.7	16	50.8	71	129	102	327.0	328.2	381.0	-
14	350	584.2	514.4	31.7	20	54.0	75	141	111	359.2	360.2	412.8	-
16	400	647.7	571.5	34.9	20	57.2	81	144	121	410.5	411.2	469.9	-
18	450	711.2	628.6	34.9	24	60.4	87	157	130	461.8	462.3	533.4	-
20	500	774.7	685.8	34.9	24	63.5	94	160	140	513.1	514.4	584.2	-
24	600	914.4	812.8	41.3	24	69.9	105	167	152	616.0	616.0	692.2	-

1) Thickness "C" is Exclusive of Raised Face Thickness of 2 mm for Class 150 and 300.



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B.S. 10 Table 'D'

Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	5
20	102	73	4	13	5
25	114	83	4	13	5
32	121	87	4	12	6
40	133	98	4	13	6
50	152	114	4	16	8
65	165	127	4	16	8
80	184	145	4	16	10
100	216	178	4	16	10
125	254	210	8	16	13
150	279	235	8	16	13
200	337	292	8	16	13
250	406	356	8	19	16
300	457	406	12	19	16
350	527	470	12	22	19
400	578	521	12	22	19
450	641	584	12	22	22
500	705	641	16	22	25
600	826	756	16	25	29

B.S. 10 Table 'F'

Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	10
20	102	83	4	13	10
25	121	87	4	16	10
32	133	98	4	16	13
40	140	105	4	16	13
50	165	127	4	16	16
65	184	145	8	6	16
80	203	165	8	16	16
100	229	191	8	16	19
125	279	235	8	19	22
150	305	260	12	19	22
200	368	324	12	19	25
250	432	381	12	22	25
300	489	438	16	22	29
350	552	495	16	25	32
400	610	552	20	25	32
450	673	610	20	29	35
500	737	673	24	29	38
600	851	781	24	32	38

B.S. 10 Table 'E'

Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	95	67	4	13	6
20	102	73	4	13	6
25	114	83	4	13	7
32	121	87	4	13	8
40	133	98	4	13	9
50	152	114	4	16	10
65	165	127	4	16	10
80	184	145	4	16	11
100	216	178	4	16	13
125	254	210	8	16	14
150	279	235	8	19	17
200	337	292	8	19	19
250	406	356	8	19	22
300	457	406	12	22	25
350	527	470	12	22	25
400	578	521	12	22	25
450	641	584	12	22	29
500	705	641	16	22	32
600	826	756	16	25	38

B.S. 10 Table 'F'

Nominal Pipe Size (in mm)	Diameter of Flange	Diameter of Bolt Circle (PCD)	Number of Bolts	Diameter of Bolts	Thickness of Flange
mm	mm	mm	mm	mm	mm
15	114	83	4	16	13
20	114	83	4	16	13
25	121	87	4	16	14
32	133	98	4	16	17
40	140	105	4	16	17
50	165	127	4	16	19
65	184	145	8	16	19
80	203	165	8	16	22
100	229	191	8	16	25
125	279	235	8	19	29
150	305	260	12	19	29
200	368	324	12	19	32
250	432	381	12	22	35
300	489	438	16	22	38
350	552	495	16	25	41
400	610	552	20	25	44
450	673	610	20	29	48
500	737	673	24	29	51
600	851	781	24	32	57



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DIN 2527

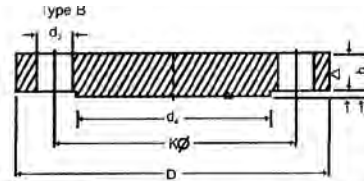
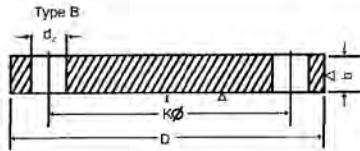


	NW	D	Flange		Raised Face		No.	Bolts		Dia. of Bolt d_2	Weight of One Flange (7.85 kg/dm ³) Type-B Type-C)	
			b	k	d_1	f					Kg	Kg
ND-6	10	75	12	50	35	2	4	M 10	--	11.5	0.38	0.33
	15	80	12	55	40	2	4	M 10	--	11.5	0.44	0.38
	20	90	14	65	50	2	4	M 10	--	11.5	0.65	0.59
	25	100	14	75	60	2	4	M 10	--	11.5	0.82	0.74
	32	120	14	90	70	2	4	M 12	(1/2")	14	1.17	1.07
	40	130	14	100	80	3	4	M 12	(1/2")	14	1.39	1.21
	50	140	14	110	90	3	4	M 12	(1/2")	14	1.62	1.43
	65	160	14	130	110	3	4	M 12	(1/2")	14	2.44	2.21
	80	190	16	150	128	3	4	M 16	(5/8")	18	3.43	3.09
	100	210	16	170	148	3	4	M 16	(5/8")	18	4.76	4.37
	125	240	18	200	178	3	8	M 16	(5/8")	18	6.11	5.68
	150	265	18	225	202	3	8	M 16	(5/8")	18	7.51	7.02
	(175)	295	20	255	232	3	8	M 16	(5/8")	18	10.4	9.85
	200	320	20	280	258	3	8	M 16	(5/8")	18	12.3	11.7
	250	375	22	335	312	3	12	M 16	(5/8")	18	18.3	17.6
	300	440	22	395	365	4	12	M 20	(3/4")	23	25.3	24.0
ND-10 Note from 10 mm to 175 mm see ND-16	350	490	22	445	415	4	12	M 20	(3/4")	23	31.6	30.1
	400	540	22	495	465	4	16	M 20	(3/4")	23	38.4	36.4
	500	645	24	600	570	4	20	M 20	(3/4")	23	60.4	58.1
	200	340	24	295	268	3	8	M 20	(3/4")	23	16.5	15.8
	250	395	26	350	320	3	12	M 20	(3/4")	23	24.0	23.1
	300	445	26	400	370	4	12	M 20	(3/4")	23	30.9	29.4
ND-16 Note : For DIN 2527ND-10-4 Holes	350	505	26	460	430	4	16	M 20	(3/4")	23	40.6	38.0
	400	565	26	515	482	4	16	M 24	(3/4")	27	49.4	47.5
	500	670	28	620	585	4	20	M 24	(3/4")	27	75.0	72.7
	10	90	14	60	40	2	4	M 12	(1/2")	14	0.63	0.56
	15	95	14	65	45	2	4	M 12	(1/2")	14	0.72	0.64
	20	105	16	75	58	2	4	M 12	(1/2")	14	1.01	0.93
	25	115	16	85	68	2	4	M 12	(1/2")	14	1.23	1.13
	32	140	16	100	78	2	4	M 16	(5/8")	18	1.80	1.66
	40	150	16	110	88	3	4	M 16	(5/8")	18	2.09	1.85
	50	165	18	125	102	3	4	M 16	(5/8")	18	2.88	2.59
	65	185	18	145	122	3	4	M 16	(5/8")	18	3.66	3.33
	80	200	20	160	138	3	4/8	M 16	(5/8")	18	4.77	4.34
	100	220	20	180	158	3	8	M 16	(5/8")	18	5.65	5.26
	125	250	22	210	188	3	8	M 16	(5/8")	18	8.42	7.67
	150	285	22	240	212	3	8	M 20	(3/4")	23	10.4	9.85
	(175)	315	24	270	242	3	8	M 20	(3/4")	23	14.0	13.5
	200	340	24	295	268	3	12	M 20	(3/4")	23	16.1	15.6
	250	405	26	355	320	3	12	M 24	(7/8")	27	24.9	23.9
	300	460	28	410	378	4	12	M 24	(7/8")	27	35.1	33.6
	350	520	30	470	438	4	16	M 24	(7/8")	27	47.8	46.2
	400	580	32	525	490	4	16	M 27	(1")	30	63.5	61.5
	500	715	34	650	610	4	20	M 30	(1 1/8")	33	102	99.5



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DIN 2527

			Flange		Raised Face					Dia. of Bolt	Weight of One Flange (7.85 kg/dm³)	
	NW	D	b	k	d ₄	f	No.	Bolts	d ₂	Kg	Type-B	Type-C
ND-25 Note : From 10 mm to 150 mm See ND-40	(175)	339	28	280	248	3	12	M 24 (7/8")	27	17.3	16.5	
	200	360	30	310	278	3	12	M 24 (7/8")	27	22.3	21.5	
	250	425	32	370	335	3	12	M 27 (1")	30	33.5	32.5	
	300	485	34	430	395	4	16	M 27 (1")	30	46.3	44.7	
	350	55	38	490	450	4	16	M 30 (1 1/8")	33	68.0	65.9	
	400	620	40	550	505	4	16	M 33 (1 1/4")	36	89.7	87.0	
	500	730	44	660	615	4	20	M 33 (1 1/4")	36	138	134	
ND-40	10	90	16	60	40	2	4	M 12 (1/2")	14	0.72	0.62	
	15	95	16	65	45	2	4	M 12 (1/2")	14	0.81	0.74	
	20	105	18	75	58	2	4	M 12 (1/2")	14	1.24	1.05	
	25	115	18	85	68	2	4	M 12 (1/2")	14	1.38	1.31	
	32	140	18	100	78	2	4	M 16 (5/8")	18	2.03	1.82	
	40	150	18	110	88	3	4	M 16 (5/8")	18	2.35	2.11	
	50	165	20	125	102	3	4	M 16 (5/8")	18	3.20	2.91	
	65	185	22	145	122	3	8	M 16 (5/8")	18	4.29	4.13	
	80	200	24	160	138	3	8	M 16 (5/8")	18	5.88	5.21	
	100	236	24	190	162	3	8	M 12 (3/4")	23	7.54	7.08	
	125	270	26	220	188	3	8	M 24 (7/8")	27	10.8	10.4	
	150	300	28	250	218	3	8	M 24 (7/8")	27	14.5	13.9	
	175	350	32	295	260	3	12	M 27 (1")	30	22.1	21.3	
	200	375	34	320	285	3	12	M 27 (1")	30	27.2	26.2	
	250	450	38	385	345	3	12	M 30 (1 1/8")	33	43.8	43.1	
	300	515	42	450	410	4	16	M 30 (1 1/8")	33	63.3	62.2	
	350	580	46	510	465	4	16	M 33 (1 1/4")	36	89.5	87.2	
	400	660	50	585	535	4	16	M 36 (1 3/8")	39	127	124	
	500	755	52	670	615	4	20	M 39 (1 1/2")	42	172	168	

**FLANGE FACINGS
TONGUE AND GROOVE,
NOMINAL PRESSURE
10 TO 100 ACORDING
TO DIN 2512**



TONGUE



GROOVE

Normal Tongue			Groove				Normal Tongue			Groove			
Pipe Size	d ₄₂ +0.5	d ₄₃ -0.5	f ₁ +0.5	d ₄₁ +0.5	d ₄₄ -0.5	f ₂ +0.5	Pipe Size	d ₄₂ +0.5	d ₄₃ -0.5	f ₁ +0.5	d ₄₁ +0.5	d ₄₄ -0.5	f ₂ +0.5
10	24	34	4	23	35	3	175	213	233	4.5	212	234	3.5
15	29	39	4	28	40	3	200	239	259	4.5	238	260	3.5
20	36	50	4	35	51	3	250	292	312	4.5	291	313	3.5
25	47	57	4	42	58	3	300	343	363	4.5	342	364	3.5
32	151	65	4	50	66	3	350	395	421	5	394	422	4
40	61	75	4	60	76	3	400	447	473	5	446	474	4
50	73	87	4	72	88	3	500	549	575	5	548	576	4
65	95	109	4	94	110	3	600	649	675	5	648	676	4
80	106	120	4	105	121	3	700	751	777	5	750	778	4
100	129	149	4.5	128	150	3.5	800	856	882	5	855	883	4
125	155	175	4.5	154	176	3.5	900	961	987	5	960	988	4
150	183	203	4.5	182	204	3.5	1000	1061	1091	6	1060	1092	5



FORMULA OF WEIGHT

- 1) Weight of Stainless Steel Pipes & Tubes
 $\text{O.D. (mm)} - \text{W.T. (mm)} \times \text{W.T. (mm)} \times 0.02466 = \text{Kg. per Mtr.}$
- 2) Sheet width required for rolled and welded pipes
 $\text{O.D. (mm)} - \text{THK (mm)} \times 3.14 = \text{Sheet Width}$
- 3) Weight of Stainless Steel Sheets
 $\text{Length (mtr.)} \times \text{Width (mtr.)} \times \text{Thk (mm.)} \times 8 = \text{Kg Per Sheet}$
- 4) Weight of Stainless Steel Circle & Blanks
 $\text{O.D. (mm)} \times \text{O.D. (mm)} \times \text{Thk (mm)} / 160/1000 = \text{Kg Per Pcs.}$
- 5) Weight of Stainless Steel Rounds
 $\text{Dia (mm)} \times \text{Dia (mm)} \times 0.00623 = \text{Per Mtr.}$
- 6) Weight of Stainless Steel Hexagonal Rods
 $\text{Dia (mm)} \times \text{Dia (mm)} \times 0.00679 = \text{Per Mtr.}$
- 7) Weight of Stainless Steel Square Bars
 $\text{Dia (mm)} \times \text{Dia (mm)} \times 0.00787 = \text{Kg Per Mtr.}$
- 8) Weight of Carbon Steel Pipes & Tubes
 $\text{O.D. (mm)} - \text{W.T (mm)} \times \text{W.T. (mm)} \times 0.02466 = \text{Kg Per Mtr.}$
- 9) Weight of Carbon Steel Sheets - Plates
 $\text{Length (mtr.)} \times \text{Width (mtr.)} \times \text{Thk (mm)} \times 7.85 = \text{Kg Per Sheet}$
- 10) Weight of Copper Pipes
 $\text{O.D. (mm)} - \text{W.T (mm)} \times \text{W.T (mm)} \times 0.0256 = \text{Kg Per Mtr.}$
- 11) Weight of Lead Pipes (appro.)
 $\text{O.D. (mm)} - \text{W.T (mm)} \times \text{W.T. (mm)} \times 0.0345 = \text{Kg Per Mtr.}$
- 12) Weight of Lead Sheets (appro.)
 $\text{Length (mtr.)} \times \text{Width (mtr.)} \times \text{Thk (mm)} \times 11.2 = \text{Kg Per Mtr.}$
- 13) Weight of Alluminium Pipes (appro.)
 $\text{O.D. (mm)} - \text{W.T. (mm)} \times \text{W.T. (mm)} \times 0.0082 = \text{Kg Per Mtr.}$
- 14) Weight of Alluminium Sheets (appro.)
 $\text{Length (mtr.)} \times \text{Width (mtr.)} \times \text{Thk (mm)} \times 2.66 = \text{Kg Per Sheet}$



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NRV with Union (SMS)



N R V Welded



Angular Valve



Reducer Concentric



Reducing Incentric



Reducing Liner



Inline Side Glass



DN-100, Side Glass



Welded Union



Tee



U-Bend



Bend



Din Union



SMS Union



Blind Nut



Bend 45°



Long Bend



Bend 45°



Boll Feet



C-Spawner



Foot Valve



TC Clamp



Welded Clamp



Socket Clamp



Wafer Check Valve



Disc Check Valve



NRV Horizontal



Male Connector



Male Elbow



Union Elbow



NRV Vertical



Three Way Valve



Ball Valve



Union



Female Connector



Union Tee



Globe Valve



Gate Valve



Flange Type Ball Valve



Three Way Manifold



Two Way Manifold



Nut Ferrule Valve



APPLICATIONS

Acid & Chemical Industry

Automobile Industry

Beverage Industry

Cement Industry

Electric & Electronic Industry

Food Industry

Oil & Gas Industry

Paper & Pulp Industry

Pharmacy Industry

Power Plants

Refinery Plants

Sugar Industry

Textile Industry

Water Piping System

Wind Power Plant etc



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