



HIGH PRESSURE FITTINGS

3000lb, 6000lb, 9000lb Carbon Steel and Galvanised, Stainless Steel and other alloys

ABRASION RESISTANT PIPE

Ultra 600 Hardened Steel Piping for Paste Fill, Bi-Metal or Clad Piping

CHROME MOLY & LOW TEMP MATERIALS

Plate, Pipe, Fittings & Flanges
A387, A333, A335 etc

X42, X52, X65, X70, X80 MATERIALS

Pipe, Fittings & Flanges

INDUCTION BENDS

3D, 5D, 10D etc

CUT GROOVE FITTINGS

Bends, Tees, Reducers etc

SPECIAL ALLOYS

Hastelloy, Inconel, Duplex, Titanium etc

WEATHERING STEELS

Corten A, Corten B

WEAR PLATE

Composite type weld overlay

HEAVY WALL PIPE & FITTINGS

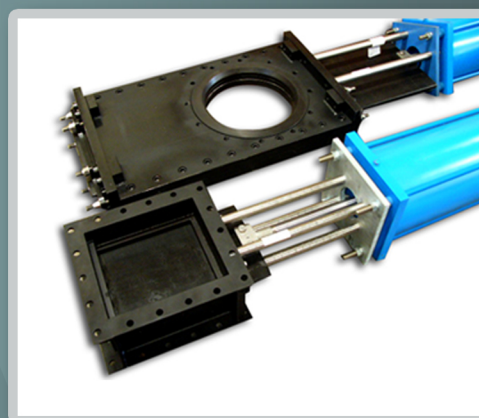
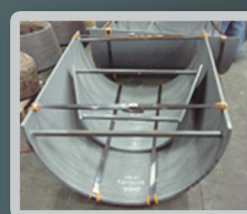
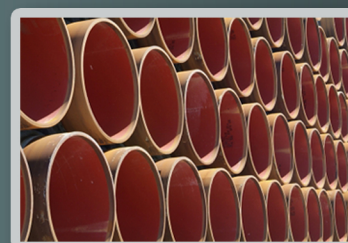
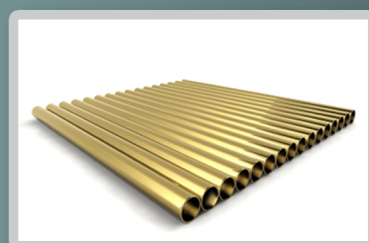
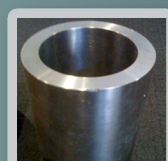
S120, S160, XXS, Special Manufacture

SLURRY VALVES

O-Port Valves
Full Bore Plug Valves
Ceramic Lined Valves
3-Way Valves

OIL & GAS VALVES

Ball, Gate, Globe, Check etc



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Carbon And Stainless Steel Pipe Chart

UPPER FIGURE = WALL THICKNESS

LOWER FIGURE = KGM/METER

INCHES	NPS MM	OD MM	5S	10S	10	20	30	STD	40S	40	60	XS	80S	80	100	120	140	160	XXS
1/8	6	10.3		1.24 0.28				1.73 0.37	1.73 0.36	1.73 0.37		2.41 0.47	2.41 0.48	2.41 0.47					
1/4	8	13.7		1.65 0.51				2.24 0.63	2.24 0.64	2.24 0.63		3.02 0.80	3.02 0.82	3.02 0.80					
3/8	10	17.1		1.65 0.64				2.31 0.84	2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.12	3.20 1.10					
1/2	15	21.3	1.65 0.82	2.11 1.01				2.77 1.27	2.77 1.30	2.77 1.27		3.73 1.62	3.73 1.65	3.73 1.62				4.78 1.95	7.47 2.55
3/4	20	26.7	1.65 1.04	2.11 1.31				2.87 1.69	2.87 1.71	2.87 1.69		3.91 2.20	3.91 2.24	3.91 2.20				5.56 2.90	7.82 3.64
1	25	33.4	1.65 1.33	2.77 2.13				3.38 2.50	3.38 2.55	3.38 2.50		4.55 3.24	4.55 3.29	4.55 3.24				6.35 4.24	9.09 5.45
1 1/4	32	42.2	1.65 1.68	2.77 2.76				3.56 3.39	3.56 3.46	3.56 3.39		4.85 4.47	4.85 4.56	4.85 4.47				6.35 5.61	9.70 7.77
1 1/2	40	48.3	1.65 1.95	2.77 3.17				3.68 4.05	3.68 4.13	3.68 4.05		5.08 5.41	5.08 5.51	5.08 5.41				7.14 7.25	10.15 9.56
2	50	60.3	1.65 2.44	2.77 4.01				3.91 5.44	3.91 5.54	3.91 5.44		5.54 7.48	5.54 7.63	5.54 7.48				8.74 11.11	11.07 13.44
2 1/2	65	73.0	2.11 3.77	3.05 5.36				5.16 8.63	5.16 8.81	5.16 8.63		7.01 11.41	7.01 11.64	7.01 11.41				9.53 14.92	14.02 20.39
3	80	88.9	2.11 4.60	3.05 6.59				5.49 11.29	5.49 11.52	5.49 11.29		7.62 15.27	7.62 15.59	7.62 15.27				11.13 21.35	15.24 27.68
3 1/2	90	101.6	2.11 5.29	3.05 7.55				5.74 13.57	5.74 13.84	5.74 13.57		8.08 18.63	8.08 19.01	8.08 18.63					
4	100	114.3	2.11 5.96	3.05 8.52				6.02 16.07	6.02 16.40	6.02 16.07		8.56 22.32	8.56 22.77	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03
5	125	141.3	2.77 9.67	3.40 11.82				6.55 21.77	6.55 22.20	6.55 21.77		9.53 30.97	9.53 31.59	9.53 30.97		12.70 40.28		15.88 49.11	19.05 57.43
6	150	168.3	2.77 11.55	3.40 14.13				7.11 28.26	7.11 28.83	7.11 28.26		10.97 42.56	10.97 43.42	10.97 42.56		14.27 54.20		18.26 67.56	21.95 79.22
8	200	219.1	2.77 15.09	3.76 20.37		6.35 33.31	7.04 36.81	8.18 42.55	8.18 43.39	8.18 42.55	10.31 53.08	12.70 64.64	12.70 65.95	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92
10	250	273.1	3.40 23.08	4.19 28.34		6.35 41.77	7.80 51.03	9.27 60.31	9.27 61.52	9.27 60.31	12.70 81.55	12.70 81.55	12.70 83.19	12.70 96.01	15.09 114.75	18.26 133.06	25.40 155.15	28.58 172.33	25.40 155.15
12	300	323.9	3.96 31.89	4.57 36.73		6.35 49.73	8.38 65.20	9.53 73.88	9.52 75.32	10.31 79.73	14.27 108.96	12.70 97.46	12.70 99.43	12.70 132.08	17.48 159.91	21.44 186.97	25.40 208.14	33.32 238.76	25.40 186.97
14	350	355.6	3.96 35.06	4.78 42.14	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33		11.13 94.55	15.09 126.71	12.70 107.39		19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70	
16	400	406.4	4.19 42.41	4.78 48.26	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		21.44 203.53	26.19 245.56	30.96 286.84	36.53 333.19	40.49 365.35	
18	450	457.2	4.19 47.77	4.78 54.36	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		23.88 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37	
20	500	508.0	4.78 60.46	5.54 70.00	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	50.01 564.81	
22	550	558.8	4.78 66.57	5.54 77.06	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13			22.23 294.25	12.70 171.09		28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.26	
24	600	609.6	5.54 84.16	6.35 96.37	6.35 94.53	9.53 141.12	12.70 209.64	9.53 141.12		17.48 255.41	24.61 355.26	12.70 187.06		30.96 442.08	38.89 547.71	46.02 640.03	52.27 720.15	59.54 808.22	
26	650	660.04			7.92 127.36	12.70 202.72		9.53 152.87				12.70 202.72	<p>Conversion</p> <p>MM to Inches Multiply by 0.03937</p> <p>Inches to MM Multiply by 25.4</p> <p>Meters to Feet Multiply by 3.281</p> <p>Feet to Meters Multiply by 0.3048</p> <p>Kilograms to Pounds Multiply by 2.2046</p> <p>Pounds to Kilograms Multiply by 0.4536</p> <p>PSI(Lbs/SqIn) to MPa(Mega Pascals)</p> <p>Multiply by 0.006894757</p> <p>KSI to MPa Multiply by 6.894757</p> <p>MPa to PSI Multiply by 145.0377</p> <p>MPa to KSI Multiply by 0.1450377</p> <p>kgf/mm2 to MPa Multiply by 9.806650</p> <p>MPa to kgf/mm2 Multiply by 0.1019716</p>						
28	700	711.2			7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85				12.70 218.69							
30	750	762.0	6.35 120.72	7.92 150.36	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84				12.70 234.67							
32	800	812.8			7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82		17.48 342.91		12.70 250.64							
34	850	863.6			7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31		17.48 364.90		12.70 266.61							
36	900	914.4			7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56		19.05 420.42		12.70 282.27							
38	950	965.2						9.53 224.54				12.70 298.24							
40	1000	1016.0						9.53 236.63				12.70 314.22							
42	1050	1066.8						9.53 248.52				12.70 330.19							
44	1100	1117.6						9.53 260.50				12.70 346.16							
46	1150	1168.4						9.53 272.25				12.70 351.82							
48	1200	1219.2						9.53 284.24				12.70 377.79							

DIMENSION SPECIFICATION TO ANSI B36.10/B36.19 (5 S, 10 S, 40 S, 80 S – ANSI B36.19) Wall Thickness = mm Weight = kg/m (plain end mass)



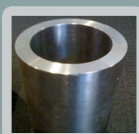
CERAMIC VALVES



INDUCTION BENDS



3000LB/6000LB FITTINGS



FORGING



COMPOSITE WEAR PLATE



FITTINGS



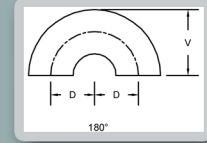
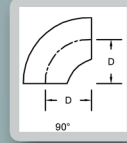
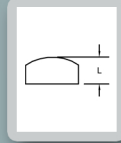
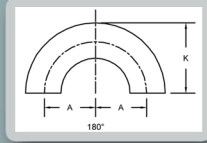
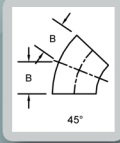
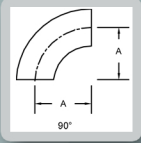
SLURRY VALVES

Carbon Steel Butt weld Fittings

To ANSI B16.9, B16.28 & BS1640

LONG RADIUS WELDING ELBOWS, RETURN BENDS & CAPS (B16.9)

SHORT RADIUS WELDING ELBOWS & RETURN BENDS (B16.28)



NOMINAL SIZES SHOWN ARE ∇ DN: SI METRIC TERM ∇ NPS: ANSI TERM

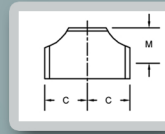
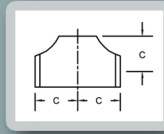
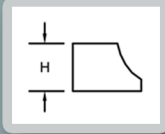
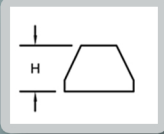
Nom. Size		PIPE OD mm	WALL THICKNESS - MILLIMETRES (mm)													A	B	K	D	V	E. Std. Wt. & Ex. Stg.	Nom. Size	
∇ DN	∇ NPS		Sch. 10	Sch. 20	Sch. 30	Std. Wt.	Sch. 40	Sch. 60	X Stg.	Sch. 80	Sch. 100	Sch. 120	Sch. 140	Sch. 160	X.X. Stg.							∇ DN	∇ NPS
15	1/2	21.3	-	-	-	2.77	↑ SAME AS STD. WT. ↓	-	3.73	↑ SAME AS X. STG. ↓	-	-	-	4.78	7.47	38	16	47.5	-	-	25.4	15	1/2
20	3/4	26.7	-	-	-	2.87		-	3.91		-	-	-	5.56	7.82	28.5	11	43	19	33	25.4	20	3/4
25	1	33.4	-	-	-	3.38		-	4.55		-	-	-	6.35	9.09	38	22	55.5	25.4	41	38.1	25	1
32	1 1/4	42.2	-	-	-	3.56		-	4.85		-	-	-	6.35	9.70	47.5	25.4	70	32	52	38.1	32	1 1/4
40	1 1/2	48.3	-	-	-	3.68		-	5.08		-	-	-	7.14	10.15	57	29	82.5	38	62	38.1	40	1 1/2
50	2	60.3	-	-	-	3.91	↑ SAME AS STD. WT. ↓	-	5.54	↑ SAME AS X. STG. ↓	-	-	-	8.74	11.07	76	35	106	51	81	38.1	50	2
65	2 1/2	73.0	-	-	-	5.16		-	7.01		-	-	-	9.53	14.02	95	44.5	132	63.5	100	38.1	65	2 1/2
80	3	88.9	-	-	-	5.49		-	7.62		-	-	-	11.13	15.24	114	51	159	76	121	50.8	80	3
90	3 1/2	101.6	-	-	-	5.74		-	8.08		-	-	-	-	16.15	133	57	184	89	140	63.5	90	3 1/2
100	4	114.3	-	-	-	6.02		-	8.56		-	11.13	-	13.49	17.12	152	63.5	210	102	159	63.5	100	4
125	5	141.3	-	-	-	6.55	↑ SAME AS STD. WT. ↓	-	9.53	↑ SAME AS X. STG. ↓	-	12.70	-	15.88	19.05	190	79	262	127	197	76.2	125	5
150	6	168.3	-	-	-	7.11		-	10.97		-	14.27	-	18.26	21.95	229	95	313	152	237	88.9	150	6
200	8	219.1	-	6.35	7.04	8.18		10.31	12.70		15.09	18.26	20.62	23.01	22.23	305	127	414	203	313	102	200	8
250	10	273.1	-	6.35	7.80	9.27		12.70	12.70		15.09	18.26	21.44	25.40	28.58	381	159	517	254	390	127	250	10
300	12	323.9	-	6.35	8.38	9.53		14.27	12.70		17.48	21.44	25.40	28.58	33.32	457	190	619	305	467	152	300	12
350	14	355.6	6.35	7.92	9.53	9.53	10.31	15.09	12.70	19.05	23.83	27.79	31.75	35.71	-	533	222	711	356	533	165	350	14
400	16	406.4	6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.44	26.19	30.96	36.53	40.49	-	610	254	813	406	610	178	400	16
450	18	457	6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.83	29.36	34.93	39.67	45.24	-	686	286	914	457	686	203	450	18
500	20	508	6.35	9.53	12.70	9.53	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	-	762	318	1016	508	762	229	500	20
600	24	610	6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.96	38.89	46.02	52.37	59.54	-	914	381	1219	610	914	267	600	24
750	30	762	7.92	12.70	15.88	9.53	-	-	12.70	-	-	-	-	-	-	1143	470	1524	762	1143	267	750	30
900	36	914	7.92	12.70	15.88	9.53	19.05	-	12.70	-	-	-	-	-	-	1372	565	-	914	1372	267	900	36

CONCENTRIC & ECCENTRIC REDUCERS (B.16.9A)

STRAIGHT TEES (B.16.9)

REDUCING TEES (B.16.9)

Note: All dimensions are in millimetres - (mm)



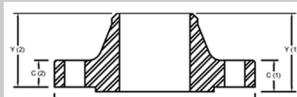
NOMINAL SIZES SHOWN ARE ∇ DN: SI METRIC TERM ∇ NPS: ANSI TERM

NOMINAL SIZE				C	M	H	NOMINAL SIZE				C	M	H	NOMINAL SIZE				C	M	H				
DN ∇		NPS ∟					DN ∇		NPS ∟					DN ∇		NPS ∟								
Large End	Small End	Large End	Small End				Large End	Small End	Large End	Small End				Large End	Small End	Large End	Small End							
20	20 15	¾	¾ ½	28.6 28.6	- 28.6	- 38.1	100	100 90 80 65 50 40	4 3½ 3 2½ 2 1½	105 105 105 105 105 105	- 102 98.4 95.3 88.9 85.7	- 102 102 102 102 102	400	400 350 300 250 200 150	16 14 12 10 8 6	305 305 305 305 305 305	- 305 295 283 273 264	- 356 356 356 356 356 356						
25	25 20 15	1	1 ¾ ½	38.1 38.1 38.1	- 38.1 38.1	- 50.8 50.8		125	125 100 90 80 65 50	5 4 3½ 3 2½ 2	124 124 124 124 124 124	- 117 114 111 108 105		- 127 127 127 127 127	450	450 400 350 300 250 200	18 16 14 12 10 8	343 343 343 343 343 343	- 330 330 321 308 298	- 381 381 381 381 381 381				
	32		32 25 20 15	1¼	¾ 1 ¾ ½	47.6 47.6 47.6 47.6			- 47.6 47.6 47.6	- 50.8 50.8 50.8	150	150 125 100 90 80 65		6 5 4 3½ 3 2½		143 143 143 143 143 143	- 137 130 127 124 121	- 140 140 140 140 140	500	500 450 400 350 300 250 200	20 18 16 14 12 10 8	381 381 381 381 381 381 381	- 368 356 356 346 333 324	- 508 508 508 508 508 508
			40		40 32 25 20 15	1½			1½ 1¼ 1 ¾ ½	57.2 57.2 57.2 57.2 57.2		- 57.2 57.2 57.2 57.2		- 63.5 63.5 63.5 63.5		200	200 150 125 100 90 80 65	8 6 5 4 3½ 3 2½		178 178 178 178 178 178 178	- 168 162 155 152 152 152	- 152 152 152 152 152 152	600	600 500 450 400 350 300 250 200
50	50 40 32 25 20	2		2 1½ 1¼ 1 ¾	63.5 63.5 63.5 63.5 63.5		- 60.3 57.2 50.8 44.5		- 76.2 76.2 76.2 76.2	250		250 200 150 125 100 90 80	10 8 6 5 4 3½ 3 2½	216 216 216 216 216 216 216 216			- 203 194 191 184 184 184 184	- 178 178 178 178 178 178 178		750	750 600 500 450 400	30 24 20 18 16		559 559 559 559 559
	65		65 50 40 32 25	2½	2½ 2 1½ 1	76.2 76.2 76.2 76.2	- 69.9 66.7 63.5 57.2	- 88.9 88.9 88.9 88.9	300			300 250 200 150 100	12 10 8 6 4	254 254 254 254 254	- 241 229 219 210		- 203 203 203 203	900			900 750 600 450	36 30 24 20		673 673 673 673
			80		80 65 50 40 32 25	3	3 2½ 2 1½ 1	85.7 85.7 85.7 85.7 85.7			- 82.6 76.2 73.0 69.9 66.9	- 88.9 88.9 88.9 88.9 88.9	350	350 300 250 200 150	14 12 10 8 6		279 279 279 279 279		- 270 257 248 238		- 330 330 330 330	Note: All dimensions are in millimetres – (mm)		
					90		90 80 65 50 40	3½			3½ 3 2½ 2 1½	95.3 95.3 95.3 95.3 95.3		- 92.1 88.9 82.6 79.4	- 102 102 102 102									

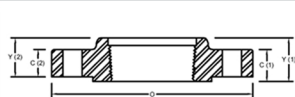
Forged Flanges To American Standards

DN 15 to 600 are to ANSI B16.5 (BS 1560).

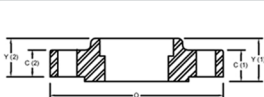
DN 750 & 900 are to BS 3292 for Slip-On & Weldneck only.



WELDING NECK FLANGE



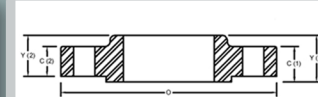
THREADED FLANGE



SOCKET WELDING(DN 15-20)



BLIND FLANGE UP TO DN 600



SLIP ON FLANGE

NOMINAL SIZES SHOWN ARE

DN: SI METRIC TERM

NPS: ANSI TERM

Note: All dimensions are in millimetres – (mm)

Nominal Size		PN20 (CLASS 150)							PN50 (CLASS 300)							PN100 (CLASS 600)							Nominal Size	
		Dia. of Fig.	Thick-ness of Fig. Min.	Length Thru Hub		Dia. of Bolt Circle	Dia. of Bolt Holes	No. of Bolts	Dia. of Fig.	Thick-ness of Fig. Min.	Length Thru Hub		Dia. of Bolt Circle	Dia. of Bolt Holes	No. of Bolts	Dia. of Fig.	Thick-ness of Fig. Min.	Length Thru Hub		Dia. of Bolt Circle	Dia. of Bolt Holes	No. of Bolts		
Thrd. Slip-on Soc/Weld Y(1) ⁺	Weld Neck Y(1) ⁺			Thrd. Slip-on Soc/Weld Y(1) ⁺	Weld Neck Y(1) ⁺						Thrd. Slip-on Soc/Weld Y(2) ⁺	Weld Neck Y(2) ⁺						Thrd. Slip-on Soc/Weld Y(2) ⁺	Weld Neck Y(2) ⁺					
DN	NPS	0	C(1) ⁺					0	C(1) ⁺						0	C(2) ⁺							DN	NPS
15	½	90	11.5	16	48	60.5	16	4	95	14.5	22	52	66.5	16	4	95	14.5	22	52	66.5	16	4	15	½
20	¾	100	13.0	16	52	70.0	16	4	120	16.0	25	57	82.5	20	4	120	16.0	25	57	82.5	20	4	20	¾
25	1	110	14.5	17	56	79.5	16	4	125	17.5	27	62	89.0	20	4	125	17.5	27	62	89.0	20	4	25	1
32	1¼	120	16.0	21	57	89.0	16	4	135	19.5	27	65	98.5	20	4	135	21.0	29	67	98.5	20	4	32	1¼
40	1½	127	17.5	22	62	98.5	16	4	155	21.0	30	68	114.5	22	4	155	22.5	32	70	114.5	22	4	40	1½
50	2	150	19.5	25	64	120.5	20	4	165	22.5	33	70	127.0	20	8	165	26.5	37	73	127.0	20	8	50	2
65	2½	180	22.5	29	70	139.5	20	4	190	25.5	38	76	149.0	22	8	190	29.0	41	79	149.0	22	8	65	2½
80	3	190	24.0	30	70	152.5	20	4	210	29.0	43	79	168.5	22	8	210	32.0	46	83	168.5	22	8	80	3
90	3½	215	24.0	32	71	178.0	20	8	230	30.5	44	81	184.0	22	8	230	35.0	49	86	184.0	26	8	90	3½
100	4	230	24.0	33	76	190.5	20	8	255	32.0	48	86	200.0	22	8	275	38.5	54	102	216.0	26	8	100	4
125	5	255	24.0	36	89	216.0	22	8	280	35.0	51	98	235.0	22	8	330	44.5	60	114	267.0	30	8	125	5
150	6	280	25.5	40	89	241.5	22	8	320	37.0	52	98	270.0	22	12	355	48.0	67	117	292.0	30	12	150	6
200	8	345	29.0	44	102	298.5	22	8	380	41.5	62	111	330.0	26	12	420	55.5	76	133	349.0	33	12	200	8
250	10	405	30.5	49	102	362.0	26	12	445	48.0	67	117	387.5	30	16	510	63.5	86	152	432.0	36	16	250	10
300	12	485	32.0	56	114	432.0	26	12	520	51.0	73	130	451.0	33	16	560	66.5	92	156	489.0	36	20	300	12
350	14	535	35.0	57	127	476.0	30	12	585	54.0	76	143	514.5	33	20	605	70.0	94	165	527.0	39	20	350	14
400	16	600	37.0	64	127	540.0	30	16	650	57.5	83	146	571.5	36	20	685	76.5	106	178	603.0	42	20	400	16
450	18	635	40.0	68	140	578.0	33	16	710	60.5	89	159	628.5	36	24	745	83.0	117	184	654.0	45	20	450	18
500	20	700	43.0	73	145	635.0	33	20	775	63.5	95	162	686.0	36	24	815	89.0	127	190	724.0	45	24	500	20
600	24	815	48.0	83	152	749.5	36	20	915	70.0	106	168	813.0	42	24	940	102.0	140	203	838.0	52	24	600	24
750	30	985	54.0 ⁺	89	130.2	914.0	35	28	1090	92.0	210	210	997.0	48	28	1130	114.0	248	248	1022.0	54	28	750	30
900	36	1170	60.3 ⁺	95	136.5	1086.0	41	32	1270	105.0	241	241	1168.0	54	32	1315	124.0	283	283	1194.0	67	28	900	36

Nominal Size		PN150 (CLASS 900)							PN250 (CLASS 1500)							PN420 (CLASS 2500)							Nominal Size				
		Dia. of Fig.	Thick-ness of Fig. Min.	Length Thru Hub		Dia. of Bolt Circle	Dia. of Bolt Holes	No. of Bolts	Dia. of Fig.	Thick-ness of Fig. Min.	Length Thru Hub		Dia. of Bolt Circle	Dia. of Bolt Holes	No. of Bolts	Dia. of Fig.	Thick-ness of Fig. Min.	Length Thru Hub		Dia. of Bolt Circle	Dia. of Bolt Holes	No. of Bolts					
Thrd. Slip-on Soc/Weld Y(2) ⁺	Weld Neck Y(2) ⁺			Thrd. Slip-on Soc/Weld Y(2) ⁺	Weld Neck Y(2) ⁺						Thrd. Slip-on Soc/Weld Y(2) ⁺	Weld Neck Y(2) ⁺						Thrd. Slip-on Soc/Weld Y(2) ⁺	Weld Neck Y(2) ⁺								
DN	NPS	0	C(2) ⁺					0	C(2) ⁺						0	C(2) ⁺							DN	NPS			
15	½							120	22.5	32	60	82.5	22	4	135	30.5	40	73	89.0	22	4	15	½				
20	¾							130	25.5	35	70	89.0	22	4	140	32.0	43	79	95.0	22	4	20	¾				
25	1							150	29.0	41	73	101.5	26	4	160	35.0	48	89	108.0	26	4	25	1				
32	1¼							160	29.0	41	73	111.0	26	4	185	38.5	52	95	130.0	30	4	32	1¼				
40	1½							180	32.0	44	83	124.0	30	4	205	44.5	60	111	146.0	33	4	40	1½				
50	2							215	38.5	57	102	165.0	26	8	235	51.0	70	127	171.5	30	8	50	2				
65	2½							245	41.5	64	105	190.5	30	8	270	57.5	79	143	197.0	33	8	65	2½				
80	3	240	38.5	54	102	190.5	26	8	270	48.0	73	118	203.0	33	8	305	67.0	92	168	228.5	36	8	80	3			
100	4	295	44.5	70	114	235.0	32	8	310	54.0	90	124	241.5	36	8	355	76.5	108	190	273.0	42	8	100	4			
125	5	350	51.0	79	127	279.5	35	8	375	73.5	105	155	292.0	42	8	420	92.5	130	229	324.0	48	8	125	5			
150	6	380	56.0	86	140	317.5	32	12	395	83.0	119	171	317.5	39	12	485	108.0	152	273	368.5	56	8	150	6			
200	8	470	63.5	102	162	393.5	39	12	485	92.0	143	213	393.5	45	12	550	127.0	178	318	438.0	56	12	200	8			
250	10	545	70.0	108	184	470.0	39	16	585	108.0	159	254	482.5	52	12	675	165.5	229	419	539.5	68	12	250	10			
300	12	610	79.5	117	200	533.50	39	20	675	124.0	181	283	571.5	56	16	760	184.5	254	464	619.0	76	12	300	12			
350	14	640	86.0	130	213	559.0	42	20	750	133.5	298	311	635.0	60	16									350	14		
400	16	705	89.0	133	216	616.0	45	20	825	146.5			705.0	68	16										400	16	
450	18	785	102.0	152	229	686.0	52	20	915	162.0		327	774.5	76	16										450	18	
500	20	855	108.0	159	248	749.5	54	20	985	178.0		356	832.0	80	16											500	20
600	24	1040	140.0	203	292	901.5	68	20	1170	203.5		406	990.5	94	16											600	24

NOTES:

- The 1.6mm Raised Face is included in thickness C(1) and length through hub Y(1). This applies to PN20 and PN50 Pressure Ratings.
- The 6.4mm Raised Face is not included in thickness C(2) and length through hub Y(2). PN100, 150, 250 and 420 Pressure Ratings are regularly furnished with 6.4mm Raised Face which is additional to the flange thickness C(2) and Y(2).
- Always specify bore when ordering weldneck flanges. Bore dimensions shown opposite also provide inside pipe diameters

LARGE DIAMETER FLANGES ABOVE DN 600

For Blind Flanges refer to ASME B16.47-A (MSS SP44).

BS 3293 covers Slip-On and Weldneck but excludes Blind Flanges.

ASME B16.47-A (MSS SP44) covers Blind and Weldneck but excludes Slip-On Flanges.

BS 3293 Weldneck PN20 flange thickness, C(1), is less than MSS SP44 equivalents.

ASME B16.47-B (API - 605) Dimensions for Large Diameter Flanges vary considerably from both BS 3293 and ASME B16.47-A (MSS SP44) – Details on request.

Alt. Press Ratings mm	NOMINAL SIZE		O.D. of PIPE mm	APPROXIMATE WELDING NECK FLANGE BORES – mm														
	▽ DN	┐ NPS		SCH. 10	SCH. 20	SCH. 30	STD. WT	SCH. 40	SCH. 60	EXT. STG.	SCH. 80	SCH. 100	SCH. 120	SCH. 140	SCH. 160	X.X. STG.		
35	15	½	21.3				15.8	SAME AS STD. WT. ↑		13.9	SAME AS EXT. STG. ↓				11.8	6.4		
43	20	¾	26.7				20.9			18.9							15.5	11.0
51	25	1	33.4				26.6			24.3							20.7	15.2
64	32	1¼	42.2				35.1			32.5							29.5	22.8
73	40	1½	48.3				40.9			38.1							34.0	27.9
92	50	2	60.3				52.5			49.2							42.9	38.2
105	65	2½	73.0				62.7			59.0							54.0	45.0
127	80	3	88.9				77.9			73.7							66.7	58.4
140	90	3½	101.6				90.1			85.4								
157	100	4	114.3				102.3			97.2								80.1
186	125	5	141.3				128.2		122.3			92.1			109.6	103.2		
216	150	6	168.3				154.1		146.3			139.7			131.8	124.4		
270	200	8	219.1		206.4	205.0	202.7		198.5	193.7		188.9	182.6	177.8	173.1	174.6		
324	250	10	273.1		260.3	257.5	254.5		247.7	247.7	242.9	236.5	230.2	222.3	215.9	222.3		
381	300	12	323.9		311.1	307.1	304.8	303.2	295.3	298.5	288.9	281.0	273.1	266.7	257.2	273.1		
413	350	14	355.6	342.9	339.8	336.6	336.6	333.3	325.4	330.2	317.5	307.9	300.0	292.1	284.2			
470	400	16	406.4	393.7	390.6	387.4	387.4	381.0	373.1	381.0	363.5	354.0	344.5	333.3	325.4			
533	450	18	457.0	444.5	441.4	434.9	438.2	428.7	419.1	431.8	409.5	398.5	387.4	377.9	366.7			
584	500	20	508.0	495.3	489.0	482.6	489.0	477.8	466.8	482.6	455.6	442.9	431.8	419.1	408.0			
692	600	24	610.0	596.9	590.6	581.1	590.6	574.6	560.4	584.2	547.7	531.8	517.6	504.9	490.5			
857	750	30	762.0	746.2	736.6	730.2	743.0			736.6								
1022	900	36	914.0	898.6	889.0	882.6	882.6	876.3		889.0								