

NPS	DN	FLANGE OUTSIDE DIAMETER O	FLANGE ² THICKNESS MIN. T	RAISED FACE DIA. A	BORE			LENGTH THRU HUB ²			
					WELDING NECK & SOCKET WELD B ³	SLIP-ON & SOCKET WELD SOCKET MIN. C	LAP JOINT MIN. D	THREADED COUNTER-BORE MIN. E	WELDING NECK F	SLIP-ON, THREADED & SOCK. WELD G	LAP JOINT H
1/2	15	3.75 95	.56 14.5	1.38 34.9	.62 15.8	.88 22.2	.90 22.9	.93 23.5	2.06 52.4	.88 22	.88 22
3/4	20	4.62 117	.62 16.0	1.69 42.9	.82 20.8	1.09 27.8	1.11 28.2	1.14 29.0	2.25 57.1	1.00 25	1.00 25
1	25	4.88 124	.69 17.5	2.00 50.8	1.05 26.6	1.36 34.5	1.38 34.9	1.41 36.0	2.44 61.9	1.06 27	1.06 27
1 1/4	32	5.25 133	.75 19.5	2.50 63.5	1.38 35.1	1.70 43.3	1.72 43.7	1.75 44.5	2.56 65.1	1.06 27	1.06 27
1 1/2	40	6.12 156	.81 21.0	2.88 73.0	1.61 40.9	1.95 49.6	1.97 50.0	1.99 50.5	2.69 68.3	1.19 30	1.19 30
2	50	6.50 165	.88 22.5	3.62 92.1	2.07 52.6	2.44 61.9	2.46 62.5	2.50 63.5	2.75 69.8	1.31 33	1.31 33
2 1/2	65	7.50 191	1.00 25.5	4.12 104.8	2.47 62.7	2.94 74.6	2.97 75.4	3.00 76	3.00 76.2	1.50 38	1.50 38
3	80	8.25 210	1.12 29.0	5.00 127.0	3.07 77.9	3.57 90.7	3.60 91.4	3.63 92	3.12 79.4	1.69 43	1.69 43
3 1/2	90	9.0 229	1.19 30.5	5.50 139.7	3.55 90.1	4.07 103.4	4.10 104.1	4.13 105	3.19 81.0	1.75 44	1.75 44
4	100	10.0 254	1.25 32.0	6.19 157.2	4.03 102.3	4.57 116.1	4.60 116.8	4.63 118	3.38 85.7	1.88 48	1.88 48
5	125	11.0 279	1.38 35.0	7.31 185.7	5.05 128.2	5.66 143.7	5.69 144.5	5.69 145	3.88 98.4	2.00 51	2.00 51
6	150	12.5 318	1.44 37.0	8.50 215.9	6.07 154.1	6.72 170.7	6.75 171.4	6.75 171	3.88 98.4	2.06 52	2.06 52
8	200	15.0 381	1.62 41.5	10.62 269.9	7.98 202.7	8.72 221.5	8.75 222.2	8.75 222	4.38 111.1	2.44 62	2.44 62
10	250	17.5 445	1.88 48.0	12.75 323.8	10.02 254.5	10.88 276.2	10.92 277.4	10.88 276	4.62 117.5	2.62 67	3.75 95
12	300	20.5 520	2.00 51.0	15.00 381.0	12.00 304.8	12.88 327.0	12.92 328.2	12.94 329	5.12 130.2	2.88 73	4.00 102
14	350	23.0 585	2.12 54.0	16.25 412.8	To be specified by purchaser	14.14 359.2	14.18 360.2	14.19 360	5.62 142.9	3.00 76	4.38 111
16	400	25.5 650	2.25 57.5	18.50 469.9		16.16 410.4	16.19 411.2	16.19 411	5.75 146.0	3.25 83	4.75 121
18	450	28.0 710	2.38 60.5	21.00 533.4		18.18 461.8	18.20 462.3	18.19 462	6.25 158.7	3.50 89	5.12 130
20	500	30.5 775	2.50 63.5	23.00 584.2		20.20 513.1	20.25 514.3	20.19 513	6.38 161.9	3.75 95	5.50 140
24	600	36.0 915	2.75 70.0	27.25 692.2		24.25 615.9	24.25 615.9	24.19 614	6.62 168.3	4.19 106	6.00 152

¹ Socket Welding Flanges, sizes NPS 3 1/2 (DN 90) and larger are not covered by ASME/ANSI B16.5.

² Includes .06" (1.6 mm) raised face.

³ These dimensions correspond to inside diameters of pipe as given in ANSI/ASME B36.10M for Standard Wall Pipe. Thickness of Standard Wall is the same as Schedule 40 in size NPS 10 (DN 250) and smaller.

SOCKET WELDING



BLIND

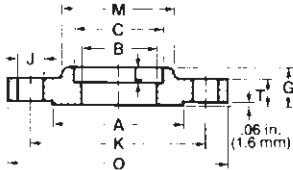


CLASS 300 (PN50) FLANGES

FORGED STEEL

ASTM A-105

1 ASME/ANSI B16.5



NPS	DN	DRILLING			DEPTH OF SOCKET L	DIAMETER OF HUB			APPROXIMATE WEIGHT			
		NO. OF HOLES	DIA. OF HOLES J	DIA. OF BOLT CIRCLE K		AT BASE M	AT CHAMFER N	LAP JOINT FILLET RADIUS r	WELDING NECK	SLIP-ON, THREADED & SOCKET WELDING ¹	BLIND	LAP JOINT
1/2		4	.62	2.62	.38	1.50	.84	.12	2	2	2	2
	15	4	16	66.7	10	38.1	21.4	3	0.9	0.9	0.9	0.9
3/4		4	.75	3.25	.44	1.88	1.05	.12	3	3	3	3
	20	4	20	82.5	11	47.6	26.6	3	1.4	1.4	1.4	1.4
1		4	.75	3.50	.50	2.12	1.32	.12	4	3	3	3
	25	4	.20	88.9	13	53.8	33.5	3	1.8	1.4	1.4	1.4
1 1/4		4	.75	3.88	.56	2.50	1.66	.19	5	4	4	4
	32	4	20	98.4	14	63.5	42.1	5	2.3	1.8	1.8	1.8
1 1/2		4	.88	4.50	.62	2.75	1.90	.25	7	6	6	6
	40	4	23	114.3	16	69.9	48.3	6	3.2	2.7	2.7	2.7
2		8	.75	5.00	.69	3.31	2.38	.31	9	7	8	7
	50	8	20	127.0	17	84.1	60.3	8	4.1	3.2	3.6	3.2
2 1/2		8	.88	5.88	.75	3.94	2.88	.31	12	10	12	10
	65	8	23	149.2	19	100.0	73.0	8	5.4	4.5	5.4	4.5
3		8	.88	6.62	.81	4.62	3.50	.38	15	13	16	13
	80	8	23	168.3	21	117.5	88.9	10	6.8	5.9	7.3	5.9
3 1/2		8	.88	7.25	-	5.25	4.00	.38	18	17	21	17
	90	8	23	184.1	-	133.3	101.6	10	8.2	7.7	9.5	7.7
4		8	.88	7.88	-	5.75	4.50	.44	25	22	27	22
	100	8	23	200.0	-	146.0	114.3	11	11.3	10.0	12.2	10.0
5		8	.88	9.25	-	7.00	5.56	.44	32	28	35	28
	125	8	23	234.9	-	177.8	141.3	11	14.5	12.7	15.9	12.7
6		12	.88	10.62	-	8.12	6.63	.50	42	39	50	39
	150	12	23	269.9	-	206.4	168.3	13	19.0	17.7	22.7	17.7
8		12	1.00	13.0	-	10.25	8.63	.50	67	58	81	58
	200	12	26	330.2	-	260.3	219.1	13	30.4	26.3	36.7	26.3
10		16	1.12	15.25	-	12.62	10.75	.50	91	81	125	91
	250	16	29	387.3	-	320.7	273.0	13	41.3	36.7	56.7	41.3
12		16	1.25	17.75	-	14.75	12.75	.50	140	115	185	140
	300	16	32	450.8	-	374.6	323.8	13	63.5	52.2	83.9	63.5
14		20	1.25	20.25	-	16.75	14.00	.50	180	165	250	190
	350	20	32	514.3	-	425.5	355.6	13	81.6	74.8	113	86.2
16		20	1.38	22.50	-	19.00	16.00	.50	250	190	295	250
	400	20	35	571.5	-	482.6	406.4	13	113	86.2	134	113
18		24	1.38	24.75	-	21.00	18.00	.50	320	250	395	295
	450	24	35	628.6	-	533.4	457.2	13	145	113	179	134
20		24	1.38	27.00	-	23.12	20.00	.50	400	315	505	370
	500	24	35	685.80	-	587.4	508.0	13	181	143	229	168
24		24	1.62	32.00	-	27.62	24.00	.50	580	475	790	550
	600	24	42	812.80	-	701.7	609.6	13	263	215	358	249

POUNDS

KILOGRAMS