

Hydraulic & Offshore SUPPLIES

Forged Flanges

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FORGED STEEL FLANGES

ANSI B 16.5

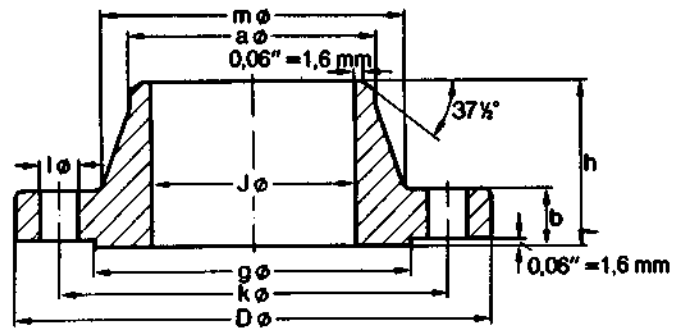
Dimension and Weights

Tolerances

Material Grades

150 lb/sq. in.

Welding Neck Flanges Vorschweißflansche



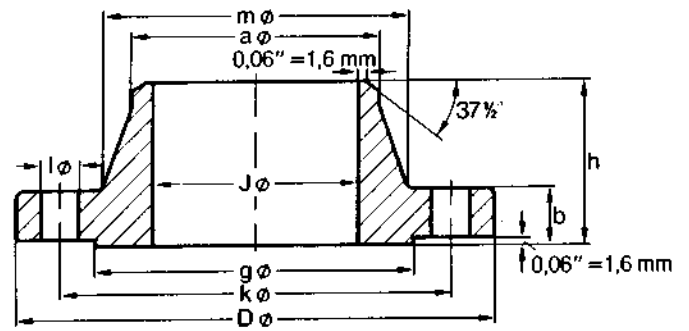
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h in. mm	a in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	Pounds Kilo
1/2"	0,84 21,3	3,50 88,9	0,62 15,7	0,44 11,2	1,88 47,8	0,84 21,3	1,19 30,2	1,38 35,1	4	0,62 15,7	2,38 60,5	1,1 0,48
3/4"	1,05 26,7	3,88 98,6	0,82 20,8	0,50 12,7	2,06 52,3	1,05 26,7	1,50 38,1	1,69 42,9	4	0,62 15,7	2,75 69,9	1,6 0,71
1"	1,315 33,4	4,25 108,0	1,05 26,7	0,56 14,2	2,19 55,6	1,32 33,5	1,94 49,3	2,00 50,8	4	0,62 15,7	3,12 79,2	2,2 1,01
1 1/4"	1,66 42,2	4,62 117,3	1,38 35,1	0,62 15,7	2,25 57,2	1,66 42,2	2,31 58,7	2,50 63,5	4	0,62 15,7	3,50 88,9	2,9 1,33
1 1/2"	1,90 48,3	5,00 127,0	1,61 40,9	0,69 17,5	2,44 62,0	1,90 48,3	2,56 65,0	2,88 73,2	4	0,62 15,7	3,88 98,6	3,8 1,72
2"	2,375 60,3	6,00 152,4	2,07 52,6	0,75 19,1	2,50 63,5	2,38 60,5	3,06 77,7	3,62 91,9	4	0,75 19,1	4,75 120,7	5,7 2,58
2 1/2"	2,875 73,0	7,00 177,8	2,47 62,7	0,88 22,4	2,75 69,9	2,88 73,2	3,56 90,4	4,12 104,6	4	0,75 19,1	5,50 139,7	9,1 4,11
3"	3,50 88,9	7,50 190,5	3,07 78,0	0,94 23,9	2,75 69,6	3,50 88,9	4,25 108,0	5,00 127,0	4	0,75 19,1	6,00 152,4	10,8 4,92
3 1/2"	4,00 101,6	8,50 215,9	3,55 90,2	0,94 23,9	2,81 71,4	4,00 101,6	4,81 122,2	5,50 139,7	8	0,75 19,1	7,00 177,8	13,4 6,08
4"	4,50 114,3	9,00 228,6	4,03 102,4	0,94 23,9	3,00 76,2	4,50 114,3	5,31 134,9	6,19 157,2	8	0,75 19,1	7,50 190,5	15,1 6,84
5"	5,563 141,3	10,00 254,0	5,05 128,3	0,94 23,9	3,50 88,9	5,56 141,2	6,44 163,6	7,31 185,7	8	0,88 22,4	8,50 215,9	18,9 8,56
6"	6,625 168,3	11,00 279,4	6,07 154,2	1,00 25,4	3,50 88,9	6,63 168,4	7,56 192,0	8,50 215,9	8	0,88 22,4	9,50 241,3	23,3 10,6
8"	8,625 219,1	13,50 342,9	7,98 202,7	1,12 28,4	4,00 101,6	8,63 219,2	9,69 246,1	10,62 269,7	8	0,88 22,4	11,75 298,5	38,8 17,6
10"	10,75 273	16,00 406,4	10,02 254,5	1,19 30,2	4,00 101,6	10,75 273,1	12,00 304,8	12,75 323,9	12	1,00 25,4	14,25 362,0	53,0 24,0
12"	12,75 323,8	19,00 482,6	12,00 304,8	1,25 31,8	4,50 114,3	12,75 323,9	14,38 365,3	15,00 381,0	12	1,00 25,4	17,00 431,8	80,4 36,5
14"	14,0 355,6	21,00 533,4		1,38 35,1	5,00 127,0	14,00 355,6	15,75 400,1	16,25 412,8	12	1,12 28,4	18,75 476,3	107 48,4
16"	16,0 406,4	23,50 596,9		1,44 36,6	5,00 127,0	16,00 406,4	18,00 457,2	18,50 469,9	16	1,12 28,4	21,25 539,8	134 60,6
18"	18,0 457,2	25,00 635,0		1,56 39,6	5,50 139,7	18,00 457,2	19,88 505,0	21,00 533,4	16	1,25 31,8	22,75 577,9	151 68,3
20"	20,0 508	27,50 698,5		1,69 42,9	5,69 144,5	20,00 508,0	22,00 558,8	23,00 584,2	20	1,25 31,8	25,00 635,0	186 84,5
24"	24,0 609,6	32,00 812,8		1,88 47,8	6,00 152,4	24,00 609,6	26,12 663,4	27,25 692,2	20	1,38 35,1	29,50 749,3	253 115

To be specified by purchaser
Vom Besteller anzugeben

300 lb/sq. in.

Welding Neck Flanges Vorschweißflansche



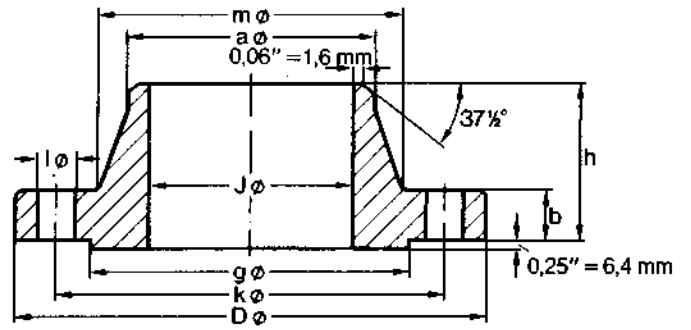
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz		Raised Face Letste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h in. mm	a in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0,84 21,3	3,75 95,2	0,62 15,7	0,56 14,2	2,06 52,3	0,84 21,3	1,50 38,1	1,38 35,0	4	0,62 15,7	2,62 66,5	1,7 0,75
3/4"	1,05 26,7	4,62 117,3	0,82 20,8	0,62 15,7	2,25 57,1	1,05 26,7	1,88 47,7	1,69 42,9	4	0,75 19,0	3,25 82,5	2,8 1,26
1"	1,315 33,4	4,88 123,9	1,05 26,7	0,69 17,5	2,44 62,0	1,32 33,5	2,12 53,8	2,00 50,8	4	0,75 19,0	3,50 88,9	3,5 1,52
1 1/4"	1,66 42,2	5,25 133,3	1,38 35,1	0,75 19,0	2,56 65,0	1,66 42,2	2,50 63,5	2,50 63,5	4	0,75 19,0	3,88 98,5	4,5 2,03
1 1/2"	1,90 48,3	6,12 155,4	1,61 40,9	0,81 20,6	2,69 68,3	1,90 48,3	2,75 69,8	2,88 73,1	4	0,88 22,3	4,50 114,3	6,4 2,89
2"	2,375 60,3	6,50 165,1	2,07 52,6	0,88 22,3	2,75 69,8	2,38 60,4	3,31 84,0	3,62 91,9	8	0,75 19,0	5,00 127,0	7,5 3,40
2 1/2"	2,875 73,0	7,50 190,5	2,47 62,7	1,00 25,4	3,00 76,2	2,88 73,1	3,94 100,0	4,12 104,6	8	0,88 22,3	5,88 149,3	11,4 5,17
3"	3,50 88,9	8,25 209,5	3,07 78,0	1,12 28,4	3,12 79,2	3,50 88,9	4,62 117,3	5,00 127,0	8	0,88 22,3	6,62 168,1	15,3 6,93
3 1/2"	4,00 101,6	9,00 228,6	3,55 90,2	1,19 30,2	3,19 81,0	4,00 101,6	5,25 133,3	5,50 139,7	8	0,88 22,3	7,25 184,1	19,1 8,67
4"	4,50 114,3	10,00 254,0	4,03 102,4	1,25 31,7	3,38 85,8	4,50 114,3	5,75 146,0	6,19 157,2	8	0,88 22,3	7,88 200,1	24,7 11,2
5"	5,563 141,3	11,00 279,4	5,05 128,3	1,38 35,0	3,88 98,5	5,56 141,2	7,00 177,8	7,31 185,6	8	0,88 22,3	9,25 234,9	33,3 15,1
6"	6,625 168,3	12,50 317,5	6,07 154,2	1,44 36,5	3,88 98,5	6,63 168,4	8,12 206,2	8,50 215,9	12	0,88 22,3	10,62 269,7	42,4 19,1
8"	8,625 219,1	15,00 381,0	7,98 202,7	1,62 41,1	4,38 111,2	8,63 219,2	10,25 260,3	10,62 269,7	12	1,00 25,4	13,00 330,2	65,9 29,9
10"	10,75 273	17,50 444,5	10,02 254,5	1,88 47,7	4,62 117,3	10,75 273	12,62 320,5	12,75 323,8	16	1,12 28,4	15,25 387,3	94,1 42,7
12"	12,75 323,8	20,50 520,7	12,00 304,8	2,00 50,8	5,12 130,0	12,75 323,8	14,75 374,6	15,00 381,0	16	1,25 31,7	17,75 450,8	136 61,8
14"	14,00 355,6	23,00 584,2		2,12 53,8	5,62 142,7	14,00 355,6	16,75 425,4	16,25 412,7	20	1,25 31,7	20,25 514,3	189 85,8
16"	16,00 406,4	25,50 647,7		2,25 57,1	5,75 146,0	16,00 406,4	19,00 482,6	18,50 469,9	20	1,38 35,0	22,50 571,5	234 106
18"	18,00 457,2	28,00 711,2		2,38 60,4	6,25 158,7	18,00 457,2	21,00 533,4	21,00 533,4	24	1,38 35,0	24,75 628,6	289 131
20"	20,00 508	30,50 774,7		2,50 63,5	6,38 162,0	20,00 508	23,12 587,2	23,00 584,2	24	1,38 35,0	27,00 685,8	348 158
24"	24,00 609,6	36,00 914,4		2,75 69,8	6,62 168,1	24,00 609,6	27,62 701,5	27,25 692,1	24	1,62 41,1	32,00 812,8	507 230

To be specified by purchaser vom Besteller anzugeben

600 lb/sq. in.

Welding Neck Flanges Vorschweißflansche



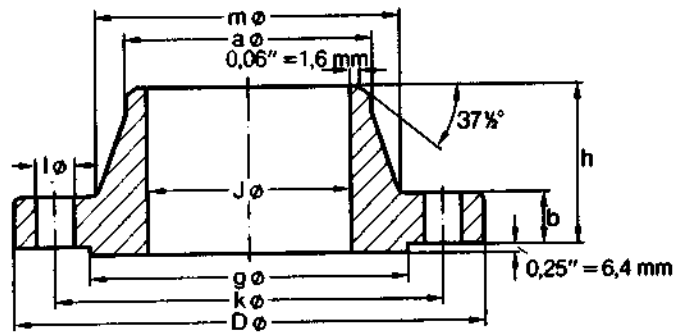
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
Nom. Size DN	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	a in. mm	m in. mm	g in. mm	Num- ber Anzahl	l in. mm	k in. mm	
1/2"	0.84	3.75		0.56	2.06	0.84	1.50	1.38	4	0.62	2.62	1.9
	21.3	95.3		14.2	52.3	21.3	38.1	35.1		15.7	66.5	0.87
3/4"	1.05	4.62		0.62	2.25	1.05	1.88	1.69	4	0.75	3.25	3.2
	26.7	117.3		15.7	57.2	26.7	47.8	42.9		19.1	82.6	1.45
1"	1.315	4.88		0.69	2.44	1.32	2.12	2.00	4	0.75	3.50	3.9
	33.4	124.0		17.5	62.0	33.5	53.8	50.8		19.1	88.9	1.76
1 1/4"	1.66	5.25		0.81	2.62	1.66	2.50	2.50	4	0.75	3.88	5.5
	42.2	133.4		20.6	66.5	42.2	63.5	63.5		19.1	98.6	2.49
1 1/2"	1.90	6.12		0.88	2.75	1.90	2.75	2.88	4	0.88	4.50	7.7
	48.3	155.4		22.4	69.9	48.3	69.9	73.2		22.4	114.3	3.49
2"	2.375	6.50		1.00	2.88	2.38	3.31	3.62	8	0.75	5.00	9.6
	60.3	165.1		25.4	73.2	60.5	84.1	91.9		19.1	127.0	4.36
2 1/2"	2.875	7.50		1.12	3.12	2.88	3.94	4.12	8	0.88	5.88	14.2
	73.0	190.5		28.4	79.2	73.2	100.1	104.6		22.4	149.4	6.43
3"	3.50	8.25		1.25	3.25	3.50	4.62	5.00	8	0.88	6.62	18.8
	88.9	209.6		31.8	82.6	88.9	117.3	127.0		22.4	168.1	8.53
3 1/2"	4.00	9.00		1.38	3.38	4.00	5.25	5.50	8	1.00	7.25	23.6
	101.6	228.6		35.1	85.9	101.6	133.4	139.7		25.4	184.2	10.7
4"	4.50	10.75		1.50	4.00	4.50	6.00	6.19	8	1.00	8.50	38.3
	114.3	273.1		38.1	101.6	114.3	152.4	157.2		25.4	215.9	17.4
5"	5.563	13.00		1.75	4.50	5.56	7.44	7.31	8	1.12	10.50	64.3
	141.3	330.2		44.5	114.3	141.2	189.0	185.7		28.4	266.7	29.2
6"	6.625	14.00		1.88	4.62	6.63	8.75	8.50	12	1.12	11.50	76.9
	168.3	355.6		47.8	117.3	168.4	222.3	215.9		28.4	292.1	34.9
8"	8.625	16.50		2.19	5.25	8.63	10.75	10.62	12	1.25	13.75	119
	219.1	419.1		55.6	133.4	219.2	273.1	269.7		31.8	349.3	53.9
10"	10.75	20.00		2.50	6.00	10.75	13.50	12.75	16	1.38	17.00	191
	273	508.0		63.5	152.4	273.1	342.9	323.9		35.1	431.8	86.5
12"	12.75	22.00		2.62	6.12	12.75	15.75	15.00	20	1.38	19.25	227
	323.8	558.8		66.5	155.4	323.9	400.1	381.0		35.1	489.0	103
14"	14.0	23.75		2.75	6.50	14.00	17.00	16.25	20	1.50	20.75	269
	355.6	603.3		69.9	165.1	355.6	431.8	412.8		38.1	527.1	122
16"	16.0	27.00		3.00	7.00	16.00	19.50	18.50	20	1.62	23.75	374
	406.4	685.8		76.2	177.8	406.4	495.3	469.9		41.1	603.3	170
18"	18.0	29.25		3.25	7.25	18.00	21.50	21.00	20	1.75	25.75	449
	457.2	743.0		82.6	184.2	457.2	546.1	533.4		44.5	654.1	204
20"	20.0	32.00		3.50	7.50	20.00	24.00	23.00	24	1.75	28.50	560
	508	812.8		88.9	190.5	508.0	609.6	584.2		44.5	723.9	254
24"	24.0	37.00		4.00	8.00	24.00	28.25	27.25	24	2.00	33.00	789
	609.6	939.8		101.6	203.2	609.6	717.6	692.2		50.8	838.2	358

To be specified by purchaser
Vom Besteller anzugeben

900 lb/sq. in.

Welding Neck Flanges
Vorschweißflansche



ANSI B 16.5

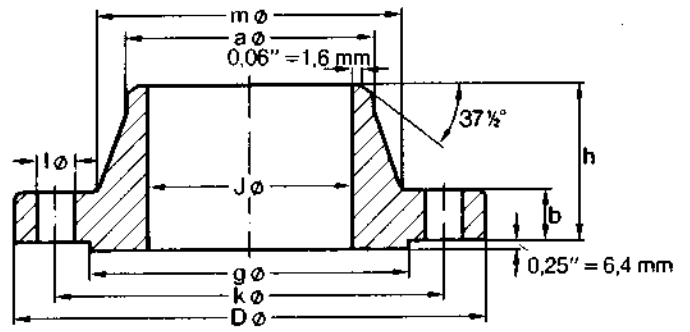
Pipe Rohr		Flange Flansch				Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	a in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3											
3/4"	1.05 26.7											
1"	1.315 33.4											
1 1/4"	1.66 42.2											
1 1/2"	1.90 48.3											
2"	2.375 60.3											
2 1/2"	2.875 73.0											
3"	3.50 88.9	9.50 241.3		1.50 38.1	4.00 101.6	3.50 88.9	5.00 127.0	5.00 127.0	8	1.00 25.4	7.50 190.5	30.2 13.7
4"	4.50 114.3	11.50 292.1		1.75 44.4	4.50 114.3	4.50 114.3	6.25 158.7	6.19 157.2	8	1.25 31.7	9.25 234.9	49.6 22.5
5"	5.563 141.3	13.75 349.2		2.00 50.8	5.00 127.0	5.56 141.2	7.50 190.5	7.31 185.6	8	1.38 35.0	11.00 279.4	82.4 37.4
6"	6.625 168.3	15.00 381.0		2.19 55.6	5.50 139.7	6.63 168.4	9.25 234.9	8.50 215.9	12	1.25 31.7	12.50 317.5	105 47.7
8"	8.625 219.1	18.50 469.9		2.50 63.5	6.38 162.0	8.63 219.2	11.75 298.4	10.62 269.7	12	1.50 38.1	15.50 393.7	179 81.3
10"	10.75 273	21.50 546.1		2.75 69.8	7.25 184.1	10.75 273	14.50 368.3	12.75 323.8	16	1.50 38.1	18.50 469.9	262 119
12"	12.75 323.8	24.00 609.6		3.12 79.2	7.88 200.1	12.75 323.8	16.50 419.1	15.00 381.0	20	1.50 38.1	21.00 533.4	346 157
14"	14.0 355.6	25.25 641.3		3.38 85.8	8.38 212.8	14.00 355.6	17.75 450.8	16.25 412.7	20	1.62 41.1	22.00 558.8	379 180
16"	16.0 406.4	27.75 704.8		3.50 88.9	8.50 215.9	16.00 406.4	20.00 508.0	18.50 469.9	20	1.75 44.4	24.25 615.9	478 217
18"	18.0 457.2	31.00 787.4		4.00 101.6	9.00 228.6	18.00 457.2	22.25 565.1	21.00 533.4	20	2.00 50.8	27.00 685.8	643 292
20"	20.0 508	33.75 857.2		4.25 107.9	9.75 247.6	20.00 508	24.50 622.3	23.00 584.2	20	2.12 53.8	29.50 749.3	797 362
24"	24.0 609.6	41.00 1041.4		5.50 139.7	11.50 292.1	24.00 609.6	29.50 749.3	27.25 692.1	20	2.62 66.5	35.50 901.7	1465 665

Use 1500 lb dimensions for these sizes
Für diesen Bereich gelten 1500-lb-Abmessungen

To be specified by purchaser
Vom Besteller anzugeben

1500 lb/sq. in.

**Welding Neck Flanges
Vorschweißflansche**



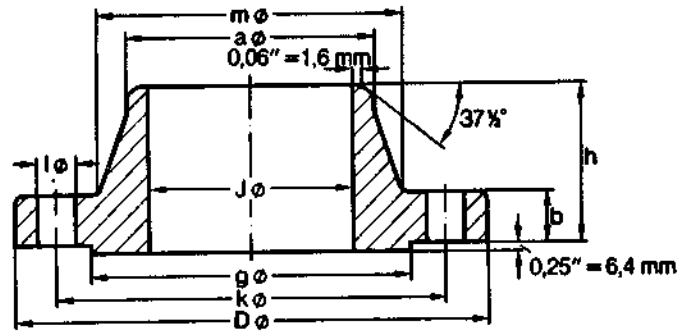
ANSI B 16.5

Pipe Rohr		Flange Flansch			Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht	
Nom. Size DN	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	a in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	= Pounds Kilo
1/2"	0.84 21.3	4.75 120.6		0.88 22.3	2.38 60.4	0.84 21.3	1.50 38.1	1.38 35.0	4	0.88 22.3	3.25 82.5	4.1 1.87
3/4"	1.05 26.7	5.12 130.0		1.00 25.4	2.75 69.8	1.05 26.7	1.75 44.4	1.69 42.9	4	0.88 22.3	3.50 88.9	5.6 2.56
1"	1.32 33.4	5.88 149.3		1.12 28.4	2.88 73.1	1.32 33.4	2.06 52.3	2.00 50.8	4	1.00 25.4	4.00 101.6	8.2 3.74
1 1/4"	1.66 42.2	6.25 158.7		1.12 28.4	2.88 73.1	1.66 42.2	2.50 63.5	2.50 63.5	4	1.00 25.4	4.38 111.2	9.5 4.33
1 1/2"	1.90 48.3	7.00 177.8		1.25 31.7	3.25 82.5	1.90 48.3	2.75 69.8	2.88 73.1	4	1.12 28.4	4.88 123.9	13.1 5.94
2"	2.38 60.3	8.50 215.9		1.50 38.1	4.00 101.6	2.38 60.3	4.12 104.6	3.62 91.9	8	1.00 25.4	6.50 165.1	23.8 10.8
2 1/2"	2.88 73.0	9.62 244.3		1.62 41.1	4.12 104.6	2.88 73.0	4.88 123.9	4.12 104.6	8	1.12 28.4	7.50 190.5	33.0 15.0
3"	3.50 88.9	10.50 266.7		1.88 47.7	4.62 117.3	3.50 88.9	5.25 133.3	5.00 127.0	8	1.25 31.7	8.00 203.2	43.8 19.9
4"	4.50 114	12.25 311.1		2.12 53.8	4.88 123.9	4.50 114	6.38 162.0	6.19 157.2	8	1.38 35.0	9.50 241.3	65.9 29.9
5"	5.563 141.3	14.75 374.6		2.88 73.1	6.12 155.4	5.56 141.2	7.75 196.8	7.31 185.6	8	1.62 41.1	11.50 292.1	122 55.4
6"	6.625 168.3	15.50 393.7		3.25 82.5	6.75 171.4	6.63 168.4	9.00 228.6	8.50 215.9	12	1.50 38.1	12.50 317.5	151 68.4
8"	8.625 219.1	19.00 482.6		3.62 91.9	8.38 212.8	8.63 219.2	11.50 292.1	10.62 269.7	12	1.75 44.4	15.50 393.7	258 117
10"	10.75 273	23.00 584.2		4.25 107.9	10.00 254.0	10.75 273	14.50 368.3	12.75 323.8	12	2.00 50.8	19.00 482.6	427 194
12"	12.75 323.8	26.50 673.1		4.88 123.9	11.12 282.4	12.75 323.8	17.75 450.8	15.00 381.0	16	2.12 53.8	22.50 571.5	634 288
14"	14.0 355.6	29.50 749.3		5.25 133.3	11.75 298.4	14.00 355.6	19.50 495.3	16.25 412.7	16	2.38 60.4	25.00 635.0	837 380
16"	16.0 406.4	32.50 825.5		5.75 146.0	12.25 311.1	16.00 406.4	21.75 552.4	18.50 469.9	16	2.62 66.5	27.75 704.8	1068 485
18"	18.0 457.2	36.00 914.4		6.38 162.0	12.88 327.1	18.00 457.2	23.50 596.9	21.00 533.4	16	2.88 73.1	30.50 774.7	1419 644
20"	20.0 508	38.75 984.2		7.00 177.8	14.00 355.6	20.00 508	25.25 641.3	23.00 584.2	16	3.12 79.2	32.75 831.8	1707 775
24"	24.0 609.6	46.00 1168.4		8.00 203.2	16.00 406.4	24.00 609.6	30.00 762.0	27.25 692.1	16	3.62 91.9	39.00 990.6	2714 1232

To be specified by purchaser
Vom Besteller anzugeben

2500 lb/sq. in.

Welding Neck Flanges
Vorschweißflansche



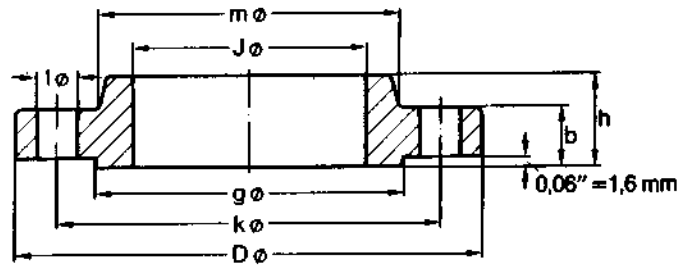
ANSI B 16.5

Pipe Rohr	Flange Flansch					Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	a in. mm	m in. mm		g in. mm	Number Anzahl	l in. mm	
1/2"	0,84 21,3	5,25 133,4		1,19 30,2	2,88 73,2	0,84 21,3	1,69 42,9	1,38 35,1	4	0,88 22,4	3,50 88,5	6,9 3,12
3/4"	1,05 26,7	5,50 139,7		1,25 31,8	3,12 79,2	1,05 26,7	2,00 50,8	1,69 42,9	4	0,88 22,4	3,75 95,3	8,1 3,70
1"	1,315 33,4	6,25 158,8		1,38 35,1	3,50 88,9	1,32 33,5	2,25 57,2	2,00 50,8	4	1,00 25,4	4,25 108,0	11,5 5,24
1 1/4"	1,66 42,2	7,25 184,2		1,50 38,1	3,75 95,3	1,66 42,2	2,88 73,2	2,50 63,5	4	1,12 28,4	5,12 130,0	17,0 7,74
1 1/2"	1,90 48,3	8,00 203,2	To be specified by purchaser Vom Besteller anzugeben	1,75 44,5	4,38 111,3	1,90 48,3	3,12 79,2	2,88 73,2	4	1,25 31,8	5,75 146,1	24,0 10,9
2"	2,375 60,3	9,25 235,0		2,00 50,8	5,00 127,0	2,38 60,5	3,75 95,3	3,62 91,9	8	1,12 28,4	6,75 171,5	35,7 16,2
2 1/2"	2,875 73,0	10,50 266,7		2,25 57,2	5,62 142,7	2,88 73,2	4,50 114,3	4,12 104,6	8	1,25 31,8	7,75 196,9	52,2 23,7
3"	3,50 88,9	12,00 304,8		2,62 66,5	6,62 168,1	3,50 88,9	5,25 133,4	5,00 127,0	8	1,38 35,1	9,00 228,6	79,7 36,2
4"	4,50 114,3	14,00 355,6		3,00 76,2	7,50 190,5	4,50 114,3	6,50 165,1	6,19 157,2	8	1,62 41,1	10,75 273,1	122 55,3
5"	5,563 141,3	16,50 419,1		3,62 91,9	9,00 228,6	5,56 141,2	8,00 203,2	7,31 185,7	8	1,88 47,8	12,75 323,9	204 92,5
6"	6,625 168,3	19,00 482,6		4,25 108,0	10,75 273,1	6,63 168,4	9,25 235,0	8,50 215,9	8	2,12 53,8	14,50 368,3	315 143
8"	8,625 219,1	21,75 552,5		5,00 127,0	12,50 317,5	8,63 219,2	12,00 304,8	10,62 269,7	12	2,12 53,8	17,25 438,2	474 215
10"	10,75 273	26,50 673,1		6,50 165,1	16,50 419,1	10,75 273,1	14,75 374,7	12,75 323,9	12	2,62 66,5	21,25 539,8	894 406
12"	12,75 323,8	30,00 762,0		7,25 184,2	18,25 463,6	12,75 323,9	17,38 441,5	15,00 381,0	12	2,88 73,2	24,38 619,3	1260 572

150 lb/sq. in.

Slip-on Flanges

Überschiebflansche



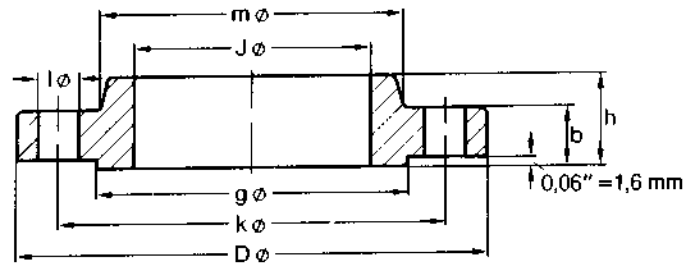
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3	3.50 88.9	0.88 22.4	0.44 11.2	0.62 15.7	1.19 30.2	1.38 35.1	4	0.62 15.7	2.38 60.5	0.9 0.39
3/4"	1.05 26.7	3.88 98.6	1.09 27.7	0.50 12.7	0.62 15.7	1.50 38.1	1.69 42.9	4	0.62 15.7	2.75 69.9	1.2 0.56
1"	1.315 33.4	4.25 108.0	1.36 34.5	0.56 14.2	0.69 17.5	1.94 49.3	2.00 50.8	4	0.62 15.7	3.12 79.2	1.7 0.78
1 1/4"	1.66 42.2	4.62 117.3	1.70 43.2	0.62 15.7	0.81 20.6	2.31 58.7	2.50 63.5	4	0.62 15.7	3.50 88.9	2.3 1.03
1 1/2"	1.90 48.3	5.00 127.0	1.95 49.5	0.69 17.5	0.88 22.4	2.56 65.0	2.88 73.2	4	0.62 15.7	3.88 98.6	2.9 1.32
2"	2.375 60.3	6.00 152.4	2.44 62.0	0.75 19.1	1.00 25.4	3.06 77.7	3.62 91.9	4	0.75 19.1	4.75 120.7	4.5 2.06
2 1/2"	2.875 73.0	7.00 177.8	2.94 74.7	0.88 22.4	1.12 28.4	3.56 90.4	4.12 104.6	4	0.75 19.1	5.50 139.7	7.2 3.28
3"	3.50 88.9	7.50 190.5	3.57 90.7	0.94 23.9	1.19 30.2	4.25 108.0	5.00 127.0	4	0.75 19.1	6.00 152.4	8.5 3.85
3 1/2"	4.00 101.6	8.50 215.9	4.07 103.4	0.94 23.9	1.25 31.8	4.81 122.2	5.50 139.7	8	0.75 19.1	7.00 177.8	10.6 4.81
4"	4.50 114.3	9.00 228.6	4.57 116.1	0.94 23.9	1.31 33.3	5.31 134.9	6.19 157.2	8	0.75 19.1	7.50 190.5	11.7 5.30
5"	5.563 141.3	10.00 254.0	5.66 143.8	0.94 23.9	1.44 36.6	6.44 163.6	7.31 185.7	8	0.88 22.4	8.50 215.9	13.4 6.07
6"	6.625 168.3	11.00 279.4	6.72 170.7	1.00 25.4	1.56 39.6	7.56 192.0	8.50 215.9	8	0.88 22.4	9.50 241.3	16.4 7.45
8"	8.625 219.1	13.50 342.9	8.72 221.5	1.12 28.4	1.75 44.5	9.69 246.1	10.62 269.7	8	0.88 22.4	11.75 298.5	26.7 12.1
10"	10.75 273	16.00 406.4	10.88 276.4	1.19 30.2	1.94 49.3	12.00 304.8	12.75 323.9	12	1.00 25.4	14.25 362.0	36.3 16.5
12"	12.75 323.8	19.00 482.6	12.88 327.2	1.25 31.8	2.19 55.6	14.38 365.3	15.00 381.0	12	1.00 25.4	17.00 431.8	57.7 26.2
14"	14.0 355.6	21.00 533.4	14.14 359.2	1.38 35.1	2.25 57.2	15.75 400.1	16.25 412.8	12	1.12 28.4	18.75 476.3	76.2 34.6
16"	16.0 406.4	23.50 596.9	16.16 410.5	1.44 36.6	2.50 63.5	18.00 457.2	18.50 469.9	16	1.12 28.4	21.25 539.8	98.7 44.8
18"	18.0 457.2	25.00 635.0	18.18 461.8	1.56 39.6	2.69 68.3	19.88 505.0	21.00 533.4	16	1.25 31.8	22.75 577.9	108 48.9
20"	20.0 508	27.50 698.5	20.20 513.1	1.69 42.9	2.88 73.2	22.00 558.8	23.00 584.2	20	1.25 31.8	25.00 635.0	136 61.9
24"	24.0 609.6	32.00 812.8	24.25 616.0	1.88 47.8	3.25 82.6	26.12 663.4	27.25 692.2	20	1.38 35.1	29.50 749.3	191 86.9

300 lb/sq. in.

Slip-on Flanges

Überschiebflansche



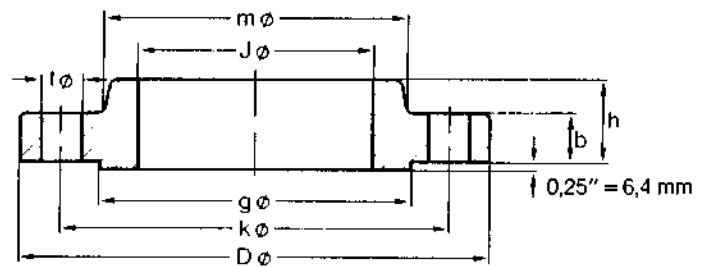
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Num- ber Anzahl	l in. mm	k in. mm	
1/2"	0.84 21.3	3.75 95.2	0.88 22.3	0.56 14.2	0.88 22.3	1.50 38.1	1.38 35.0	4	0.62 15.7	2.62 66.5	1.4 0.64
3/4"	1.05 26.7	4.62 117.3	1.09 27.7	0.62 15.7	1.00 25.4	1.88 47.7	1.69 42.9	4	0.75 19.0	3.25 82.5	2.5 1.12
1"	1.315 33.4	4.88 123.9	1.36 34.5	0.69 17.5	1.06 26.9	2.12 53.8	2.00 50.8	4	0.75 19.0	3.50 88.9	3.0 1.36
1 1/4"	1.66 42.2	5.25 133.3	1.70 43.2	0.75 19.0	1.06 26.9	2.50 63.5	2.50 63.5	4	0.75 19.0	3.88 98.5	3.7 1.68
1 1/2"	1.90 48.3	6.12 155.4	1.95 49.5	0.81 20.6	1.19 30.2	2.75 69.8	2.88 73.1	4	0.88 22.3	4.50 114.3	5.5 2.49
2"	2.375 60.3	6.50 165.1	2.44 62.0	0.88 22.3	1.31 33.2	3.31 84.0	3.62 91.9	8	0.75 19.0	5.00 127.0	6.3 2.87
2 1/2"	2.875 73.0	7.50 190.5	2.94 74.7	1.00 25.4	1.50 38.1	3.94 100.0	4.12 104.6	8	0.88 22.3	5.88 149.3	9.5 4.32
3"	3.50 88.9	8.25 209.5	3.57 90.7	1.12 28.4	1.69 42.9	4.62 117.3	5.00 127.0	8	0.88 22.3	6.62 168.1	12.9 5.85
3 1/2"	4.00 101.6	9.00 228.6	4.07 103.4	1.19 30.2	1.75 44.4	5.25 133.3	5.50 139.7	8	0.88 22.3	7.25 184.1	16.2 7.34
4"	4.50 114.3	10.00 254.0	4.57 116.1	1.25 31.7	1.88 47.7	5.75 146.0	6.19 157.2	8	0.88 22.3	7.88 200.1	21.2 9.61
5"	5.563 141.3	11.00 279.4	5.66 143.8	1.38 35.0	2.00 50.8	7.00 177.8	7.31 185.6	8	0.88 22.3	9.25 234.9	27.1 12.3
6"	6.625 168.3	12.50 317.5	6.72 170.7	1.44 36.5	2.06 52.3	8.12 206.2	8.50 251.9	12	0.88 22.3	10.62 269.7	34.4 15.6
8"	8.625 219.1	15.00 381.0	8.72 221.5	1.62 41.1	2.44 61.9	10.25 260.3	10.62 269.7	12	1.00 25.4	13.00 330.2	53.3 24.2
10"	10.75 273	17.50 444.5	10.88 276.3	1.88 47.7	2.62 66.5	12.62 320.5	12.75 323.8	16	1.12 28.4	15.25 387.3	75.1 34.1
12"	12.75 323.8	20.50 520.7	12.88 327.1	2.00 50.8	2.88 73.1	14.75 374.6	15.00 381.0	16	1.25 31.7	17.75 450.8	110 49.8
14"	14.0 355.6	23.00 584.2	14.14 359.1	2.12 53.8	3.00 76.2	16.75 425.4	16.25 412.7	20	1.25 31.7	20.25 514.3	154 69.9
16"	16.0 406.4	25.50 647.7	16.16 410.5	2.25 57.1	3.25 82.5	19.00 482.6	18.50 469.9	20	1.38 35.0	22.50 571.5	194 88.1
18"	18.0 457.2	28.00 711.2	18.18 461.8	2.38 60.4	3.50 88.9	21.00 533.4	21.00 533.4	24	1.38 35.0	24.75 628.6	240 109
20"	20.0 508	30.50 774.7	20.20 513.1	2.50 63.5	3.75 95.2	23.12 587.2	23.00 584.2	24	1.38 35.0	27.00 685.8	295 134
24"	24.0 609.6	36.00 914.4	24.25 615.9	2.75 69.8	4.19 106.1	27.62 701.5	27.25 692.1	24	1.38 41.1	32.00 812.8	443 201

600 lb/sq. in.

Slip-on Flanges

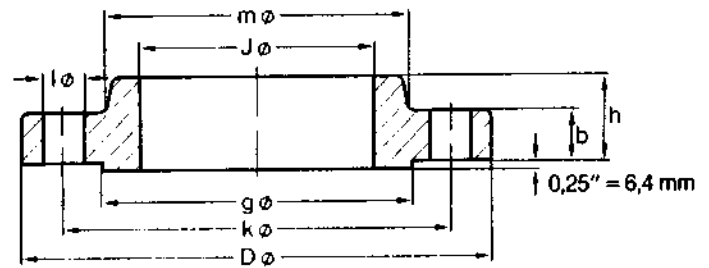
Überschiebflansche



ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3	3.75 95.3	0.88 22.4	0.56 14.2	0.88 22.4	1.50 38.1	1.38 35.1	4	0.62 15.7	2.62 66.5	1.6 0.74
3/4"	1.05 26.7	4.62 117.3	1.09 27.7	0.62 15.7	1.00 25.4	1.88 47.8	1.69 42.9	4	0.75 19.1	3.25 82.6	2.8 1.27
1"	1.315 33.4	4.88 124.0	1.36 34.5	0.69 17.5	1.06 26.9	2.12 53.8	2.00 50.8	4	0.75 19.1	3.50 88.9	3.3 1.52
1 1/4"	1.66 42.2	5.25 133.4	1.70 43.2	0.81 20.6	1.12 28.4	2.50 63.5	2.50 63.5	4	0.75 19.1	3.88 98.6	4.5 2.03
1 1/2"	1.90 48.3	6.12 155.4	1.95 49.5	0.88 22.4	1.25 31.8	2.75 69.9	2.88 73.2	4	0.88 22.4	4.50 114.3	6.5 2.96
2"	2.375 60.3	6.50 165.1	2.44 62.0	1.00 25.4	1.44 36.6	3.31 84.1	3.62 91.9	8	0.75 19.1	5.00 127.0	8.0 3.62
2 1/2"	2.875 73.0	7.50 190.5	2.94 74.7	1.12 28.4	1.62 41.1	3.94 100.1	4.12 104.6	8	0.88 22.4	5.88 149.4	11.6 5.28
3"	3.50 88.9	8.25 209.6	3.57 90.7	1.25 31.8	1.81 46.0	4.62 117.3	5.00 127.0	8	0.88 22.4	6.62 168.1	15.4 7.00
3 1/2"	4.00 101.6	9.00 228.6	4.07 103.4	1.38 35.1	1.94 49.3	5.25 133.4	5.50 139.7	8	1.00 25.4	7.25 184.2	19.5 8.84
4"	4.50 114.3	10.75 273.1	4.57 116.1	1.50 38.1	2.12 53.8	6.00 152.4	6.19 157.2	8	1.00 25.4	8.50 215.9	31.9 14.5
5"	5.563 141.3	13.00 330.2	5.66 143.8	1.75 44.5	2.38 60.5	7.44 189.0	7.31 185.7	8	1.12 28.4	10.50 266.7	53.7 24.4
6"	6.625 168.3	14.00 355.6	6.72 170.7	1.88 47.8	2.62 66.5	8.75 222.3	8.50 215.9	12	1.12 28.4	11.50 292.1	63.2 28.7
8"	8.625 219.1	16.50 419.1	8.72 221.5	2.19 55.6	3.00 76.2	10.75 273.1	10.62 269.7	12	1.25 31.8	13.75 349.3	95.6 43.4
10"	10.75 273	20.00 508.0	10.88 276.4	2.50 63.5	3.38 85.9	13.50 342.9	12.75 323.9	16	1.38 35.1	17.00 431.8	155 70.3
12"	12.75 323.8	22.00 558.8	12.88 327.2	2.62 66.5	3.62 91.9	15.75 400.1	15.00 381.0	20	1.38 35.1	19.25 489.0	186 84.2
14"	14.0 355.6	23.75 603.3	14.14 359.2	2.75 69.9	3.69 93.7	17.00 431.8	16.25 412.8	20	1.50 38.1	20.75 527.1	217 98.7
16"	16.0 406.4	27.00 685.8	16.16 410.5	3.00 76.2	4.19 106.4	19.50 495.3	18.50 469.9	20	1.62 41.1	23.75 603.3	313 142
18"	18.0 457.2	29.25 743.0	18.18 461.8	3.25 82.6	4.62 117.3	21.50 546.1	21.00 533.4	20	1.75 44.5	25.75 654.1	381 173
20"	20.0 508	32.00 812.8	20.20 513.1	3.50 88.9	5.00 127.0	24.00 609.6	23.00 584.2	24	1.75 44.5	28.50 723.9	485 220
24"	24.0 609.6	37.00 939.8	24.25 616.0	4.00 101.6	5.50 139.7	28.25 717.6	27.25 692.2	24	2.00 50.8	33.00 838.2	687 312

900 lb/sq. in.
Slip-on Flanges
Überschiebflansche



ANSI B 16.5

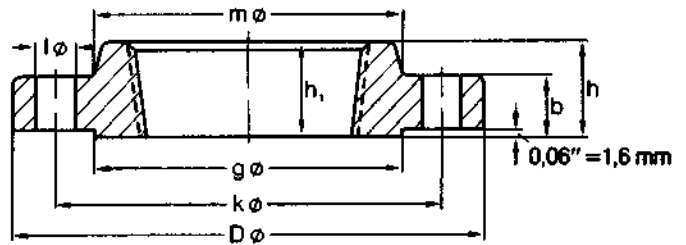
Pipe Rohr		Flange Flansch				Hub, Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Num- ber Anzahl	l in. mm	k in. mm	~ Pounds Kilo
1/2"	0.84 21.3										
3/4"	1.05 26.7										
1"	1.315 33.4										
1 1/4"	1.66 42.2										
1 1/2"	1.90 48.3										
2"	2.375 60.3										
2 1/2"	2.875 73.0										
3"	3.50 88.9	9.50 241.3	3.57 90.7	1.50 38.1	2.12 53.8	5.00 127.0	5.00 127.0	8	1.00 25.4	7.50 190.5	25.6 11.6
4"	4.00 114.3	11.50 292.1	4.57 116.1	1.75 44.4	2.75 69.8	6.25 158.7	6.19 157.2	8	1.25 31.7	9.25 234.9	43.4 19.7
5"	5.563 141.3	13.75 349.2	5.66 143.8	2.00 50.8	3.12 79.2	7.50 190.5	7.31 185.6	8	1.38 35.0	11.00 279.4	70.3 31.9
6"	6.625 168.3	15.00 381.0	6.72 170.7	2.19 55.6	3.38 85.8	9.25 234.9	8.50 215.9	12	1.25 31.7	12.50 317.5	90.5 41.1
8"	8.625 219.1	18.50 469.9	8.72 221.5	2.50 63.5	4.00 101.6	11.75 298.4	10.62 269.7	12	1.50 38.1	15.50 393.7	156 70.7
10"	10.75 273	21.50 546.1	10.88 276.3	2.75 69.8	4.25 107.9	14.50 368.3	12.75 323.8	16	1.50 38.1	18.50 469.9	223 101
12"	12.75 323.8	24.00 609.6	12.88 327.1	3.12 79.2	4.62 117.3	16.50 419.1	15.00 381.0	20	1.50 38.1	21.00 533.4	293 133
14"	14.0 355.6	25.25 641.3	14.14 359.1	3.38 85.8	5.12 130.0	17.75 450.8	16.25 412.7	20	1.62 41.1	22.00 558.8	337 153
16"	16.0 406.4	27.75 704.8	16.16 410.5	3.50 88.9	5.25 133.3	20.00 508.0	18.50 469.9	20	1.75 44.4	24.25 615.9	408 185
18"	18.0 457.2	31.00 787.4	18.18 461.8	4.00 101.6	6.00 152.4	22.25 565.1	21.00 533.4	20	2.00 50.8	27.00 685.8	568 258
20"	20.0 508	33.75 857.2	20.20 513.1	4.25 107.9	6.25 158.7	24.50 622.3	23.00 584.2	20	2.12 53.8	29.50 749.3	698 317
24"	24.0 609.6	41.00 1041.4	24.25 615.9	5.50 139.7	8.00 203.2	29.50 749.3	27.25 692.1	20	2.62 66.5	35.50 901.7	1335 606

Use 1500 lb dimensions for these sizes
Für diesen Bereich gelten 1500-lb-Abmessungen

150 lb/sq. in.

Threaded Flanges

Gewindeflansche



Thread type: Standard taper pipe thread to ANSI B 2.1
 Gewindeart: Standard-Rohrgewinde (NPT) nach ANSI B 2.1

ANSI B 16.5

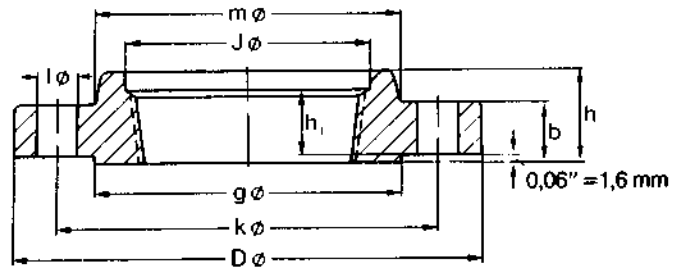
Pipe Rohr		Flange Flansch				Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h/h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3	3.50 88.9		0.44 11.2	0.62 15.7	1.19 30.2	1.38 35.1	4	0.62 15.7	2.38 60.5	0.9 0.39
3/4"	1.05 26.7	3.88 98.6		0.50 12.7	0.62 15.7	1.50 38.1	1.69 42.9	4	0.62 15.7	2.75 69.9	1.2 0.56
1"	1.315 33.4	4.25 108.0		0.56 14.2	0.69 17.5	1.94 49.3	2.00 50.8	4	0.62 15.7	3.12 79.2	1.7 0.78
1 1/4"	1.66 42.2	4.62 117.3		0.62 15.7	0.81 20.6	2.31 58.7	2.50 63.5	4	0.62 15.7	3.50 88.9	2.3 1.03
1 1/2"	1.90 48.3	5.00 127.0		0.69 17.5	0.88 22.4	2.56 65.0	2.88 73.2	4	0.62 15.7	3.88 98.6	2.9 1.32
2"	2.375 60.3	6.00 152.4		0.75 19.1	1.00 25.4	3.06 77.7	3.62 91.9	4	0.75 19.1	4.75 120.7	4.5 2.06
2 1/2"	2.875 73.0	7.00 177.8		0.88 22.4	1.12 28.4	3.56 90.4	4.12 104.6	4	0.75 19.1	5.50 139.7	7.2 3.28
3"	3.50 88.9	7.50 190.5		0.94 23.9	1.19 30.2	4.25 108.0	5.00 127.0	4	0.75 19.1	6.00 152.4	8.5 3.85
3 1/2"	4.00 101.6	8.50 215.9		0.94 23.9	1.25 31.8	4.81 122.2	5.50 139.7	8	0.75 19.1	7.00 177.8	10.6 4.81
4"	4.50 114.3	9.00 228.6		0.94 23.9	1.31 33.3	5.31 134.9	6.19 157.2	8	0.75 19.1	7.50 190.5	11.7 5.30
5"	5.563 141.3	10.00 254.0		0.94 23.9	1.44 36.6	6.44 163.6	7.31 185.7	8	0.88 22.4	8.50 215.9	13.4 6.07
6"	6.625 168.3	11.00 279.4		1.00 25.4	1.56 39.6	7.56 192.0	8.50 215.9	8	0.88 22.4	9.50 241.3	16.4 7.45
8"	8.625 219.1	13.50 342.9		1.12 28.4	1.75 44.5	9.69 246.1	10.62 269.7	8	0.88 22.4	11.75 298.5	26.7 12.1
10"	10.75 273	16.00 406.4		1.19 30.2	1.94 49.3	12.00 304.8	12.75 323.9	12	1.00 25.4	14.25 362.0	36.3 16.5
12"	12.75 323.8	19.00 482.6		1.25 31.8	2.19 55.6	14.38 365.3	15.00 381.0	12	1.00 25.4	17.00 431.8	57.7 26.2
14"	14.0 355.6	21.00 533.4		1.38 35.1	2.25 57.2	15.75 400.1	16.25 412.8	12	1.12 28.4	18.75 476.3	76.2 34.6
16"	16.0 406.4	23.50 596.9		1.44 36.6	2.50 63.5	18.00 457.2	18.50 469.9	16	1.12 28.4	21.25 539.8	98.7 44.8
18"	18.0 457.2	25.00 635.0		1.56 39.6	2.69 68.3	19.88 505.0	21.00 533.4	16	1.25 31.8	22.75 577.9	108 48.9
20"	20.0 508	27.50 698.5		1.69 42.9	2.88 73.2	22.00 558.8	23.00 584.2	20	1.25 31.8	25.00 635.0	136 61.9
24"	24.0 609.6	32.00 812.8		1.88 47.8	3.25 82.6	26.12 663.4	27.25 692.2	20	1.38 35.1	29.50 749.3	191 86.9

No Counter Bore Required on 150 lb Threaded Flanges
 Keine Eindrehung bei Gewindeflanschen 150 lb

300 lb/sq. in.

Threaded Flanges

Gewindeflansche



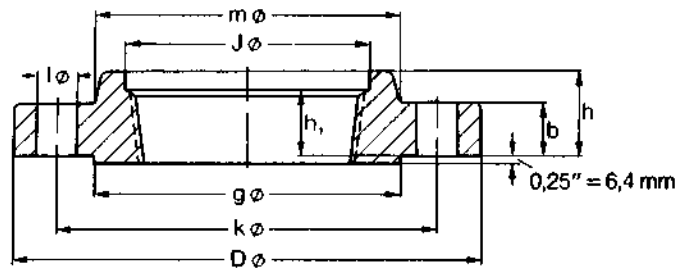
Thread type: Standard taper pipe thread to ANSI B 2.1
 Gewindeart: Standard-Rohrgewinde (NPT) nach ANSI B 2.1

ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3	3.75 95.2	0.93 23.6	0.56 14.2	0.88 22.3	0.62 15.7	1.50 38.1	1.38 35.0	4	0.62 15.7	2.62 66.5	1.4 0.64
3/4"	1.05 26.7	4.62 117.3	1.14 29.0	0.62 15.7	1.00 25.4	0.62 15.7	1.88 47.7	1.69 42.9	4	0.75 19.0	3.25 82.5	2.5 1.12
1"	1.315 33.4	4.88 123.9	1.41 35.8	0.69 17.5	1.06 26.9	0.69 17.5	2.12 53.8	2.00 50.8	4	0.75 19.0	3.50 88.9	3.0 1.36
1 1/4"	1.66 42.2	5.25 133.3	1.75 44.4	0.75 19.0	1.06 26.9	0.81 20.5	2.50 63.5	2.50 63.5	4	0.75 19.0	3.88 98.5	3.7 1.68
1 1/2"	1.90 48.3	6.12 155.4	1.99 50.5	0.81 20.6	1.19 30.2	0.88 22.3	2.75 69.8	2.88 73.1	4	0.88 22.3	4.50 114.3	5.5 2.49
2"	2.375 60.3	6.50 165.1	2.50 63.5	0.88 22.3	1.31 33.2	1.12 28.4	3.31 84.0	3.62 91.9	8	0.75 19.0	5.00 127.0	6.3 2.87
2 1/2"	2.875 73.0	7.50 190.5	3.00 76.2	1.00 25.4	1.50 38.1	1.25 31.7	3.94 100.0	4.12 104.6	8	0.88 22.3	5.88 149.3	9.5 4.32
3"	3.50 88.9	8.25 209.5	3.63 92.2	1.12 28.4	1.69 42.9	1.25 31.7	4.62 117.3	5.00 127.0	8	0.88 22.3	6.62 168.1	12.9 5.85
3 1/2"	4.00 101.6	9.00 228.6	4.13 104.9	1.19 30.2	1.75 44.4	1.44 36.5	5.25 133.3	5.50 139.7	8	0.88 22.3	7.25 184.1	16.2 7.34
4"	4.50 114.3	10.00 254.0	4.63 117.6	1.25 31.7	1.88 47.7	1.44 36.5	5.75 146.0	6.19 157.2	8	0.88 22.3	7.88 200.1	21.2 9.61
5"	5.563 141.3	11.00 279.4	5.69 144.5	1.38 35.0	2.00 50.8	1.69 42.9	7.00 177.8	7.31 185.6	8	0.88 22.3	9.25 234.9	27.1 12.3
6"	6.625 168.3	12.50 317.5	6.75 171.4	1.44 36.5	2.06 52.3	1.81 45.9	8.12 206.2	8.50 251.9	12	0.88 22.3	10.62 269.7	34.4 15.6
8"	8.625 219.1	15.00 381.0	8.75 222.2	1.62 41.1	2.44 61.9	2.00 50.8	10.25 260.3	10.62 269.7	12	1.00 25.4	13.00 330.2	53.3 24.2
10"	10.75 273	17.50 444.5	10.88 276.3	1.88 47.7	2.62 66.5	2.19 55.6	12.62 320.5	12.75 323.8	16	1.12 28.4	15.25 387.3	75.1 34.1
12"	12.75 323.8	20.50 520.7	12.94 328.7	2.00 50.8	2.88 73.1	2.38 60.4	14.75 374.6	15.00 381.0	16	1.25 31.7	17.75 450.8	110 49.8
14"	14.0 355.6	23.00 584.2	14.19 360.4	2.12 53.8	3.00 76.2	2.50 63.5	16.75 425.4	16.25 412.7	20	1.25 31.7	20.25 514.3	154 69.9
16"	16.0 406.4	25.50 647.7	16.19 411.2	2.25 57.1	3.25 82.5	2.69 68.3	19.00 482.6	18.50 469.9	20	1.38 35.0	22.50 571.5	194 88.1
18"	18.0 457.2	28.00 711.2	18.19 462	2.38 60.4	3.50 88.9	2.75 69.8	21.00 533.4	21.00 533.4	24	1.38 35.0	24.75 628.6	240 109
20"	20.0 508	30.50 774.7	20.19 512.8	2.50 63.5	3.75 95.2	2.88 73.1	23.12 587.2	23.00 584.2	24	1.38 35.0	27.00 685.8	295 134
24"	24.0 609.6	36.00 914.4	24.19 614.4	2.75 69.8	4.19 106.4	3.25 82.5	27.62 701.5	27.25 692.1	24	1.62 41.1	32.00 812.8	443 201

600 lb/sq. in.

**Threaded Flanges
Gewindeflansche**



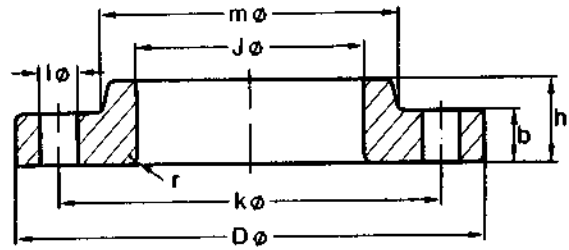
Thread type: Standard taper pipe thread to ANSI B 2.1
Gewindeart: Standard-Rohrgewinde (NPT) nach ANSI B 2.1

ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0,84	3,75	0,93	0,56	0,88	0,62	1,50	1,38	4	0,62	2,62	1,6
	21,3	95,3	23,6	14,2	22,4	15,7	38,1	35,1		15,7	66,5	0,74
3/4"	1,05	4,62	1,14	0,62	1,00	0,62	1,88	1,69	4	0,75	3,25	2,8
	26,7	117,3	29,0	15,7	25,4	15,7	47,8	42,9		19,1	82,6	1,27
1"	1,315	4,88	1,41	0,69	1,06	0,69	2,12	2,00	4	0,75	3,50	3,3
	33,4	124,0	35,8	17,5	26,9	17,5	53,8	50,8		19,1	88,9	1,52
1 1/4"	1,66	5,25	1,75	0,81	1,12	0,81	2,50	2,50	4	0,75	3,88	4,5
	42,2	133,4	44,5	20,6	28,4	20,6	63,5	63,5		19,1	98,6	2,03
1 1/2"	1,90	6,12	1,99	0,88	1,25	0,88	2,75	2,88	4	0,88	4,50	6,5
	48,3	155,4	50,5	22,4	31,8	22,4	69,9	73,1		22,4	114,3	2,96
2"	2,375	6,50	2,50	1,00	1,44	1,12	3,31	3,62	8	0,75	5,00	8,0
	60,3	165,1	63,5	25,4	36,6	28,4	84,1	91,9		19,1	127,0	3,62
2 1/2"	2,875	7,50	3,00	1,12	1,62	1,25	3,94	4,12	8	0,88	5,88	11,6
	73,0	190,5	76,2	28,4	41,1	31,8	100,1	104,6		22,4	149,4	5,28
3"	3,50	8,25	3,63	1,25	1,81	1,38	4,62	5,00	8	0,88	6,62	15,4
	88,9	209,6	92,2	31,8	46,0	35,1	117,3	127,0		22,4	168,1	7,00
3 1/2"	4,00	9,00	4,13	1,38	1,94	1,56	5,25	5,50	8	1,00	7,25	19,5
	101,6	228,6	104,9	35,1	49,3	39,6	133,4	139,7		25,4	184,2	8,84
4"	4,50	10,75	4,63	1,50	2,12	1,62	6,00	6,19	8	1,00	8,50	31,9
	114,3	273,1	117,6	38,1	53,8	41,1	152,4	157,2		25,4	215,9	14,5
5"	5,563	13,00	5,69	1,75	2,38	1,88	7,44	7,31	8	1,12	10,50	53,7
	141,3	330,2	144,5	44,5	60,5	47,8	189,0	185,7		28,4	266,7	24,4
6"	6,625	14,00	6,75	1,88	2,62	2,00	8,75	8,50	12	1,12	11,50	63,2
	168,3	355,6	171,5	47,8	66,5	50,8	222,3	215,9		28,4	292,1	28,7
8"	8,625	16,50	8,75	2,19	3,00	2,25	10,75	10,62	12	1,25	13,75	95,6
	219,1	419,1	222,3	55,6	76,2	57,2	273,1	269,7		31,8	349,3	43,4
10"	10,75	20,00	10,88	2,50	3,38	2,56	13,50	12,75	16	1,38	17,00	155
	273	508,0	276,4	63,5	85,9	65,0	342,9	323,9		35,1	431,8	70,3
12"	12,75	22,00	12,94	2,62	3,62	2,75	15,75	15,00	20	1,38	19,25	186
	323,8	558,8	328,7	66,5	91,9	69,9	400,1	381,0		35,1	489,0	84,2
14"	14,0	23,75	14,19	2,75	3,69	2,88	17,00	16,25	20	1,50	20,75	217
	355,6	603,3	360,4	69,9	93,7	73,2	431,8	412,8		38,1	527,1	98,7
16"	16,0	27,00	16,19	3,00	4,19	3,06	19,50	18,50	20	1,62	23,75	313
	406,4	685,8	411,2	76,2	106,4	77,7	495,3	469,9		41,1	603,3	142
18"	18,0	29,25	18,19	3,25	4,62	3,12	21,50	21,00	20	1,75	25,75	381
	457,2	743,0	462,0	82,6	117,3	79,2	546,1	533,4		44,5	654,1	173
20"	20,0	32,00	20,19	3,50	5,00	3,25	24,00	23,00	24	1,75	28,50	485
	508	812,8	512,8	88,9	127,0	82,6	609,6	584,2		44,5	723,9	220
24"	24,0	37,00	24,19	4,00	5,50	3,62	28,25	27,25	24	2,00	33,00	687
	609,6	939,8	614,4	101,6	139,7	91,9	717,6	692,2		50,8	838,2	312

150 lb/sq. in.

**Lap Joint Flanges
Lose Flansche**



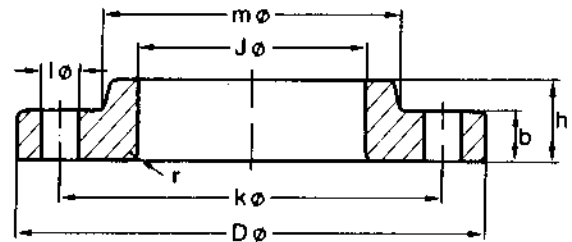
ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h in. mm	r in. mm	m in. mm	Num-ber Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3	3.50 88.9	0.90 22.9	0.44 11.2	0.62 15.7	0.12 3.0	1.19 30.2	4	0.62 15.7	2.38 60.5	0.8 0.38
3/4"	1.05 26.7	3.88 98.6	1.11 28.2	0.50 12.7	0.62 15.7	0.12 3.0	1.50 38.1	4	0.62 15.7	2.75 69.9	1.2 0.55
1"	1.315 33.4	4.25 108.0	1.38 35.1	0.56 14.2	0.69 17.5	0.12 3.0	1.94 49.3	4	0.62 15.7	3.12 79.2	1.7 0.76
1 1/4"	1.66 42.2	4.62 117.3	1.72 43.7	0.62 15.7	0.81 20.6	0.19 4.8	2.31 58.7	4	0.62 15.7	3.50 88.9	2.2 1.01
1 1/2"	1.90 48.3	5.00 127.0	1.97 50.0	0.69 17.5	0.88 22.4	0.25 6.4	2.56 65.0	4	0.62 15.7	3.88 98.6	2.9 1.30
2"	2.375 60.3	6.00 152.4	2.46 62.5	0.75 19.1	1.00 25.4	0.31 7.9	3.06 77.7	4	0.75 19.1	4.75 120.7	4.5 2.03
2 1/2"	2.875 73.0	7.00 177.8	2.97 75.4	0.88 22.4	1.12 28.4	0.31 7.9	3.56 90.4	4	0.75 19.1	5.50 139.7	7.2 3.25
3"	3.50 88.9	7.50 190.5	3.60 91.4	0.94 23.9	1.19 30.2	0.38 9.7	4.25 108.0	4	0.75 19.1	6.00 152.4	8.4 3.81
3 1/2"	4.00 101.6	8.50 215.9	4.10 104.1	0.94 23.9	1.25 31.8	0.38 9.7	4.81 122.2	8	0.75 19.1	7.00 177.8	10.5 4.76
4"	4.50 114.3	9.00 228.6	4.60 116.8	0.94 23.9	1.31 33.3	0.44 11.2	5.31 134.9	8	0.75 19.1	7.50 190.5	11.6 5.25
5"	5.563 141.3	10.00 254.0	5.69 144.5	0.94 23.9	1.44 36.6	0.44 11.2	6.44 163.6	8	0.88 22.4	8.50 215.9	13.3 6.02
6"	6.625 168.3	11.00 279.4	6.75 171.5	1.00 25.4	1.56 39.6	0.50 12.7	7.56 192.0	8	0.88 22.4	9.50 241.3	16.3 7.40
8"	8.625 219.1	13.50 342.9	8.75 222.3	1.12 28.4	1.75 44.5	0.50 12.7	9.69 246.1	8	0.88 22.4	11.75 298.5	26.7 12.1
10"	10.75 273	16.00 406.4	10.92 277.4	1.19 30.2	1.94 49.3	0.50 12.7	12.00 304.8	12	1.00 25.4	14.25 362.0	36.1 16.4
12"	12.75 323.8	19.00 482.6	12.92 328.2	1.25 31.8	2.19 55.6	0.50 12.7	14.38 365.3	12	1.00 25.4	17.00 431.8	57.5 26.1
14"	14.0 355.6	21.00 533.4	14.18 360.2	1.38 35.1	3.12 79.2	0.50 12.7	15.75 400.1	12	1.12 28.4	18.75 476.3	76.0 34.5
16"	16.0 406.4	23.50 596.9	16.19 411.2	1.44 36.6	3.44 87.4	0.50 12.7	18.00 457.2	16	1.12 28.4	21.25 539.8	98.2 44.6
18"	18.0 457.2	25.00 635.0	18.20 462.3	1.56 39.6	3.81 96.8	0.50 12.7	19.88 505.0	16	1.25 31.8	22.75 577.9	107 48.7
20"	20.0 508	27.50 698.5	20.25 514.4	1.69 42.9	4.06 103.1	0.50 12.7	22.00 558.8	20	1.25 31.8	25.00 635.0	136 61.6
24"	24.0 609.6	32.00 812.8	24.25 616.0	1.88 47.8	4.38 111.3	0.50 12.7	26.12 663.4	20	1.38 35.1	29.50 749.3	191 86.6

300 lb/sq. in.

Lap Joint Flanges

Lose Flansche

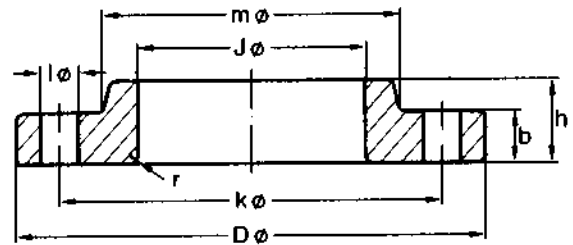


ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O.D. in. mm	D in. mm	J in. mm	b in. mm	h in. mm	r in. mm	m in. mm	Number Anzahl	l in. mm	k in. mm	= Pounds Kilo
1/2"	0.84 21.3	3.75 95.2	0.90 22.9	0.56 14.2	0.88 22.3	0.12 3.0	1.50 38.1	4	0.62 15.7	2.62 66.5	1.4 0.62
3/4"	1.05 26.7	4.62 117.3	1.11 28.2	0.62 15.7	1.00 25.4	0.12 3.0	1.88 47.7	4	0.75 19.0	3.25 82.5	2.4 1.10
1"	1.315 33.4	4.88 123.9	1.38 35	0.69 17.5	1.06 26.9	0.12 3.0	2.12 53.8	4	0.75 19.0	3.50 88.9	2.9 1.33
1 1/4"	1.66 42.2	5.25 133.3	1.72 43.7	0.75 19.0	1.06 26.9	0.19 4.8	2.50 63.5	4	0.75 19.0	3.88 98.5	3.6 1.65
1 1/2"	1.90 48.3	6.12 155.4	1.97 50.0	0.81 20.6	1.19 30.2	0.25 6.4	2.75 69.8	4	0.88 22.3	4.50 114.3	5.4 2.44
2"	2.375 60.3	6.50 165.1	2.46 62.5	0.88 22.3	1.31 33.2	0.31 7.8	3.31 84.0	8	0.75 19.0	5.00 127.0	6.2 2.83
2 1/2"	2.875 73.0	7.50 190.5	2.97 75.4	1.00 25.4	1.50 38.1	0.31 7.8	3.94 100.0	8	0.88 22.3	5.88 149.3	9.4 4.25
3"	3.50 88.9	8.25 209.5	3.60 91.4	1.12 28.4	1.69 42.9	0.38 9.6	4.62 117.3	8	0.88 22.3	6.62 168.1	12.7 5.78
3 1/2"	4.00 101.6	9.00 228.6	4.10 104.1	1.19 30.2	1.75 44.4	0.38 9.6	5.25 133.3	8	0.88 22.3	7.25 184.1	16.0 7.27
4"	4.50 114.3	10.00 254.0	4.60 116.8	1.25 31.7	1.88 47.7	0.44 11.1	5.75 146.0	8	0.88 22.3	7.88 200.1	21.0 9.55
5"	5.563 141.3	11.00 279.4	5.69 144.5	1.38 35.0	2.00 50.8	0.44 11.1	7.00 177.8	8	0.88 22.3	9.25 234.9	26.9 12.2
6"	6.625 168.3	12.50 317.5	6.75 171.4	1.44 36.5	2.06 52.3	0.50 12.7	8.12 206.2	12	0.88 22.3	10.62 269.7	34.1 15.5
8"	8.625 219.1	15.00 381.0	8.75 222.2	1.62 41.1	2.44 61.9	0.50 12.7	10.25 260.3	12	1.00 25.4	13.00 330.2	53.1 24.1
10"	10.75 273	17.50 444.5	10.92 277.4	1.88 47.7	3.75 95.2	0.50 12.7	12.62 320.5	16	1.12 28.4	15.25 387.3	75.8 34.4
12"	12.75 323.8	20.50 520.7	12.92 328.2	2.00 50.8	4.00 101.6	0.50 12.7	14.75 374.6	16	1.25 31.7	17.75 450.8	111 50.4
14"	14.0 355.6	23.00 584.2	14.18 360.2	2.12 53.8	4.38 111.2	0.50 12.7	16.75 425.4	20	1.25 31.7	20.25 514.3	156 70.9
16"	16.0 406.4	25.50 647.7	16.19 411.2	2.25 57.1	4.75 120.6	0.50 12.7	19.00 482.6	20	1.38 35.0	22.50 571.5	197 89.5
18"	18.0 457.2	28.00 711.2	18.20 462.3	2.38 60.4	5.12 130.0	0.50 12.7	21.00 533.4	24	1.38 35.0	24.75 628.6	245 111
20"	20.0 508	30.50 774.7	20.25 514.3	2.50 63.5	5.50 139.7	0.50 12.7	23.12 587.2	24	1.38 35.0	27.00 685.8	302 137
24"	24.0 609.6	36.00 914.4	24.25 615.9	2.75 69.8	6.00 152.4	0.50 12.7	27.62 701.5	24	1.62 41.1	32.00 812.8	449 204

600 lb/sq. in.

Lap Joint Flanges
Lose Flansche

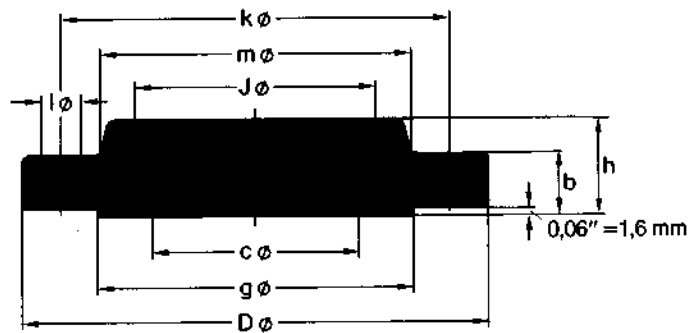


ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	OD in. mm	D in. mm	J in. mm	b in. mm	h in. mm	r in. mm	m in. mm	Num- ber Anzahl	l in. mm	k in. mm	Pounds Kilo
1/2"	0.84 21.3	3.75 95.3	0.90 22.9	0.56 14.2	0.88 22.4	0.12 3.0	1.50 38.1	4	0.62 15.7	2.62 66.5	1.6 0.72
3/4"	1.05 26.7	4.62 117.3	1.11 28.2	0.62 15.7	1.00 25.4	0.12 3.0	1.88 47.8	4	0.75 19.1	3.25 82.6	2.8 1.25
1"	1.315 33.4	4.88 124.0	1.38 35.1	0.69 17.5	1.06 26.9	0.12 3.0	2.12 53.8	4	0.75 19.1	3.50 88.9	3.3 1.50
1 1/4"	1.66 42.2	5.25 133.4	1.72 43.7	0.81 20.6	1.12 28.4	0.19 4.8	2.50 63.5	4	0.75 19.1	3.88 98.6	4.4 2.00
1 1/2"	1.90 48.3	6.12 155.4	1.97 50.0	0.88 22.4	1.25 31.8	0.25 6.4	2.75 69.9	4	0.88 22.4	4.50 114.3	6.4 2.92
2"	2.375 60.3	6.50 165.1	2.46 62.5	1.00 25.4	1.44 36.6	0.31 7.9	3.31 84.1	8	0.75 19.1	5.00 127.0	7.8 3.55
2 1/2"	2.875 73.0	7.50 190.5	2.97 75.4	1.12 28.4	1.62 41.1	0.31 7.9	3.94 100.1	8	0.88 22.4	5.88 149.4	11.5 5.23
3"	3.50 88.9	8.25 209.6	3.60 91.4	1.25 31.8	1.81 46.0	0.38 9.7	4.62 117.3	8	0.88 22.4	6.62 168.1	15.3 6.95
3 1/2"	4.00 101.6	9.00 228.6	4.10 104.1	1.38 35.1	1.94 49.3	0.38 9.7	5.25 133.4	8	1.00 25.4	7.25 184.2	19.3 8.78
4"	4.50 114.3	10.75 273.1	4.60 116.8	1.50 38.1	2.12 53.8	0.44 11.2	6.00 152.4	8	1.00 25.4	8.50 215.9	31.7 14.4
5"	5.563 141.3	13.00 330.2	5.69 144.5	1.75 44.5	2.38 60.5	0.44 11.2	7.44 189.0	8	1.12 28.4	10.50 266.7	53.5 24.3
6"	6.625 168.3	14.00 355.6	6.75 171.5	1.88 47.8	2.62 66.5	0.50 12.7	8.75 222.3	12	1.12 28.4	11.50 292.1	62.8 28.5
8"	8.625 219.1	16.50 419.1	8.75 222.3	2.19 55.6	3.00 76.2	0.50 12.7	10.75 273.1	12	1.25 31.8	13.75 349.3	94.9 43.1
10"	10.75 273	20.00 508.0	10.92 277.4	2.50 63.5	4.38 111.3	0.50 12.7	13.50 342.9	16	1.38 35.1	17.00 431.8	155 70.5
12"	12.75 323.8	22.00 558.8	12.92 328.2	2.62 66.5	4.62 117.3	0.50 12.7	15.75 400.1	20	1.38 35.1	19.25 489.0	190 86.1
14"	14.0 355.6	23.75 603.3	14.18 360.2	2.75 69.9	5.00 127.0	0.50 12.7	17.00 431.8	20	1.50 38.1	20.75 527.1	220 100
16"	16.0 406.4	27.00 685.8	16.19 411.2	3.00 76.2	5.50 139.7	0.50 12.7	19.50 495.3	20	1.62 41.1	23.75 603.3	319 145
18"	18.0 457.2	29.25 743.0	18.20 462.3	3.25 82.6	6.00 152.4	0.50 12.7	21.50 546.1	20	1.75 44.5	25.75 654.1	390 177
20"	20.0 508	32.00 812.8	20.25 514.4	3.50 88.9	6.50 165.1	0.50 12.7	24.00 609.6	24	1.75 44.5	28.50 723.9	496 225
24"	24.0 609.6	37.00 939.8	24.25 616.0	4.00 101.6	7.25 184.2	0.50 12.7	28.25 717.6	24	2.00 50.8	33.00 838.2	700 318

150 lb/sq. in.

**Socket Welding Flanges
Einsteckschweißflansche**



ANSI B 16.5

Pipe Rohr		Flange Flansch						Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	c in. mm	p in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0,84 21,3	3,50 88,9	0,88 22,4	0,62 15,7	0,38 9,6	0,44 11,2	0,62 15,7	1,19 30,2	1,38 35,1	4	0,62 15,7	2,38 60,5	0,9 0,42
3/4"	1,05 26,7	3,88 98,6	1,09 27,7	0,82 20,8	0,44 11,1	0,50 12,7	0,62 15,7	1,50 38,1	1,69 42,9	4	0,62 15,7	2,75 69,9	1,3 0,59
1"	1,315 33,4	4,25 108,0	1,36 34,5	1,05 26,7	0,50 12,7	0,56 14,2	0,69 17,5	1,94 49,3	2,00 50,8	4	0,62 15,7	3,12 79,2	1,8 0,81
1 1/4"	1,66 42,2	4,62 117,3	1,70 43,2	1,38 35,1	0,56 14,2	0,62 15,7	0,81 20,6	2,31 58,7	2,50 63,5	4	0,62 15,7	3,50 88,9	2,4 1,07
1 1/2"	1,90 48,3	5,00 127,0	1,95 49,5	1,61 40,9	0,62 15,7	0,69 17,5	0,88 22,4	2,56 65,0	2,88 73,1	4	0,62 15,7	3,88 98,6	3,0 1,36
2"	2,375 60,3	6,00 152,4	2,44 62,0	2,07 52,6	0,69 17,5	0,75 19,1	1,00 25,4	3,06 77,7	3,62 91,9	4	0,75 19,1	4,75 120,7	4,6 2,10
2 1/2"	2,875 73,0	7,00 177,8	2,94 74,7	2,47 62,7	0,75 19,0	0,88 22,4	1,12 28,4	3,56 90,4	4,12 104,6	4	0,75 19,1	5,50 139,7	7,3 3,33
3"	3,50 88,9	7,50 190,5	3,57 90,7	3,07 78,0	0,81 20,6	0,94 23,9	1,19 30,2	4,25 108,0	5,00 127,0	4	0,75 19,1	6,00 152,4	8,6 3,90

300 lb/sq. in.

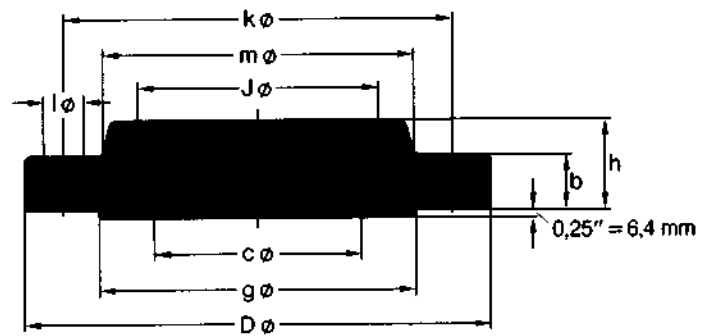
**Socket Welding Flanges
Einsteckschweißflansche**

ANSI B 16.5

Pipe Rohr		Flange Flansch						Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	c in. mm	p in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0,84 21,3	3,75 95,2	0,88 22,4	0,62 15,7	0,38 9,6	0,56 14,2	0,88 22,3	1,50 38,1	1,38 35,1	4	0,62 15,7	2,62 66,5	1,5 0,66
3/4"	1,05 26,7	3,88 98,6	1,09 27,7	0,82 20,8	0,44 11,1	0,50 12,7	1,00 25,4	1,88 47,7	1,69 42,9	4	0,75 19,0	3,25 82,5	2,5 1,15
1"	1,315 33,4	4,88 123,9	1,36 34,5	1,05 26,7	0,50 12,7	0,69 17,5	1,06 26,9	2,12 53,8	2,00 50,8	4	0,75 19,0	3,50 88,9	3,1 1,40
1 1/4"	1,66 42,2	5,25 133,3	1,70 43,2	1,38 35,1	0,56 14,2	0,75 19,0	1,06 26,9	2,50 63,5	2,50 63,5	4	0,75 19,0	3,88 98,5	3,9 1,75
1 1/2"	1,90 48,3	6,12 155,4	1,95 49,5	1,61 40,9	0,62 15,7	0,81 20,6	1,19 30,2	2,75 69,8	2,88 73,1	4	0,88 22,3	4,50 114,3	5,6 2,55
2"	2,375 60,3	6,50 165,1	2,44 62,0	2,07 52,6	0,69 17,5	0,88 22,3	1,31 33,2	3,31 84,0	3,62 91,9	8	0,75 19,0	5,00 127,0	6,5 2,93
2 1/2"	2,875 73,0	7,50 190,5	2,94 74,7	2,47 62,7	0,75 19,0	1,00 25,4	1,50 38,1	3,94 100,0	4,12 104,6	8	0,88 22,3	5,88 149,3	9,7 4,40
3"	3,50 88,9	8,25 209,5	3,57 90,7	3,07 78,0	0,81 20,6	1,12 28,4	1,69 42,9	4,62 117,3	5,00 127,0	8	0,88 22,3	6,62 168,1	13,0 5,92

600 lb/sq. in.

**Socket Welding Flanges
Einsteckschweißflansche**



ANSI B 16.5

Pipe Rohr		Flange Flansch						Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	c in. mm	p in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0,84 21,3	3,75 95,3	0,88 22,4	To be specified by purchaser Vom Besteller anzugeben	0,38 9,6	0,56 14,2	0,88 22,4	1,50 38,1	1,38 35,1	4	0,62 15,7	2,62 66,5	1,7 0,76
3/4"	1,05 26,7	4,62 117,3	1,09 27,7		0,44 11,1	0,62 15,7	1,00 25,4	1,88 47,8	1,69 42,9	4	0,75 19,1	3,25 82,6	2,8 1,29
1"	1,315 33,4	4,88 124,0	1,36 34,5		0,50 12,7	0,69 17,5	1,06 26,9	2,12 53,8	2,00 50,8	4	0,75 19,1	3,50 88,9	3,4 1,55
1 1/4"	1,66 42,2	5,25 133,4	1,70 43,2		0,56 14,2	0,81 20,6	1,12 28,4	2,50 63,5	2,50 63,5	4	0,75 19,1	3,88 98,6	4,5 2,06
1 1/2"	1,90 48,3	6,12 155,4	1,95 49,5		0,62 15,7	0,88 22,4	1,25 31,8	2,75 69,9	2,88 73,2	4	0,88 22,4	4,50 114,3	6,6 3,00
2"	2,375 60,3	6,50 165,1	2,44 62,0		0,69 17,5	1,00 25,4	1,44 36,6	3,31 84,1	3,62 91,9	8	0,75 19,1	5,00 127,0	8,1 3,67
2 1/2"	2,875 73,0	7,50 190,5	2,94 74,7		0,75 19,0	1,12 28,4	1,62 41,1	3,94 100,1	4,12 104,6	8	0,88 22,4	5,88 149,4	11,8 5,35
3"	3,50 88,9	8,25 209,6	3,57 90,7		0,81 20,6	1,25 31,8	1,81 46,0	4,62 117,3	5,00 127,0	8	0,88 22,4	6,62 168,1	15,6 7,06

1500 lb/sq. in.

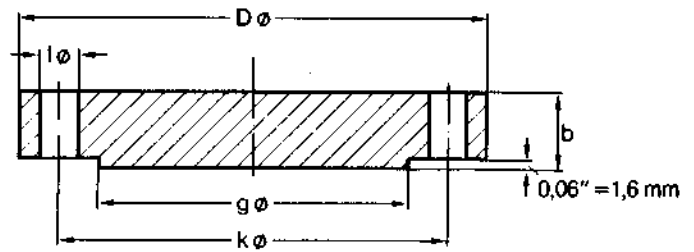
**Socket Welding Flanges
Einsteckschweißflansche**

ANSI B 16.5

Pipe Rohr		Flange Flansch						Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	c in. mm	p in. mm	b in. mm	h in. mm	m in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0,84 21,3	4,75 120,6	0,88 22,4	To be specified by purchaser Vom Besteller anzugeben	0,38 9,6	0,88 22,3	1,25 31,7	1,50 38,1	1,38 35,1	4	0,88 22,3	3,25 82,5	4,0 1,80
3/4"	1,05 26,7	5,12 130,0	1,09 27,7		0,44 11,1	1,00 25,4	1,38 35,0	1,75 44,4	1,69 42,9	4	0,88 22,3	3,50 88,9	5,3 2,41
1"	1,315 33,4	5,88 149,3	1,36 34,5		0,50 12,7	1,12 28,4	1,62 41,1	2,06 52,3	2,00 50,8	4	1,00 25,4	4,00 101,6	7,8 3,55
1 1/4"	1,66 42,2	6,25 158,7	1,70 43,2		0,56 14,2	1,12 28,4	1,62 41,1	2,50 63,5	2,50 63,5	4	1,00 25,4	4,38 111,2	8,9 4,02
1 1/2"	1,90 48,3	7,00 177,8	1,95 49,5		0,62 15,7	1,25 31,7	1,75 44,5	2,75 69,8	2,88 73,1	4	1,12 28,4	4,88 123,9	12,0 5,45
2"	2,375 60,3	8,50 215,9	2,44 62,0		0,69 17,5	1,50 38,1	2,25 57,1	4,12 104,6	3,62 91,9	8	1,00 25,4	6,50 165,1	22,5 10,2
2 1/2"	2,875 73,0	9,62 244,3	2,94 74,7		0,75 19,0	1,62 41,1	2,50 63,5	4,88 123,9	4,12 104,6	8	1,12 28,4	7,50 190,5	30,6 13,9

150 lb/sq. in.

Blind Flanges Blindflansche

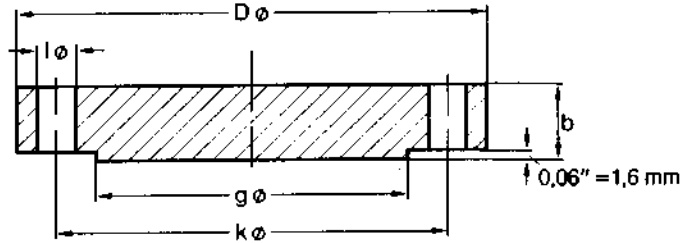


ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubentöcher			Approx. Weight Gewicht ≈ Pounds Kilo
Nominal Size DN	O D in. mm	D in. mm	b in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	
1/2"	0.84	3.50	0.44	1.38	4	0.62	2.38	0.9
	21.3	88.9	11.2	35.1		15.7	60.5	0.42
3/4"	1.05	3.88	0.50	1.69	4	0.62	2.75	1.3
	26.7	98.6	12.7	42.9		15.7	69.9	0.61
1"	1.315	4.25	0.56	2.00	4	0.62	3.12	1.9
	33.4	108.0	14.2	50.8		15.7	79.2	0.86
1 1/4"	1.66	4.62	0.62	2.50	4	0.62	3.50	2.6
	42.2	117.3	15.7	63.5		15.7	88.9	1.17
1 1/2"	1.90	5.00	0.69	2.88	4	0.62	3.88	3.4
	48.3	127.0	17.5	73.2		15.7	98.6	1.53
2"	2.375	6.00	0.75	3.62	4	0.75	4.75	5.3
	60.3	152.4	19.1	91.9		19.1	120.7	2.42
2 1/2"	2.875	7.00	0.88	4.12	4	0.75	5.50	8.7
	73.0	177.8	22.4	104.6		19.1	139.7	3.94
3"	3.50	7.50	0.94	5.00	4	0.75	6.00	10.9
	88.9	190.5	23.9	127.0		19.1	152.4	4.93
3 1/2"	4.00	8.50	0.94	5.50	8	0.75	7.00	13.6
	101.6	215.9	23.9	139.7		19.1	177.8	6.17
4"	4.50	9.00	0.94	6.19	8	0.75	7.50	15.4
	114.3	228.6	23.9	157.2		19.1	190.5	7.00
5"	5.563	10.00	0.94	7.31	8	0.88	8.50	19.0
	141.3	254.0	23.9	185.7		22.4	215.9	8.63
6"	6.625	11.00	1.00	8.50	8	0.88	9.50	24.9
	168.3	279.4	25.4	215.9		22.4	241.3	11.3
8"	8.625	13.50	1.12	10.62	8	0.88	11.75	43.2
	219.1	342.9	28.4	269.7		22.4	298.5	19.6
10"	10.75	16.00	1.19	12.75	12	1.00	14.25	63.4
	273	406.4	30.2	323.9		25.4	362.0	28.8
12"	12.75	19.00	1.25	15.00	12	1.00	17.00	95.2
	323.8	482.6	31.8	381.0		25.4	431.8	43.2
14"	14.0	21.00	1.38	16.25	12	1.12	18.75	128
	355.6	533.4	35.1	412.8		28.4	476.3	58.1
16"	16.0	23.50	1.44	18.50	16	1.12	21.25	167
	406.4	596.9	36.6	469.9		28.4	539.8	76.0
18"	18.0	25.00	1.56	21.00	16	1.25	22.75	206
	457.2	635.0	39.6	533.4		31.8	577.9	93.7
20"	20.0	27.50	1.69	23.00	20	1.25	25.00	269
	508	698.5	42.9	584.2		31.8	635.0	122
24"	24.0	32.00	1.88	27.25	20	1.38	29.50	408
	609.6	812.8	47.8	692.2		35.1	749.3	185

300 lb/sq. in.

**Blind Flanges
Blindflansche**

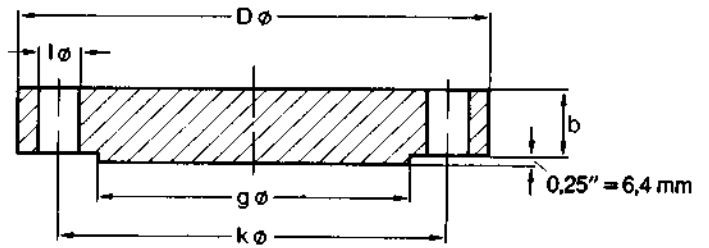


ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
Nominal Size DN	O D in. mm	D in. mm	b in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	
1/2"	0.84 21.3	3.75 95.2	0.56 14.2	1.38 35.0	4	0.62 15.7	2.62 66.5	1.4 0.64
3/4"	1.05 26.7	4.62 117.3	0.62 15.7	1.69 42.9	4	0.75 19.0	3.25 82.5	2.4 1.11
1"	1.315 33.4	4.88 123.9	0.69 17.5	2.00 50.8	4	0.75 19.0	3.50 88.9	3.1 1.39
1 1/4"	1.66 42.2	5.25 133.3	0.75 19.0	2.50 63.5	4	0.75 19.0	3.88 98.5	3.9 1.79
1 1/2"	1.90 48.3	6.12 155.4	0.81 20.6	2.88 73.1	4	0.88 22.3	4.50 114.3	5.9 2.66
2"	2.375 60.3	6.50 165.1	0.88 22.3	3.62 91.9	8	0.75 19.0	5.00 127.0	7.0 3.18
2 1/2"	2.875 73.0	7.50 190.5	1.00 25.4	4.12 104.6	8	0.88 22.3	5.88 149.3	10.7 4.85
3"	3.50 88.9	8.25 209.5	1.12 28.4	5.00 127.0	8	0.88 22.3	6.62 168.1	15.0 6.81
3 1/2"	4.00 101.6	9.00 228.6	1.19 30.2	5.50 139.7	8	0.88 22.3	7.25 184.1	19.2 8.71
4"	4.50 114.3	10.00 254.0	1.25 31.7	6.19 157.2	8	0.88 22.3	7.88 200.1	25.3 11.5
5"	5.563 141.3	11.00 279.4	1.38 35.0	7.31 185.6	8	0.88 22.3	9.25 234.9	34.4 15.6
6"	6.625 168.3	12.50 317.5	1.44 36.5	8.50 251.9	12	0.88 22.3	10.62 269.7	46.0 20.9
8"	8.625 219.1	15.00 381.0	1.62 41.1	10.62 269.7	12	1.00 25.4	13.00 330.2	75.6 34.3
10"	10.75 273	17.50 444.5	1.88 47.7	12.75 323.8	16	1.12 28.4	15.25 387.3	117 53.3
12"	12.75 323.8	20.50 520.7	2.00 50.8	15.00 381.0	16	1.25 31.7	17.75 450.8	174 78.8
14"	14.0 355.6	23.00 584.2	2.12 53.8	16.25 412.7	20	1.25 31.7	20.25 514.3	231 105
16"	16.0 406.4	25.50 647.7	2.25 57.1	18.50 469.9	20	1.38 35.0	22.50 571.5	302 137
18"	18.0 457.2	28.00 711.2	2.38 60.4	21.00 533.4	24	1.38 35.0	24.75 628.6	386 175
20"	20.0 508	30.50 774.7	2.50 63.5	23.00 584.2	24	1.38 35.0	27.00 685.8	487 221
24"	24.0 609.6	36.00 914.4	2.75 69.8	27.25 692.1	24	1.62 41.1	32.00 812.8	747 339

600 lb/sq. in.

**Blind Flanges
Blindflansche**

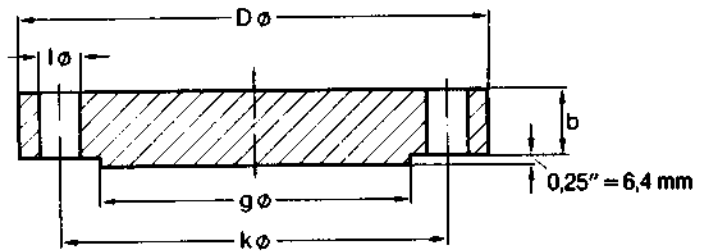


ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nominal Size DN	O D in. mm	D in. mm	b in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0,84	3,75	0,56	1,38	4	0,62	2,62	1,7
	21,3	95,3	14,2	35,1		15,7	66,5	0,76
3/4"	1,05	4,62	0,62	1,69	4	0,75	3,25	2,8
	26,7	117,3	15,7	42,9		19,1	82,6	1,28
1"	1,315	4,88	0,69	2,00	4	0,75	3,50	3,5
	33,4	124,0	17,5	50,8		19,1	88,9	1,60
1 1/4"	1,66	5,25	0,81	2,50	4	0,75	3,88	4,9
	42,2	133,4	20,6	63,5		19,1	98,6	2,23
1 1/2"	1,90	6,12	0,88	2,88	4	0,88	4,50	7,2
	48,3	155,4	22,4	73,2		22,4	114,3	3,25
2"	2,375	6,50	1,00	3,62	8	0,75	5,00	9,1
	60,3	165,1	25,4	91,9		19,1	127,0	4,15
2 1/2"	2,875	7,50	1,12	4,12	8	0,88	5,88	13,5
	73,0	190,5	28,4	104,6		22,4	149,4	6,13
3"	3,50	8,25	1,25	5,00	8	0,88	6,62	18,6
	88,9	209,6	31,8	127,0		22,4	168,1	8,44
3 1/2"	4,00	9,00	1,38	5,50	8	1,00	7,25	24,2
	101,6	228,6	35,1	139,7		25,4	184,2	11,0
4"	4,50	10,75	1,50	6,19	8	1,00	8,50	38,1
	114,3	273,1	38,1	157,2		25,4	215,9	17,3
5"	5,563	13,00	1,75	7,31	8	1,12	10,50	64,8
	141,3	330,2	44,5	185,7		28,4	266,7	29,4
6"	6,625	14,00	1,88	8,50	12	1,12	11,50	79,5
	168,3	355,6	47,8	215,9		28,4	292,1	36,1
8"	8,625	16,50	2,19	10,62	12	1,25	13,75	130
	219,1	419,1	55,6	269,7		31,8	349,3	58,9
10"	10,75	20,00	2,50	12,75	16	1,38	17,00	215
	273	508,0	63,5	323,9		35,1	431,8	97,5
12"	12,75	22,00	2,62	15,00	20	1,38	19,25	273
	323,8	558,8	66,5	381,0		35,1	489,0	124
14"	14,0	23,75	2,75	16,25	20	1,50	20,75	333
	355,6	603,3	69,9	412,8		38,1	527,1	151
16"	16,0	27,00	3,00	18,50	20	1,62	23,75	471
	406,4	685,8	76,2	469,9		41,1	603,3	214
18"	18,0	29,25	3,25	21,00	20	1,75	25,75	599
	457,2	743,0	82,6	533,4		44,5	654,1	272
20"	20,0	32,00	3,50	23,00	24	1,75	28,50	769
	508	812,8	88,9	584,2		44,5	723,9	349
24"	24,0	37,00	4,00	27,25	24	2,00	33,00	1174
	609,6	939,8	101,6	692,2		50,8	838,2	533

900 lb/sq. in.

**Blind Flanges
Blindflansche**

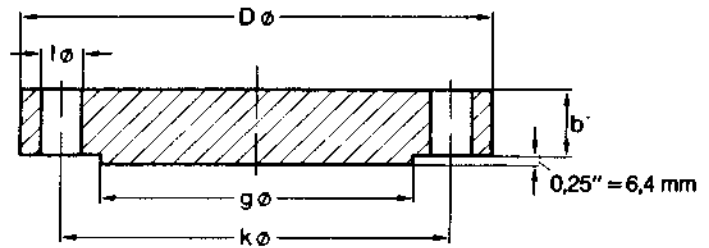


ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
Nominal Size DN	O D in. mm	D in. mm	b in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	
1/2"	0.84 21.3							
3/4"	1.05 26.7							
1"	1.315 33.4							
1 1/4"	1.66 42.2							
1 1/2"	1.90 48.3							
2"	2.375 60.3							
2 1/2"	2.875 73.0							
Use 1500 lb dimensions for these sizes Für diesen Bereich gelten 1500-lb-Abmessungen								
3"	3.50 88.9	9.50 241.3	1.50 38.1	5.00 127.0	8	1.00 25.4	7.50 190.5	28.9 13.1
4"	4.50 114.3	11.50 292.1	1.75 44.4	6.19 157.2	8	1.25 31.7	9.25 234.9	59.3 26.9
5"	5.563 141.3	13.75 349.2	2.00 50.8	7.31 185.6	8	1.38 35.0	11.00 279.4	80.4 36.5
6"	6.625 168.3	15.00 381.0	2.19 55.6	8.50 215.9	12	1.25 31.7	12.50 317.5	104 47.4
8"	8.625 219.1	18.50 469.9	2.50 63.5	10.62 269.7	12	1.50 38.1	15.50 393.7	182 82.5
10"	10.75 273	21.50 546.1	2.75 69.8	12.75 323.8	16	1.50 38.1	18.50 469.9	269 122
12"	12.75 323.8	24.00 609.6	3.12 79.2	15.00 381.0	20	1.50 38.1	21.00 533.4	381 173
14"	14.0 355.6	25.25 641.3	3.38 85.8	16.25 412.7	20	1.62 41.1	22.00 558.8	454 206
16"	16.0 406.4	27.75 704.8	3.50 88.9	18.50 469.9	20	1.75 44.4	24.25 615.9	571 259
18"	18.0 457.2	31.00 787.4	4.00 101.6	21.00 533.4	20	2.00 50.8	27.00 685.8	808 367
20"	20.0 508	33.75 857.2	4.25 107.9	23.00 584.2	20	2.12 53.8	29.50 749.3	1020 463
24"	24.0 609.6	41.00 1041.4	5.50 139.7	27.25 692.1	20	2.62 66.5	35.50 901.7	1930 876

1500 lb/sq. in.

**Blind Flanges
Blindflansche**

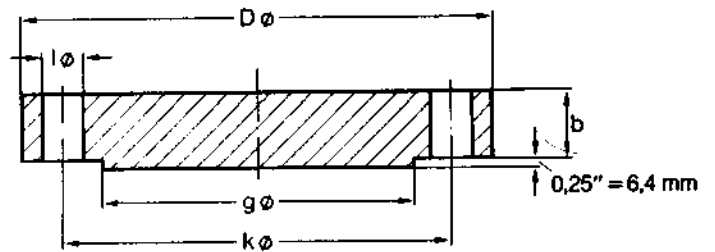


ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Number Anzahl	Drilling Template Schraubentöcher		Approx. Weight Gewicht ≈ Pounds Kilo
Nominal Size DN	O D in. mm	D in. mm	b in. mm	g in. mm		l in. mm	k in. mm	
1/2"	0,84	4,75	0,88	1,38	4	0,88	3,25	3,9
	21,3	120,6	22,3	35,0		22,3	82,5	1,77
3/4"	1,05	5,12	1,00	1,69	4	0,88	3,50	5,3
	26,7	130,0	25,4	42,9		22,3	88,9	2,42
1"	1,315	5,88	1,12	2,00	4	1,00	4,00	7,9
	33,4	149,3	28,4	50,8		25,4	101,6	3,57
1 1/4"	1,66	6,25	1,12	2,50	4	1,00	4,38	9,1
	42,2	158,7	28,4	63,5		25,4	111,2	4,14
1 1/2"	1,90	7,00	1,25	2,88	4	1,12	4,88	12,7
	48,3	177,8	31,7	73,1		28,4	123,9	5,75
2"	2,375	8,50	1,50	3,62	8	1,00	6,50	22,2
	60,3	215,9	38,1	91,9		25,4	165,1	10,1
2 1/2"	2,875	9,62	1,62	4,12	8	1,12	7,50	30,8
	73,0	244,3	41,1	104,6		28,4	190,5	14,0
3"	3,50	10,50	1,88	5,00	8	1,25	8,00	42,1
	88,9	266,7	47,7	127,0		31,7	203,2	19,1
4"	4,50	12,25	2,12	6,19	8	1,38	9,50	65,9
	114,3	311,1	53,8	157,2		35,0	241,3	29,9
5"	5,563	14,75	2,88	7,31	8	1,62	11,50	129
	141,3	374,6	73,1	185,6		41,1	292,1	58,4
6"	6,625	15,50	3,25	8,50	12	1,50	12,50	158
	168,3	393,7	82,5	215,9		38,1	317,5	71,8
8"	8,625	19,00	3,62	10,62	12	1,75	15,50	269
	219,1	482,6	91,9	269,7		44,4	393,7	122
10"	10,75	23,00	4,25	12,75	12	2,00	19,00	463
	273	584,2	107,9	323,8		50,8	482,6	210
12"	12,75	26,50	4,88	15,00	16	2,12	22,50	696
	323,8	673,1	123,9	381,0		53,8	571,5	316
14"	14,0	29,50	5,25	16,25	16	2,38	25,00	925
	355,6	749,3	133,3	412,7		60,4	635,0	420
16"	16,0	32,50	5,75	18,50	16	2,62	27,75	1229
	406,4	825,5	146,0	469,9		66,5	704,8	558
18"	18,0	36,00	6,38	21,00	16	2,88	30,50	1674
	457,2	914,4	162,0	533,4		73,1	774,7	760
20"	20,0	38,75	7,00	23,00	16	3,12	32,75	2126
	508	984,2	177,8	584,2		79,2	831,8	965
24"	24,0	46,00	8,00	27,25	16	3,62	39,00	3432
	609,6	1168,4	203,2	692,1		91,9	990,6	1558

2500 lb/sq. in.

**Blind Flanges
Blindflansche**



ANSI B 16.5

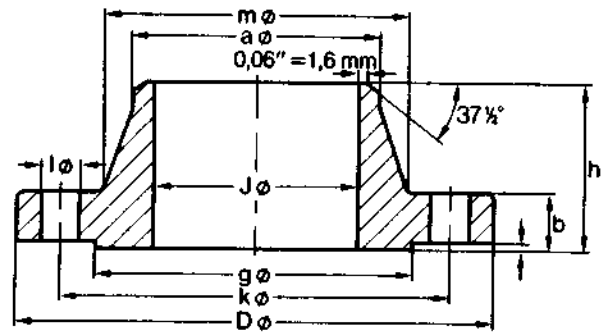
Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nominal Size DN	O D in. mm	D in. mm	b in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84	5.25	1.19	1.38	4	0.88	3.50	6.6
	21.3	133.4	30.2	35.1		22.4	88.5	2.99
3/4"	1.05	5.50	1.25	1.69	4	0.88	3.75	7.7
	26.7	139.7	31.8	42.9		22.4	95.3	3.50
1"	1.315	6.25	1.38	2.00	4	1.00	4.25	10.9
	33.4	158.8	35.1	50.8		25.4	108.0	4.96
1 1/4"	1.66	7.25	1.50	2.50	4	1.12	5.12	16.2
	42.2	184.2	38.1	63.5		28.4	130.0	7.35
1 1/2"	1.90	8.00	1.75	2.88	4	1.25	5.75	22.9
	48.3	203.2	44.5	73.2		31.8	146.1	10.4
2"	2.375	9.25	2.00	3.62	8	1.12	6.75	34.4
	60.3	235.0	50.8	91.9		28.4	171.5	15.6
2 1/2"	2.875	10.50	2.25	4.12	8	1.25	7.75	49.8
	73.0	266.7	57.2	104.6		31.8	196.9	22.6
3"	3.50	12.00	2.62	5.00	8	1.38	9.00	76.7
	88.9	304.8	66.5	127.0		35.1	228.6	34.8
4"	4.50	14.00	3.00	6.19	8	1.62	10.75	119
	114.3	355.6	76.2	157.2		41.1	273.1	53.9
5"	5.563	16.50	3.62	7.31	8	1.88	12.75	200
	141.3	419.1	91.9	185.7		47.8	323.9	90.8
6"	6.625	19.00	4.25	8.50	8	2.12	14.50	311
	168.3	482.6	108.0	215.9		53.8	368.3	141
8"	8.625	21.75	5.00	10.62	12	2.12	17.25	471
	219.1	552.5	127.0	269.7		53.8	438.2	214
10"	10.75	26.50	6.50	12.75	12	2.62	21.25	905
	273	673.1	165.1	323.9		66.5	539.8	411
12"	12.75	30.00	7.25	15.00	12	2.88	24.38	1304
	323.8	762.0	184.2	381.0		73.2	619.3	592

Dimensional Tolerances

Maßtoleranzen

Welding Neck Flanges

Vorschweißflansche



ANSI B 16.5

D	Outside Diameter ¹⁾ Außendurchmesser ¹⁾	When OD is 24" or less When OD is over 24" Außendurchmesser bis 609,6 mm Außendurchmesser über 609,6 mm	±0,06" ±0,12" ±1,6 mm ±3,2 mm
J	Inside Diameter Innendurchmesser	10" and smaller 12" to 18" 20" and larger 10" und kleiner 12" bis 18" 20" und größer	+0,03" +0,06" +0,12" - 0,06" +0,8 mm +1,6 mm +3,2 mm - 1,6 mm
g	Diameter of Contact Face Durchmesser der Dichtleiste	0,03" Raised Face 0,25" Raised Face Tongue and Groove, Male and Female 1,6 mm Dichtleiste 6,4 mm Dichtleiste Feder und Nut, Vor- und Rücksprung	±0,03" ±0,02" ±0,02" ±0,8 mm ±0,5 mm +0,5 mm
a	Diameter of Hub at Point of Welding Ansatzdurchmesser an der Schweißstelle	5" and smaller 6" and larger 5" und kleiner 6" und größer	+0,09" - 0,03" +0,16" - 0,03" +2,4 mm - 0,8 mm +4,0 mm - 0,8 mm
m	Diameter of Hub at Base ¹⁾ Ansatzdurchmesser unten ¹⁾	When Hub Base is 24" or less When Hub Base is over 24" Wenn der Ansatz unten bis 609,6 mm oder kleiner Wenn der Ansatz unten über 609,6 mm	±0,06" ±0,12" ±1,6 mm ±3,2 mm
l	Drilling and Facing Bohren und Bearbeiten	Bolt Circle Diameter k Center-to-center of adjacent bolt holes Max. eccentricity between bolt circle dia k and machined facing diameters: sizes 2 1/2" and smaller sizes 3" and larger Lochkreisdurchmesser k Mittenabstand angrenzender Schraubenlöcher Max. Exzentrizität des Lochkreisdurchmessers k zu den bearbeiteten Durchmessern: NW 2 1/2" und kleiner NW 3" und größer	+0,06" +0,03" 0,03" 0,06" ±1,6 mm ±0,8 mm 0,8 mm 1,6 mm
h	Overall Length of Hub Gesamthöhe	10" and smaller 12" and larger 10" und kleiner 12" und größer	±0,06" ±0,12" ±1,6 mm ±3,2 mm
b	Thickness Blattdicke	18" and smaller 20" and larger 18" und kleiner 20" und größer	+0,12" +0,19" +3,2 mm +4,8 mm

not for flanges with ring joint
nicht für Flansche mit Ringnut

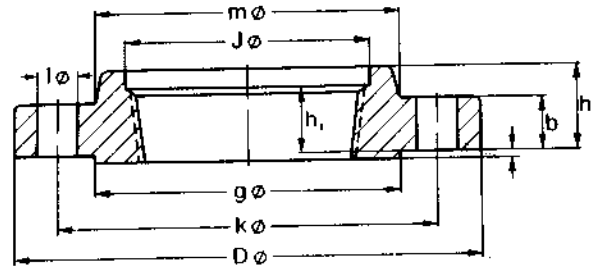
1) This tolerance is not covered by ANSI B 16.5.

1) Diese Toleranzen sind nicht in ANSI B 16.5 enthalten

Dimensional Tolerances Maßtoleranzen

Lap Joint, Slip-on, Threaded and Blind Flanges

Loose Flange, Überschieb-, Gewinde- und Blindflansche



ANSI B 16.5

D	Outside Diameter ¹⁾ Außendurchmesser ¹⁾	When OD is 24" or less When OD is over 24" Außendurchmesser bis 609.6 mm Außendurchmesser über 609.6 mm	±0.06" ±0.12" ±1.6 mm ±3.2 mm
J	Inside Diameter Innendurchmesser	Slip-on and Lap Joint 10" and smaller 12" and larger Threaded Überschieb- und Losflansche 10" und kleiner 12" und größer Gewindeflansche	+0.03" +0.06" Within limits on boring gauge ±0.8 mm ±1.6 mm Innerhalb der Gewindekal.-Toleranz
	Diameter of Counterbore Durchmesser der Eindrehung	Same as for Inside Diameter Wie für den Innendurchmesser	
g	Diameter of Contact Face Durchmesser der Dichtleiste	0.03" Raised Face 0.25" Raised Face Tongue and Groove, Male and Female 1.6 mm Dichtleiste 6.4 mm Dichtleiste Feder und Nut, Vor- und Rücksprung	+0.03 +0.02 +0.02" ±0.8 mm ±0.5 mm ±0.5 mm
m	Outside Diameter of Hub ¹⁾ Ansatz-Außendurchmesser ¹⁾	12" and smaller 14" and larger 12" und kleiner 14" und größer	+0.09" - 0.06" +0.12" ±2.4 mm - 1.6 mm ±3.2 mm
I	Drilling and Facing Bohren und Bearbeiten	Bolt Circle Diameter k Center-to-center of adjacent bolt holes Max. eccentricity between bolt circle dia. k and machined facing diameters: sizes 2 1/2" and smaller sizes 3" and larger Lochkreisdurchmesser k Mittenabstand angrenzender Schraubenlöcher Max. Exzentrizität des Lochkreisdurchmessers k zu den bearbeiteten Durchmessern: NW 2 1/2" und kleiner NW 3" und größer	+0.06" +0.03" 0.03 0.06" ±1.6 mm ±0.8 mm 0.8 mm 1.6 mm
h	Overall Length of Hub Gesamthöhe	18" and smaller 20" and larger 18" und kleiner 20" und größer	+0.12 0.03" +0.19 0.03" ±3.2 mm 0.8 mm ±4.8 mm - 1.6 mm
b	Thickness Blattdicke	18" and smaller 20" and larger 18" und kleiner 20" und größer	+0.12" +0.19" ±3.2 mm ±4.8 mm

1) This tolerance is not covered by ANSI B 16.5.

1) Diese Toleranzen sind nicht in ANSI B 16.5 enthalten

Materials for Flanges according to ASTM Standards

Werkstoffe für Flansche nach amerikanischen Vorschriften

Designation Bezeichnung ASTM	Tensile strength Zugfestigkeit lb/sq. in. N/mm ² mind.	Yield point Streckgrenze lb/sq. in. N/mm ² mind.	Analysis % Chem. Zusammensetzung %			Analysis % Chemische Zusammensetzung in %					Designation Bezeichnung ASTM	
			C	Si	Mn	P max.	S max.	Cr	Ni	Mo		
A 105-77	70000	483	max. 0.35	max. 0.35	0.60-1.05	0.040	0.050	-	-	-	-	A 105-77
A 181-77			for General Service für allgemeinen Bedarf									A 181-77
Class 60	60000	414	max. 0.35	max. 0.35	max. 1.10	0.050	0.050	-	-	-	-	Class 60
Class 70	70000	483	max. 0.35	max. 0.35	max. 1.10	0.050	0.050	-	-	-	-	Class 70
A 182-78			Ferritic Steels for High-Temperature Service Ferritische Stähle für hohe Temperaturen									A 182-78
Grade F 1	70000	483	max. 0.28	max. 0.35	0.60-0.90	0.045	0.045	-	-	-	0.44-0.65	Grade F 1
Grade F 2	70000	483	max. 0.21	max. 0.35	0.30-0.80	0.040	0.040	0.50-0.81	-	-	0.44-0.65	Grade F 2
Grade F 5	70000	483	max. 0.15	max. 0.50	0.30-0.60	0.030	0.030	4.00-6.00	max. 0.50	-	0.44-0.65	Grade F 5
Grade F 5a	90000	621	max. 0.25	max. 0.50	max. 0.60	0.040	0.030	4.00-6.00	max. 0.50	-	0.44-0.65	Grade F 5a
Grade F 9	85000	586	max. 0.15	max. 1.00	0.30-0.60	0.030	0.030	8.00-10.00	-	-	0.90-1.10	Grade F 9
Grade F 11	70000	483	0.10-0.20	0.50-1.00	0.30-0.80	0.040	0.040	1.00-1.50	-	-	0.44-0.65	Grade F 11
Grade F 12	70000	483	0.10-0.20	0.10-0.60	0.30-0.80	0.040	0.040	0.80-1.25	-	-	0.44-0.65	Grade F 12
Grade F 22	75000	517	max. 0.15	max. 0.50	0.30-0.60	0.040	0.040	2.00-2.50	-	-	0.87-1.13	Grade F 22
A 182-78			Austenitic Steels for High-Temperature Service Austenitische Stähle für hohe Temperaturen									A 182-78
Grade F 304	75000	517	max. 0.08	max. 1.00	max. 2.00	0.040	0.030	18.0-20.0	8.0-11.0	-	-	Grade F 304
Grade F 304 H	75000	517	0.04-0.10	max. 1.00	max. 2.00	0.040	0.030	18.0-20.0	8.0-11.0	-	-	Grade F 304 H
Grade F 304 L	70000	483	max. 0.035	max. 1.00	max. 2.00	0.040	0.030	18.0-20.0	8.0-13.0	-	-	Grade F 304 L
Grade F 310	75000	517	max. 0.15	max. 1.00	max. 2.00	0.040	0.030	24.0-26.0	19.0-22.0	-	-	Grade F 310
Grade F 316	75000	517	max. 0.08	max. 1.00	max. 2.00	0.040	0.030	16.0-18.0	10.00-14.00	2.00-3.00	-	Grade F 316
Grade F 316 H	75000	517	0.04-0.10	max. 1.00	max. 2.00	0.040	0.030	16.0-18.0	10.00-14.00	2.00-3.00	-	Grade F 316 H
Grade F 316 L	70000	483	max. 0.035	max. 1.00	max. 2.00	0.040	0.030	16.0-18.0	10.00-15.00	2.00-3.00	-	Grade F 316 L
Grade F 321	75000	517	max. 0.08	max. 1.00	max. 2.00	0.030	0.030	min. 17.0	9.0-12.0	-	-	Grade F 321
Grade F 321 H	75000	517	0.04-0.10	max. 1.00	max. 2.00	0.030	0.030	min. 17.0	9.0-12.0	-	-	Grade F 321 H
Grade F 347	75000	517	max. 0.08	max. 1.00	max. 2.00	0.030	0.030	17.0-20.0	9.0-13.0	-	-	Grade F 347
Grade F 347 H	75000	517	0.04-0.10	max. 1.00	max. 2.00	0.030	0.030	17.0-20.0	9.0-13.0	-	-	Grade F 347 H
A 350-77			for Low-Temperature Service für tiefe Temperaturen									A 350-77
Grade LF 1	60000	414	max. 0.30	0.15-0.30	0.75-1.05	0.035	0.040	-	-	-	-	Grade LF 1
Grade LF 2	70000	483	max. 0.30	0.15-0.30	max. 1.35	0.035	0.040	-	-	-	-	Grade LF 2
Grade LF 3	70000	483	max. 0.20	0.20-0.35	max. 0.90	0.035	0.040	-	3.25-3.75	-	-	Grade LF 3

1) 5 x C % ≤ Ti % ≤ 0.60%
 2) 4 x C % ≤ Ti % ≤ 0.60%
 3) 10 x C % ≤ Ta - Nb % ≤ 1.00%
 4) 8 x C % ≤ Ta - Nb % ≤ 1.00%

FORGED STEEL FLANGES

BS 4504

Comparison Chart

Flange Codes

Synoptic Table

Materials Table

Face Dimensions

Flange Dimensions

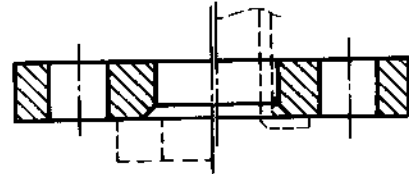
Tolerances

**Comparison of steel flange
descriptions and code numbers specified in
BS 4504 : Section 3.1 : 1989 and
BS 4504 : Part 1 : 1969**

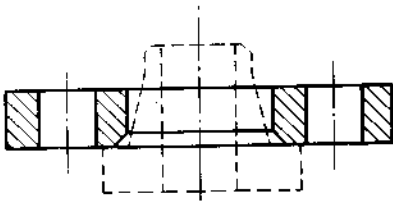
Steel flange descriptions and code numbers specified in BS 4504 : Section 3.1 : 1989 and BS 4504 : Part 1 : 1969		
Description of flange type	Code number in BS 4504 : Part 3 : Section 3.1 : 1989	Type number superseded in BS 4504 : Part 1 : 1969
Plate flange for welding	101	3
Loose plate flange with weld-on plate collar	102 and 132	—
Loose plate flange with weld-on plate collar for lapped pipe end	102 and 133	6
Loose plate flange with weld-neck collar	104 and 134	—
Blank flange	105	8
Weld-neck flange	111	2
Hubbed slip-on flange for welding	112	5
Hubbed threaded flange	113	4
Integral	121	1



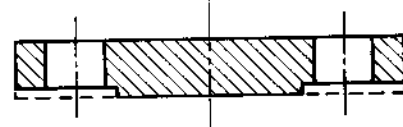
Code 101
Plate flange for welding



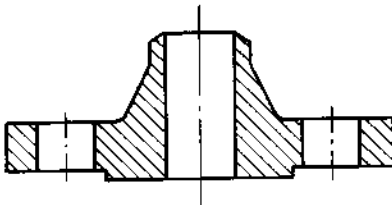
Code 102
Loose plate flange with weld-on
plate collar (see code 132) or
lapped pipe end (see code 133)



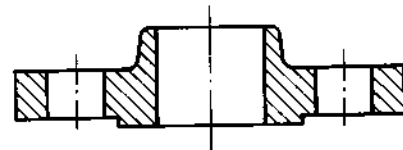
Code 104
Loose flange with welding
neck collar (see code 134)



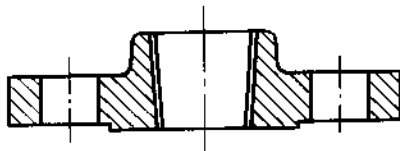
Code 105
Blank flange



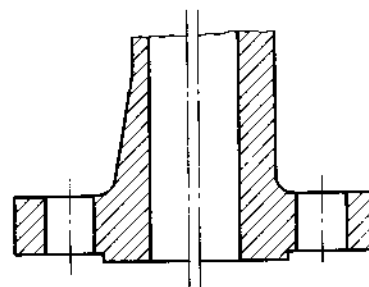
Code 111
Weld-neck flange



Code 112
Hubbed slip-on flange for welding



Code 113
Hubbed threaded flange



Code 121
Integral

NOTE 1. These sketches are diagrammatic only.

NOTE 2. Codes 101 to 105 inclusive comprise flanges that do not incorporate a hub or weld-neck. Codes 111 to 113 inclusive comprise flanges incorporating a hub or weld-neck manufactured from forgings or steel castings. Code 121 is an integral part of some other equipment or component.

NOTE 3. Flanges may be designated by code numbers or by descriptions.

Materials: ferritic steels									
Materials	Plates			Forgings		Castings		Group No.*	
	British Standard	Other standards†		British Standard	Other standards†		Other standards†		
		BS 1501: Part 1 - 151 Grade 360 BS 4360 Grade 43A	ASTM A515 Grade 55 ASTM A283 Grade C		BS 970: Part 1 - 070M20	ASTM A181 Class 60 DIN 17100‡ R.St 37.2			British Standard
Carbon steel	BS 1501: Part 1 - 161 Grade 360 BS 1501: Part 1 - 151 Grade 430A	ASTM A515 Grade 55	BS 1501: Part 1 - 070M20	—	—	—	—	A1	
High grade carbon steel and carbon manganese steels	BS 1501: Part 1 - 164 Grade 360 BS 4360 - Grade 50B BS 1501: Part 1 - 224 Grade 400	ASTM A515 Grade 55 ASTM A283 Grade D ASTM A516 Grade 60	BS 1503 - 224 Grade 410 BS 1503 - 221 Grade 430 BS 1503 - 164 Grade 490	ASTM A350 Grade LF2 DIN 17243 - C22.8 ASTM A105	BS 1504 - 161 Grade 430 LT40 BS 1504 - 161 Grade 480	ASTM A352 Grade LCB ASTM A216 Grade WCB	—	A3	
Carbon molybdenum steel	BS 1501: Part 1 - 240 §	ASTM A204 Grade A	BS 1503 - 245 Grade 420	ASTM A182 Grade F1	BS 1504 - 245	ASTM A217 Grade WC1	—	A4	
1 % chromium ½ % molybdenum steel	BS 1501: Part 2 - 620	ASTM A387 Grade 12 Class 2	BS 1503 - 620 Grade 440	ASTM A182 Grade F12	—	—	—	A5	
1½ % chromium ½ % molybdenum steel	BS 1501: Part 2 - 621	ASTM A387 Grade 11 Class 2	BS 1503 - 621 Grade 460	ASTM A182 Grade F11	BS 1504 - 621	ASTM A217 Grade WC6	—	A5	
2½ % chromium 1 % molybdenum steel	BS 1501: Part 2 - 622 - 515	ASTM A387 Grade 22 Class 2	BS 1503 - 622 Grade 490	ASTM A182 Grade F22	BS 1504 - 622	ASTM A217 Grade WC9	—	A6	

†Refer to BS 1560: Section 3.1 or ASTM specifications for limitations or recommendations in respect to ASTM materials.

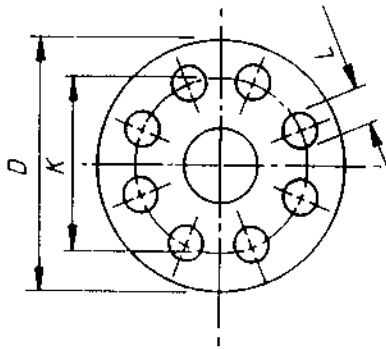
‡The use of DIN 17100 R.St 37.2 is limited to PN 16.

§BS 1501 - 240 material is not suitable for use above 400 °C.

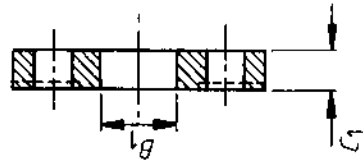
NOTE: Where materials are used below 0 °C refer to the application code.

Dimensions of flange faces

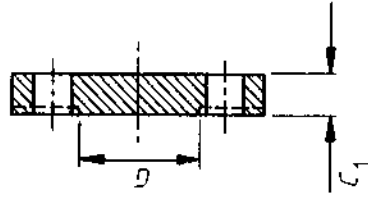
Nominal size DN	d ₁					f ₁	f ₂	f ₃	f ₄	w	x	y	z	α	d ₂
	PN 2.5	PN 6	PN 10	PN 16	PN 25										
	mm	mm	mm	mm	mm										
10	Use PN 6 dimensions	35	158	188	162	40	2		24	34	35	23			
15		40	188	188	162	45			29	39	40	28			
20		50	212	212	188	58			36	50	51	35			
25		60	268	268	278	68			43	57	58	42			
32		70	320	320	335	78		2	51	65	66	50	41° 16'	5	
40		80	370	378	395	88			61	75	76	60			
50		90	430	438	450	102			73	87	88	72			
65		110	482	490	505	122			95	109	110	94			
80		128	532	550	555	138			106	120	121	105			
100		148	585	610	615	162			129	149	150	128			
125		178	685	725	720	188			155	175	176	154			
150		202	795	820	820	218		2.5	183	203	204	182	32° 15'	6	
200		258	900	930	930	268			239	259	260	238			
250		312	1005	1030	1030	312			292	312	313	291			
300		365	1110	1115	1140	378			343	363	364	342			
350		415	1330	1330	1350	438			395	421	422	394			
400		465	1535	1530	1560	482			447	473	474	446			
450		520	1760	1750	1780	532			497	523	524	496			
500		570	1960	1950	1985	585			549	575	576	548			
600		670	2170	2150	2210	685		3	649	675	676	648			
700		775	2370	2370	2370	800			751	777	778	750			
800		880	2570	2570	2570	905			856	882	883	855			
900		980	2780	2780	2780	1005			961	987	988	960			
1000		1080	3000	3000	3000	1110			1062	1092	1094	1060			
1200		1295	3210	3210	3210	1330			1262	1292	1294	1260			
1400		1510	3370	3370	3370	1535		4	1462	1492	1494	1460	28° 39'	8	
1600		1710	3580	3580	3580	1760			1662	1692	1694	1660			
1800		1920	3790	3790	3790	1960			1862	1892	1894	1860			
2000		2125	4120	4120	4120	2170			2062	2092	2094	2060			
2200	2295	2335	—	—	—	2370			—	—	—	—			
2400	2495	2545	—	—	—	2570			—	—	—	—			
2600	2695	2750	—	—	—	2780			—	—	—	—			
2800	2910	2960	—	—	—	3000			—	—	—	—			
3000	3110	3160	—	—	—	3210			—	—	—	—			
3200	3310	3370	—	—	—	—			—	—	—	—			
3400	3510	3580	—	—	—	—			—	—	—	—			
3600	3720	3790	—	—	—	—			—	—	—	—			
3800	3920	—	—	—	—	—			—	—	—	—			
4000	4120	—	—	—	—	—			—	—	—	—			



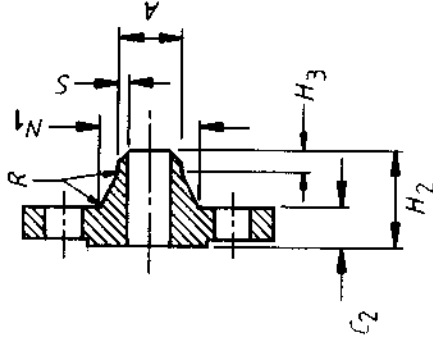
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting Number' for actual number.



Code 101



Code 105



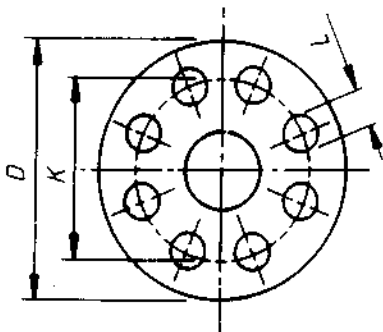
Code 111

NOTE. Dimension N_1 is measured at the intersection of the projections of the hub draft angle and the back face of the flange.

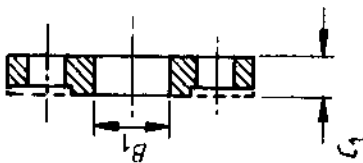
Dimensions of PN 2.5 flanges

Dimensions of PN 2.5 flanges

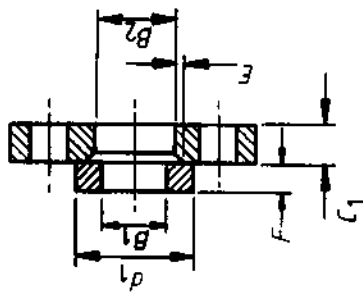
Nominal size	Mating dimensions											Nominal size					
	Outside diameter	Diameter of bolt circles	Diameter of bolt hole	Bolting		Outside diameter of neck	Bore diameter	Flange thickness		Diameter of shoulder	Lengths		Neck diameter	Corner radii	Neck thickness		
				Number	Size			C ₁	C ₂		H ₂					H ₃	R
DN	D	K	L			A	B ₁	C ₁	C ₂	G	H ₂	H ₃	M ₁	R	S	DN	
Codes affected	101, 105, 111											111	111	111	111	111	111
10 to 600	Use PN 6 rating (dimensions for these sizes are identical)																
700	860	810	26	24	M24	711	To be specified by the purchaser	36	26	-	70	16	740	12	To be specified by the purchaser	700	
800	975	920	30	24	M27	813	To be specified by the purchaser	38	26	-	70	16	842	12	To be specified by the purchaser	800	
900	1075	1020	30	24	M27	914	To be specified by the purchaser	40	26	-	70	16	942	12	To be specified by the purchaser	900	
1000	1175	1120	30	28	M27	1016	To be specified by the purchaser	42	26	-	70	16	1045	12	To be specified by the purchaser	1000	
1200	1375	1320	30	32	M27	1220	To be specified by the purchaser	44	26	-	70	16	1245	16	To be specified by the purchaser	1200	
1400	1575	1520	30	36	M27	1420	To be specified by the purchaser	48	26	-	70	16	1445	16	To be specified by the purchaser	1400	
1600	1790	1730	30	40	M27	1620	To be specified by the purchaser	51	26	-	80	20	1645	16	To be specified by the purchaser	1600	
1800	1990	1930	30	44	M27	1820	To be specified by the purchaser	54	26	-	80	20	1845	16	To be specified by the purchaser	1800	
2000	2190	2130	30	48	M27	2020	To be specified by the purchaser	58	26	-	80	22	2045	16	To be specified by the purchaser	2000	
2200	2405	2340	33	52	M30	2220	To be specified by the purchaser	-	28	-	90	25	2248	18	To be specified by the purchaser	2200	
2400	2605	2540	33	56	M30	2420	To be specified by the purchaser	-	28	-	90	25	2448	18	To be specified by the purchaser	2400	
2600	2805	2740	33	60	M30	2620	To be specified by the purchaser	-	28	-	90	25	2648	18	To be specified by the purchaser	2600	
2800	3030	2960	36	64	M33	2820	To be specified by the purchaser	-	30	-	90	25	2848	18	To be specified by the purchaser	2800	
3000	3230	3160	36	68	M33	3020	To be specified by the purchaser	-	30	-	90	25	3050	18	To be specified by the purchaser	3000	
3200	3430	3360	36	72	M33	3220	To be specified by the purchaser	-	30	-	90	25	3250	20	To be specified by the purchaser	3200	
3400	3630	3560	36	76	M33	3420	To be specified by the purchaser	-	32	-	95	28	3450	20	To be specified by the purchaser	3400	
3600	3840	3770	36	80	M33	3620	To be specified by the purchaser	-	32	-	100	28	3652	20	To be specified by the purchaser	3600	
3800	4045	3970	39	80	M36	3820	To be specified by the purchaser	-	34	-	100	28	3852	20	To be specified by the purchaser	3800	
4000	4245	4170	39	84	M36	4020	To be specified by the purchaser	-	34	-	100	28	4052	20	To be specified by the purchaser	4000	



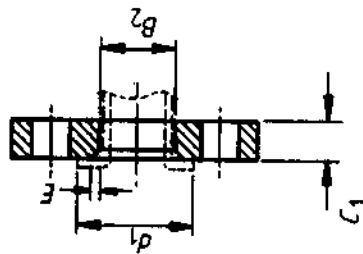
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.



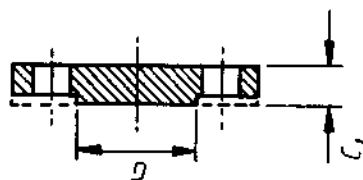
Code 101



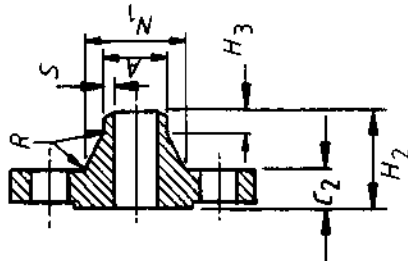
Code 102
and code 132



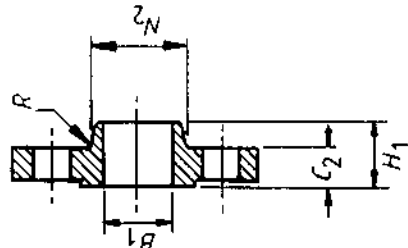
Code 102
and code 133



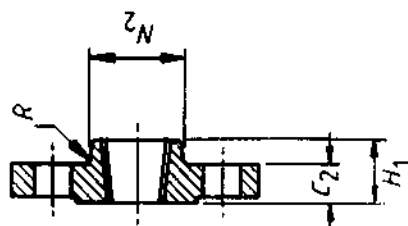
Code 105



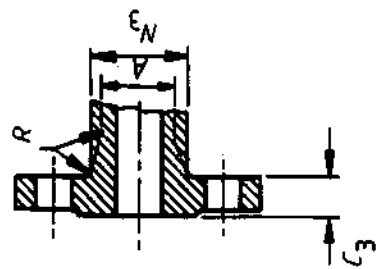
Code 111



Code 112



Code 113



Code 121

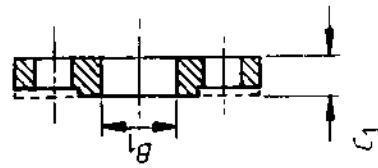
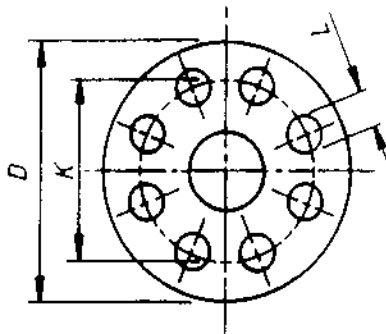
NOTE 1. Dimensions N_1 , N_2 and N_3 are measured at the intersection of the projections of the hub draft angle and the back face of the flange.

Dimensions of PN 6 flanges

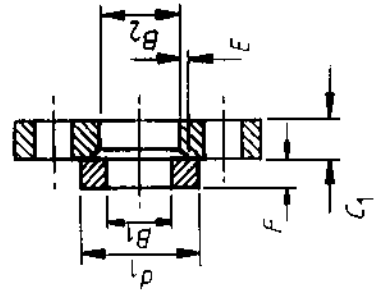
Dimensions of PN 6 flanges

Nominal size	Mating dimensions				Outside diameter of neck	Bore diameters		Flange thickness			Chamfer	Collar thickness	Diameter of shoulder	Lengths			Neck diameters			Corner radii	Neck thickness	Nominal size							
	DN	Outside diameter	Diameter of bolt circle	Diameter of bolt hole		B1	B2	C1	C2	C3				C4	E	F	G	H1	H2				H3	N1	N2	N3	R	S	DN
10	75	50	11	11	18.0	21	12	12	12	105	3	10	105	112	111	111	111	111	112	121	111	111	10						
15	80	55	11	11	22.0	25	12	12	12	105	3	10	105	112	111	111	111	111	112	121	111	111	15						
20	90	65	11	11	27.5	31	14	14	14	105	4	10	105	113	113	113	113	113	113	121	113	113	20						
25	100	75	11	11	34.5	38	14	14	14	105	4	10	105	113	113	113	113	113	113	121	113	113	25						
32	120	90	14	14	43.5	46	16	16	16	105	5	10	105	113	113	113	113	113	113	121	113	113	32						
40	130	100	14	14	49.5	53	16	16	16	105	5	10	105	113	113	113	113	113	113	121	113	113	40						
50	140	110	14	14	61.5	65	16	16	16	105	5	12	105	113	113	113	113	113	113	121	113	113	50						
65	160	130	14	14	77.5	81	16	16	16	105	6	12	105	113	113	113	113	113	113	121	113	113	65						
80	190	150	18	18	90.5	94	18	18	18	105	6	12	105	113	113	113	113	113	113	121	113	113	80						
100	210	170	18	18	116.0	120	18	18	18	105	6	14	105	113	113	113	113	113	113	121	113	113	100						
125	240	200	18	18	141.5	145	20	20	20	105	6	14	105	113	113	113	113	113	113	121	113	113	125						
150	265	225	18	18	170.5	174	20	20	20	105	6	14	105	113	113	113	113	113	113	121	113	113	150						
200	320	280	18	18	221.5	226	22	22	22	105	8	16	105	113	113	113	113	113	113	121	113	113	200						
250	375	335	18	18	276.5	281	24	22	22	105	8	16	105	113	113	113	113	113	113	121	113	113	250						
300	440	395	22	22	327.5	333	24	22	22	105	8	18	105	113	113	113	113	113	113	121	113	113	300						
350	490	445	22	22	359.5	365	26	22	22	105	8	18	105	113	113	113	113	113	113	121	113	113	350						
400	540	495	22	22	411.0	416	28	22	22	105	8	20	105	113	113	113	113	113	113	121	113	113	400						
450	595	550	22	22	462.0	467	30	22	22	105	8	20	105	113	113	113	113	113	113	121	113	113	450						
500	645	600	22	22	513.5	519	30	24	24	105	8	22	105	113	113	113	113	113	113	121	113	113	500						
600	755	705	26	26	616.5	622	32	24	24	105	8	22	105	113	113	113	113	113	113	121	113	113	600						
700	860	810	26	26	711.0	717	34	24	24	105	8	22	105	113	113	113	113	113	113	121	113	113	700						
800	975	920	30	30	813.0	819	36	24	24	105	8	22	105	113	113	113	113	113	113	121	113	113	800						
900	1075	1020	30	30	914.0	920	36	26	26	105	8	22	105	113	113	113	113	113	113	121	113	113	900						
1000	1175	1120	30	30	1016.0	1022	36	26	26	105	8	22	105	113	113	113	113	113	113	121	113	113	1000						
1200	1405	1340	33	33	1220.0	1226	40	28	28	105	8	22	105	113	113	113	113	113	113	121	113	113	1200						
1400	1630	1560	36	36	1420.0	1426	40	32	32	105	8	22	105	113	113	113	113	113	113	121	113	113	1400						
1600	1830	1760	36	36	1620.0	1626	40	34	34	105	8	22	105	113	113	113	113	113	113	121	113	113	1600						
1800	2045	1970	39	39	1820.0	1826	44	36	36	105	8	22	105	113	113	113	113	113	113	121	113	113	1800						
2000	2265	2180	42	42	2020.0	2026	48	38	38	105	8	22	105	113	113	113	113	113	113	121	113	113	2000						
2200	2475	2390	42	42	2220.0	2226	48	40	40	105	8	22	105	113	113	113	113	113	113	121	113	113	2200						
2400	2685	2600	42	42	2420.0	2426	48	42	42	105	8	22	105	113	113	113	113	113	113	121	113	113	2400						
2600	2905	2810	48	48	2620.0	2626	56	46	46	105	8	22	105	113	113	113	113	113	113	121	113	113	2600						
2800	3115	3020	48	48	2820.0	2826	64	48	48	105	8	22	105	113	113	113	113	113	113	121	113	113	2800						
3000	3315	3220	48	48	3020.0	3026	68	50	50	105	8	22	105	113	113	113	113	113	113	121	113	113	3000						
3200	3525	3430	48	48	3220.0	3226	72	54	54	105	8	22	105	113	113	113	113	113	113	121	113	113	3200						
3400	3735	3640	48	48	3420.0	3426	76	56	56	105	8	22	105	113	113	113	113	113	113	121	113	113	3400						
3600	3970	3860	56	56	3620.0	3626	80	60	60	105	8	22	105	113	113	113	113	113	113	121	113	113	3600						

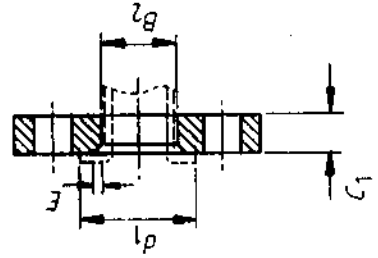
* For code 101 flanges only.



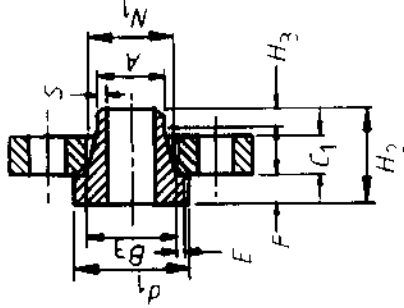
Code 101



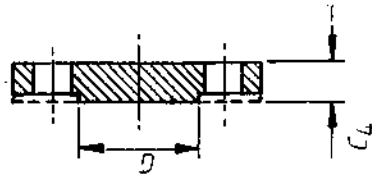
Code 102
and code 132



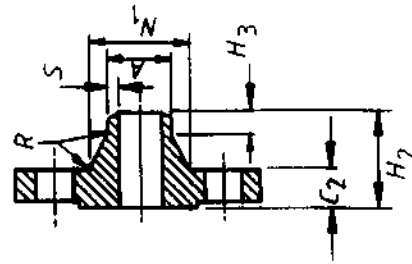
Code 102
and code 133



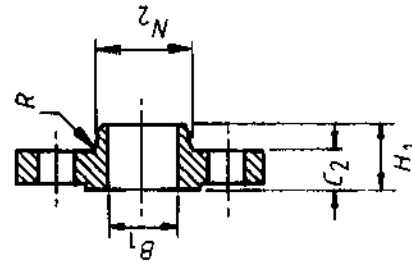
Code 104
and code 134



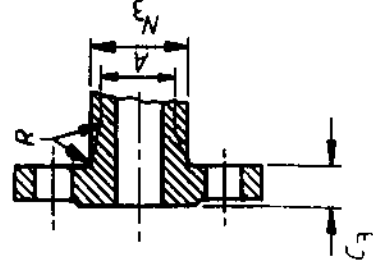
Code 105



Code 111



Code 112

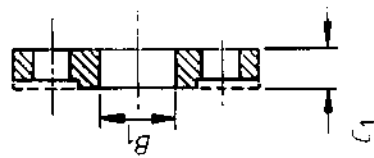
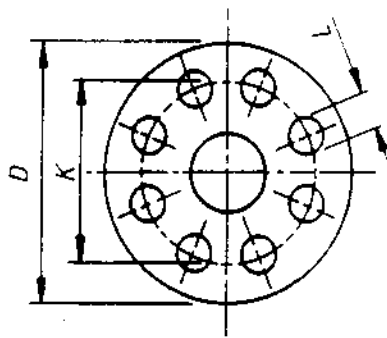


Code 121

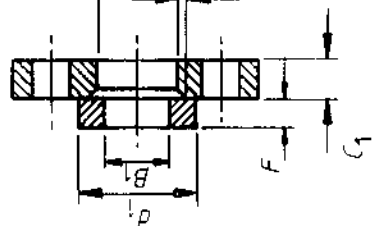
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.

NOTE 1. Dimensions N_1 , N_2 and N_3 are measured at the intersection of the projections of the hub draft angle and the back face of the flange.

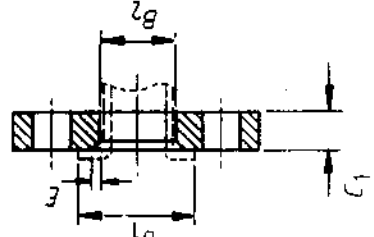
Dimensions of PN 10 flanges



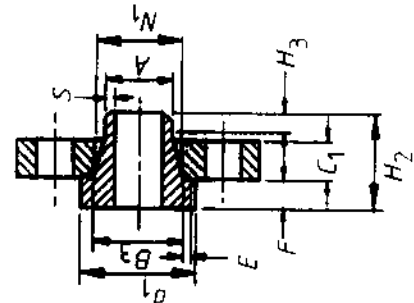
Code 101



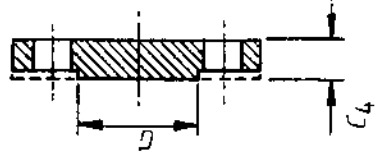
Code 102
and code 132



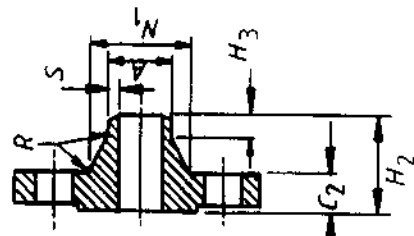
Code 102
and code 133



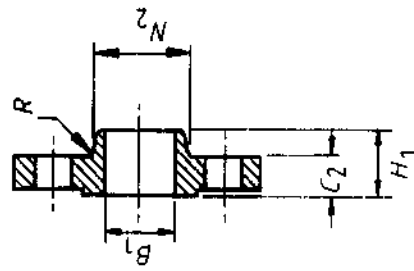
Code 104
and code 134



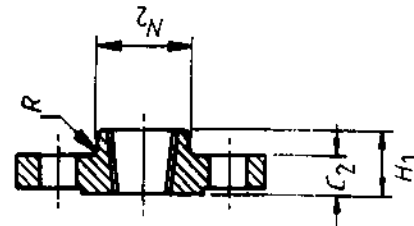
Code 105



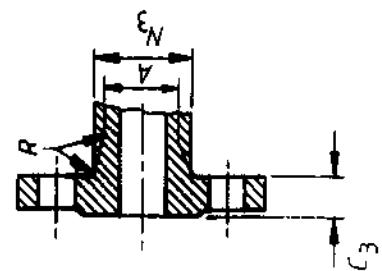
Code 111



Code 112



Code 113



Code 121

This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.

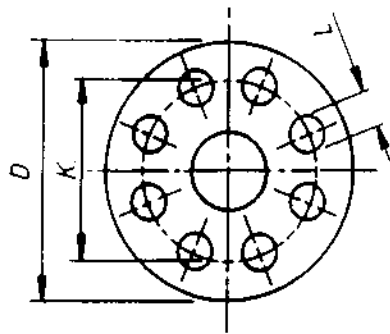
NOTE 1. Dimensions N_1 , N_2 and N_3 are measured at the intersection of the projections of the hub draft angle and the back face of the flange.

Dimensions of PN 16 flanges

Dimensions of PN 16 flanges

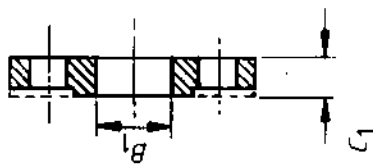
Nominal size	Mating dimensions				Outside diameter of neck	Bore diameters			Flange thickness				Chamfer	Collar thickness	Diameter of shoulder	Lengths			Neck diameters			Radius	Neck thickness	Nominal size									
	DN	Outside diameter	Diameter of bolt circle	Diameter of bolt hole		Bolting Num.	Size	A	B ₁	B ₂	B ₃	C ₁				C ₂	C ₃	C ₄	E	F	G				H ₁	H ₂	H ₃	N ₁	N ₂	N ₃	R	S	DN
101, 102, 104, 105, 111, 112, 113, 121	101, 102, 104, 105, 111, 112, 113, 121	111, 121 134	101 112 132	102 104	101 102 104 113	105 121	102 104	101 102 104 113	105 121	102 104	101 102 104 113	105 121	102 104	101 102 104 113	111 134	111 134	111 134	111 113 113 121	111 134 134	111 134 134	111 134 134	111 112 113 121	111 112 113 121	111 112 113 121	111 112 113 121	111 134 134	111 134 134						
10	90	60	14	M12	4	17.2	18.0	21	31	14	14	14	14	3	12	105	—	20	35	6	28	30	28	3	1.8	10							
15	95	65	14	M12	4	21.3	22.0	25	35	14	14	14	14	3	12	105	—	20	35	6	32	35	32	3	2.0	15							
20	105	75	14	M12	4	26.9	27.5	31	42	16	16	16	16	4	14	105	—	24	38	6	39	45	40	4	2.3	20							
25	115	85	14	M12	4	33.7	34.5	38	49	16	16	16	16	4	14	105	—	24	38	6	46	52	50	4	2.6	25							
32	140	100	18	M16	4	42.4	43.5	47	59	18	16	16	16	5	14	105	—	26	40	6	56	60	60	5	2.6	32							
40	150	110	18	M16	4	48.3	49.5	53	67	18	16	16	16	5	14	105	—	26	42	7	64	70	70	5	2.6	40							
50	165	125	18	M16	4	60.3	61.5	65	77	20	18	18	18	5	16	105	—	28	45	8	74	84	84	5	2.9	50							
65	185	145	18	M16	4T	76.1	77.5	81	96	20	18	18	18	6	16	105	—	32	45	10	92	104	104	6	2.9	65							
80	200	160	18	M16	8	86.9	90.5	94	114	20	20	20	20	6	16	105	—	34	50	10	110	118	120	6	3.2	80							
100	220	180	18	M16	8	114.3	116.0	120	134	22	20	20	20	6	18	105	—	40	52	12	130	140	140	6	3.6	100							
125	250	210	18	M16	8	139.7	141.5	145	162	22	22	22	22	6	18	105	—	44	55	12	158	168	170	6	4.0	125							
150	285	240	22	M20	8	168.3	170.5	174	188	24	22	22	22	6	20	105	—	44	55	12	184	195	190	8	4.5	150							
200	340	295	22	M20	12	219.1	221.5	226	240	26	24	24	24	6	20	105	—	44	62	16	234	246	246	8	5.6	200							
250	405	355	26	M24	12	273.0	276.5	281	294	29	26	26	26	8	22	105	—	46	70	16	288	298	296	10	6.3	250							
300	460	410	26	M24	12	323.9	327.5	333	348	32	28	28	28	8	24	105	—	46	78	16	342	350	350	10	7.1	300							
350	520	470	26	M24	16	355.6	359.0	365	400	35	30	30	30	8	26	105	—	57	82	16	390	400	410	10	8.0	350							
400	580	525	30	M27	16	406.4	411.0	418	454	38	32	32	32	8	28	105	—	63	85	16	444	456	456	10	8.0	400							
450	640	585	30	M27	20	457.0	462.0	467	500	42	34	34	34	8	30	105	—	68	87	16	490	502	516	12	8.0	450							
500	715	650	33	M30	20	508.0	513.5	510	556	46	34	36	36	8	32	105	—	73	90	16	546	559	576	12	8.0	500							
600	840	770	36	M33	20	610.0	616.5	622	660	52	36	40	44	8	32	105	—	83	95	18	650	658	690	12	8.8	600							
700	910	840	36	M33	24	711.0	—	—	—	60*	36	42	48	—	—	105	—	83	100	18	750	760	760	12	8.8	700							
800	1025	950	39	M36	24	813.0	—	—	—	68*	38	42	52	—	—	105	—	90	105	20	848	864	862	12	10.0	800							
900	1125	1050	42	M36	28	914.0	—	—	—	76*	40	44	58	—	—	105	—	94	110	20	948	968	962	12	10.0	900							
1000	1255	1170	42	M39	28	1016.0	—	—	—	84*	42	46	64	—	—	105	—	100	120	22	1056	1072	1076	12	10.0	1000							
1200	1485	1390	48	M45	32	1220.0	—	—	—	98*	48	52	76	—	—	105	—	—	—	—	—	—	—	—	—	12.5	1200						
1400	1685	1590	48	M45	36	1420.0	—	—	—	—	52	58	—	—	—	105	—	—	—	—	—	—	—	—	—	14.2	1400						
1600	1930	1820	56	M52	40	1620.0	—	—	—	—	58	64	—	—	—	105	—	—	—	—	—	—	—	—	—	16.0	1600						
1800	2130	2020	56	M52	44	1820.0	—	—	—	—	62	68	—	—	—	105	—	—	—	—	—	—	—	—	—	17.5	1800						
2000	2345	2230	62	M56	48	2020.0	—	—	—	—	66	70	—	—	—	105	—	—	—	—	—	—	—	—	—	20.0	2000						

*For code 101 flanges only.
 †F flanges of nominal size DN 65 can be supplied with 8 bolt holes upon special request by the purchaser.

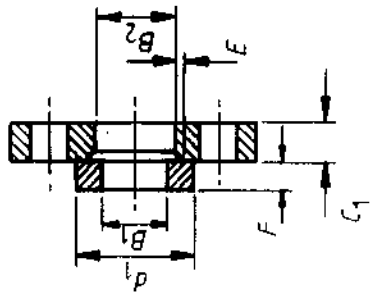


This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.

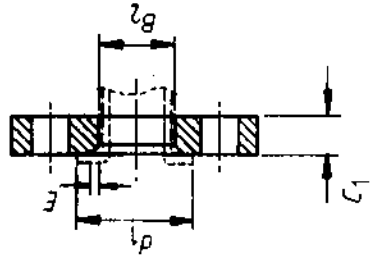
NOTE 1. Dimensions N_1 , N_2 and N_3 are measured at the intersections of the projections of the hub draft angle and the back face of the flange.



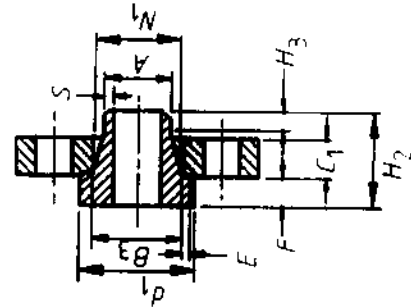
Code 101



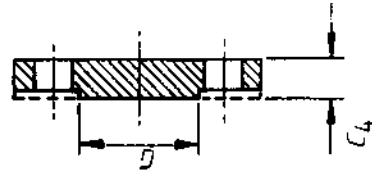
Code 102
and code 132



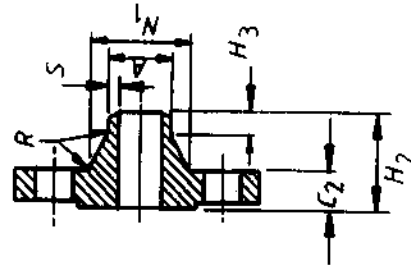
Code 102
and code 133



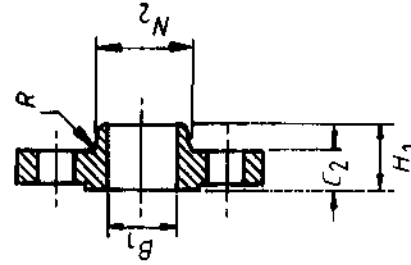
Code 104
and code 134



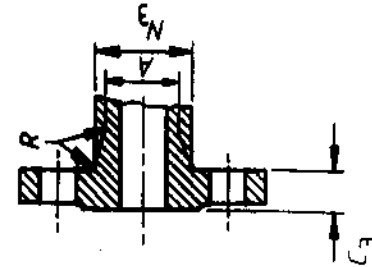
Code 105



Code 111



Code 112

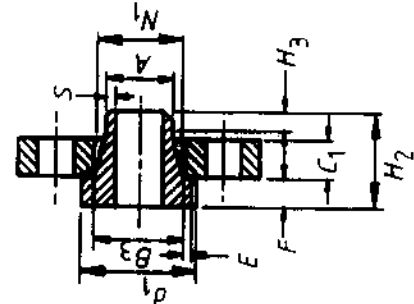
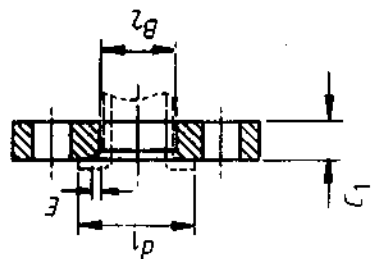
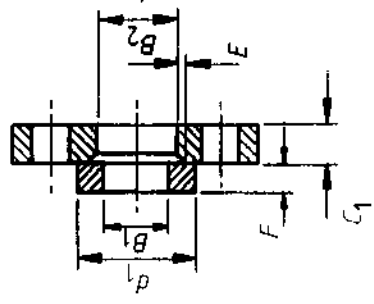
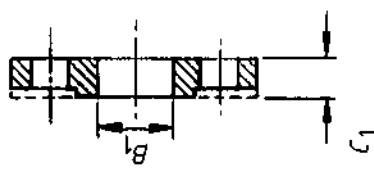
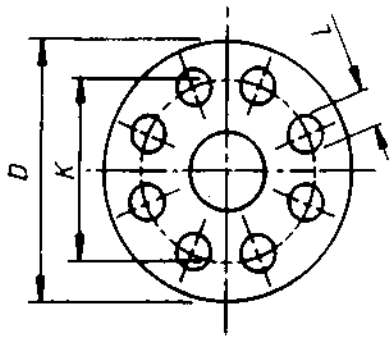


Code 121

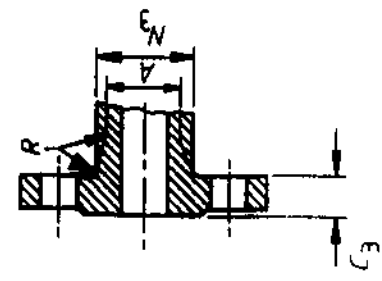
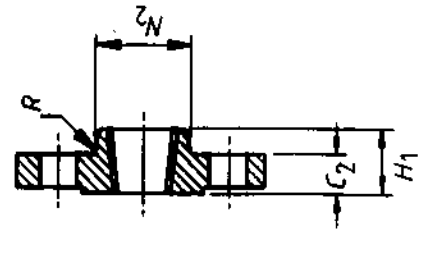
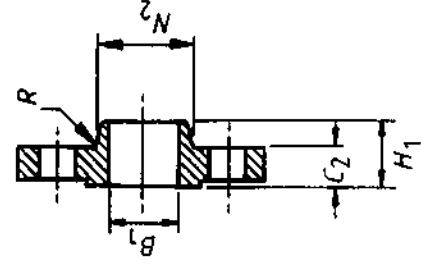
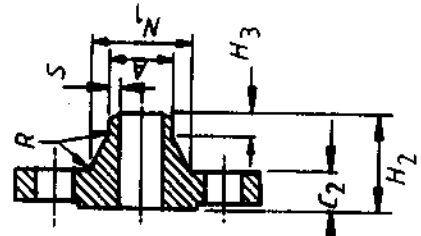
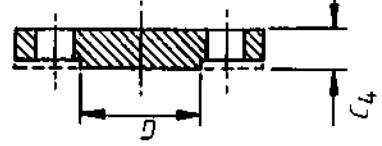
Dimensions of PN 25 flanges

Dimensions of PN 25 flanges

Nominal size	Mating dimensions				Outside diameter of neck	Bore diameters			Flange thickness				Chamfer	Codes thickness	Diameter of shoulder	Lengths			Neck diameters			Corner radii	Neck thickness	Nominal size						
	Diameter	Diameter of bolt circle K	Diameter of bolt hole L	Bolting		B ₁	B ₂	B ₃	C ₁	C ₂	C ₃	C ₄				E	F	G	H ₁	H ₂	H ₃				N ₁	N ₂	N ₃	R	S	DN
DN					A	B ₁	B ₂	B ₃	C ₁	C ₂	C ₃	C ₄	E	F	G	H ₁	H ₂	H ₃	N ₁	N ₂	N ₃	R	S	DN						
Codes affected	101, 102, 104, 105, 111, 112, 121				111, 121, 134	101, 112, 132	102, 104	104	101, 102, 104	101, 102, 104	111, 112, 104	121, 105	105, 104	102, 104	132, 134	105	112	111, 134	111, 134	111, 134	112, 121	121	111, 112, 121	111, 134						
10																														
15																														
20																														
25																														
32																														
40																														
50																														
65																														
80																														
100																														
125																														
150																														
Use PN 40 dimensions																														
200	360	310	26	12	M24	219.1	221.5	226	250	32	30	30	30	6	26	190	52	80	16	244	256	252	8	6.3	200					
250	425	370	30	12	M27	273.0	276.5	281	302	35	32	32	32	8	26	235	60	88	18	296	310	304	10	7.1	250					
300	485	430	30	16	M27	323.9	327.5	333	356	38	34	34	34	8	28	285	67	92	18	350	364	364	10	8.0	300					
350	555	490	33	16	M30	355.6	359.5	365	408	42	38	38	38	8	32	325	72	100	20	398	418	418	10	8.0	350					
400	620	550	36	16	M33	405.4	411.0	416	462	46	40	40	40	8	34	375	78	110	20	452	472	472	10	8.8	400					
450	670	600	36	20	M33	457.0	462.0	467	510	50	42	42	42	8	36	425	84	110	20	500	520	520	12	8.8	450					
500	730	660	36	20	M33	508.0	513.5	519	568	56	44	44	44	8	38	475	90	125	20	558	580	580	12	10.0	500					
600	845	770	39	20	M36	610.0	616.5	622	670	68	46	46	46	8	40	575	100	125	20	660	684	684	12	11.0	600					
700	960	875	42	24	M39	711.0	-	-	-	46	50	50	50	-	-	-	-	125	20	760	780	780	12	12.5	700					
800	1085	990	48	24	M45	813.0	-	-	-	50	54	54	54	-	-	-	-	135	22	864	-	-	12	14.2	800					
900	1185	1090	48	28	M45	914.0	-	-	-	54	58	58	58	-	-	-	-	145	24	968	-	-	12	16.0	900					
1000	1320	1210	56	28	M52	1016.0	-	-	-	58	62	62	62	-	-	-	-	155	24	1070	-	-	12	17.5	1000					
1200	1530	1420	56	32	M52	1220.0	-	-	-	70	70	70	70	-	-	-	-	-	-	-	-	-	12	-	1200					
1400	1755	1640	62	36	M56	1420.0	-	-	-	-	76	76	76	-	-	-	-	-	-	-	-	12	-	-	1400					
1600	1975	1860	62	40	M56	1620.0	-	-	-	-	84	84	84	-	-	-	-	-	-	-	-	12	-	-	1600					
1800	2185	2070	70	44	M64	1820.0	-	-	-	-	90	90	90	-	-	-	-	-	-	-	-	15	-	-	1800					
2000	2425	2300	70	48	M64	2020.0	-	-	-	-	96	96	96	-	-	-	-	-	-	-	-	15	-	-	2000					



This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.



NOTE 1. Dimensions N_1 , N_2 and N_3 are measured at the intersections of the projections of the hub draft angle and the back face of the flange.

Dimensions of PN 40 flanges

Dimensions of PN 40 flanges

Nominal size	Mating dimensions				Outside diameter of neck	Bore diameters			Flange thickness			Chamfer	Collar and stud thickness	Diameter of shoulder	Lengths			Neck diameters			Radius	Neck thickness	Nominal size								
	DN	D	K	L		A	B ₁	B ₂	B ₃	C ₁	C ₂				C ₃	C ₄	E	F	G	H ₁				H ₂	H ₃	N ₁	N ₂	N ₃	R	S	DN
					111, 121 134	101 112 132	102	104	101 102 104	111 112 104	111 112 104	121 113	105	102 104	132 134	105	112 113	111 134	111 134	111 134	112 113	121	111 112 113 121	111 134							
10	90	60	14	14	mm	18.0	21	31	14	16	16	16	3	12	mm	22	35	6	28	30	28	3	1.8	10							
15	95	65	14	14	mm	22.0	25	35	14	16	16	16	3	12	mm	22	38	6	32	35	32	3	2.0	15							
20	105	75	14	14	mm	27.5	31	42	16	18	18	18	4	14	mm	26	40	6	40	45	40	4	2.3	20							
25	115	85	14	14	mm	34.5	38	49	16	18	18	18	4	14	mm	28	40	6	46	52	50	4	2.6	25							
32	140	100	18	18	mm	43.5	47	59	18	18	18	18	5	14	mm	30	42	6	56	60	60	5	2.6	32							
40	150	110	18	18	mm	49.5	53	67	18	18	18	18	5	14	mm	32	45	7	64	70	70	5	2.6	40							
50	165	125	18	18	mm	61.5	65	77	20	20	20	20	5	16	mm	34	48	8	74	84	84	5	2.9	50							
65	185	145	18	18	mm	77.5	81	96	22	22	22	22	6	16	mm	38	52	10	92	104	104	6	2.9	65							
80	200	160	18	18	mm	90.5	94	114	24	24	24	24	6	18	mm	40	58	12	110	118	120	6	3.2	80							
100	235	190	22	22	mm	116.0	120	138	26	24	24	24	6	20	mm	44	65	12	134	145	142	6	3.6	100							
125	270	220	26	26	mm	141.5	145	166	28	26	26	26	6	22	mm	48	68	12	162	170	162	6	4.0	125							
150	300	250	26	26	mm	170.5	174	194	30	28	28	28	6	24	mm	52	75	12	190	200	192	8	4.5	150							
200	375	320	30	30	mm	221.5	226	250	36	34	34	34	6	28	mm	52	88	16	244	260	254	8	6.3	200							
250	450	385	33	33	mm	276.5	281	312	42	38	38	38	8	30	mm	60	105	18	306	312	312	10	7.1	250							
300	515	450	33	33	mm	327.5	333	368	48	42	42	42	8	34	mm	67	115	18	362	380	378	10	8.0	300							
350	580	510	36	36	mm	359.5	365	418	54	46	46	46	8	36	mm	72	125	20	408	424	432	10	8.8	350							
400	660	585	39	39	mm	411.0	416	472	60	50	50	50	8	42	mm	78	135	20	462	478	498	10	11.0	400							
450	685	610	39	39	mm	462.0	467	510	66	50	50	50	8	46	mm	84	135	20	500	522	522	12	12.5	450							
500	755	670	42	42	mm	513.5	519	572	72	52	52	52	8	50	mm	90	140	20	562	576	576	12	14.2	500							
600	890	795	48	48	mm	616.5	622	676	84	60	60	60	8	54	mm	100	150	20	666	686	686	12	16.0	600							

Table 14. Tolerances

Dimensions	Flange code	Tolerance	Size
Outside diameter of neck A	111, 121, 134	+0.30	≤ DN 125
		-0	> DN 125 ≤ DN 1200
		+4.8	> DN 125 ≤ DN 1200
		-0	> DN 125 ≤ DN 1200
Bore diameter B_1, B_2, B_3	101, 102, 104, 112, 132,	+0.5	≤ DN 100
		-0	> DN 100 ≤ DN 400
		+1.0	> DN 100 ≤ DN 400
		-0	> DN 400 ≤ DN 800
		+1.8	> DN 400 ≤ DN 800
		-0	> DN 400 ≤ DN 800
Outside diameter D	121	+3.0	> DN 600
		-0	> DN 600
		±4.0	≤ DN 250
		±5.0	> DN 250 ≤ DN 500
		±6.0	> DN 500 ≤ DN 800
		±7.0	> DN 800 ≤ DN 1200
		±8.0	> DN 1200 ≤ DN 1800
		±10.0	> DN 1800 ≤ DN 2000
		±12.0	> DN 2000
		±2.0	≤ DN 150
		±3.0	> DN 150 ≤ DN 500
±5.0	> DN 500 ≤ DN 1200		
±7.0	> DN 1200 ≤ DN 1800		
±10.0	> DN 1800		
Length through hub H_1, H_2, H_3	111, 112, 113, 134	±1.5	≤ DN 80
		±2.0	> DN 80 ≤ DN 250
		±3.0	> DN 250
		+0	≤ DN 50
Neck diameter M_1, M_2, M_3	111, 121, 134	+0	≤ DN 50
		-0	> DN 50 ≤ DN 150
		+0	> DN 150 ≤ DN 300
		-0	> DN 150 ≤ DN 300
		+0	> DN 300 ≤ DN 600
		-0	> DN 300 ≤ DN 600
		+0	> DN 600 ≤ DN 1200
		-0	> DN 600 ≤ DN 1200
		+1.0	≤ DN 50
		-0	> DN 50 ≤ DN 150
		+2.0	> DN 150 ≤ DN 300
-0	> DN 300 ≤ DN 600		
+4.0	> DN 600 ≤ DN 1200		
-0	> DN 1200 ≤ DN 1800		
+16.0	> DN 1200 ≤ DN 1800		
-0	> DN 1800		
+20.0	> DN 1800		

Table 14. (continued)

Dimensions	Flange code	Tolerance	Size
Flange thickness C_1, C_2, C_3, C_4	All codes (machined on both faces)	±1.0	≤ 18 mm thickness
		±1.5	> 18 mm ≤ 50 mm thickness
		±2.0	> 50 mm thickness
		+2.0	≤ 18 mm thickness
Facing diameter d_1	All codes (machined on front face only)	+4.0	> 18 mm ≤ 50 mm thickness
		-1.5	> 50 mm thickness
		+7.0	> 50 mm thickness
		-2.0	> 50 mm thickness
Facing height f_1	All codes (facing type B)	+3.0	≤ DN 250
		-1.0	> DN 250
		+0	2 mm
		-1.0	3 mm
Facing height f_2	All codes (facing types C and E)	+0	3 mm
		-0	4 mm
		+0	5 mm
		-0	8 mm
Facing height f_3	All codes (facing type D)	+0	All sizes
		-0	All sizes
		+0.2	All sizes
		-0	All sizes
Facing height f_4	All codes (facing types D and F)	+0	All sizes
		-0.5	All sizes
		+0.5	All sizes
		-0	All sizes
Facing height f_5	All codes (facing type H)	+0.5	All sizes
		-0	All sizes
		+0.5	All sizes
		-0	All sizes
Facing height f_6	All codes	+0.5	All sizes
		-0	All sizes
		+0	All sizes
		-0.5	All sizes
Diameter of bolt circle K	All codes	±0.9	Bolt sizes M10 to M24
		±1.4	Bolt sizes M27 to M45
		±0.45	Bolt sizes M10 to M24
		±0.7	Bolt sizes M27 to M45
Eccentricity of machined facing diameters	All codes	1.0	≤ DN 100
		2.0	> DN 100
Parallelism between bolting bearing surfaces and flange joining faces	All codes (machined surfaces)	1°	All sizes
		2°	All sizes

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