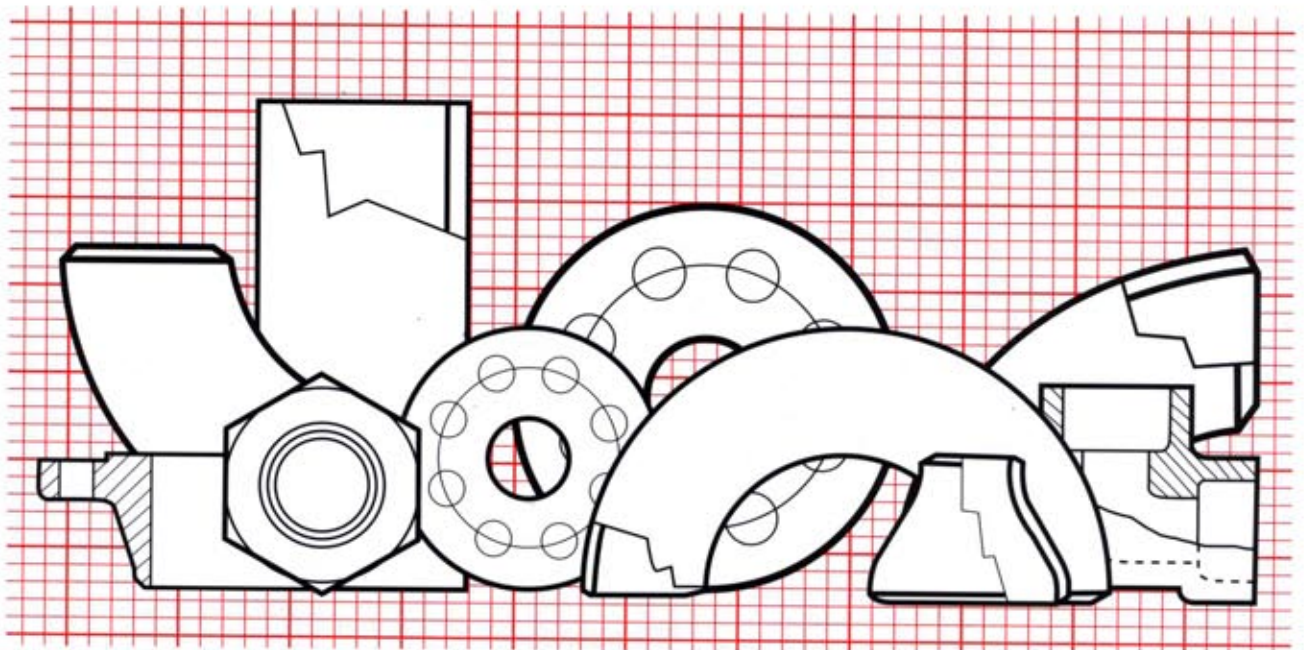




D K Jones Limited

Piping Products

Dimensional Catalogue
Forged Flanges



www.dkjones.com

FORGED STEEL FLANGES

ANSI B 16.5

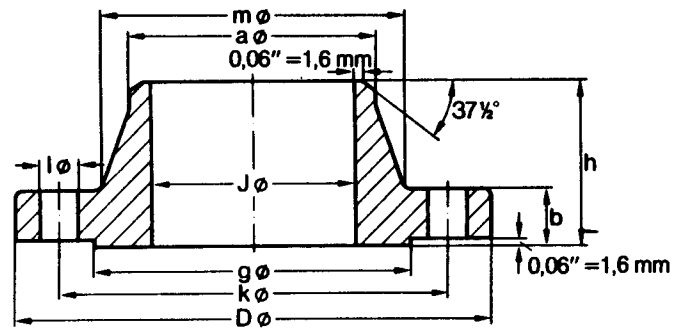
Dimension and Weights

Tolerances

Material Grades

150 lb/sq. in.

Welding Neck Flanges **Vorschweißflansche**

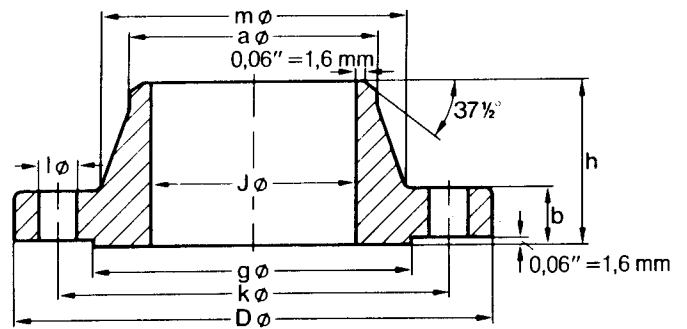


ANSI B 16.5

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	Num- ber 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	To be specified by purchaser Vom Besteller anzugeben	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

300 lb/sq. in.

Welding Neck Flanges Vorschweißflansche

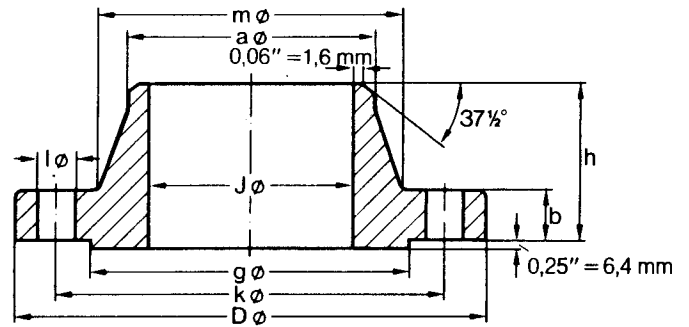


ANSI B 16.5

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	Num- ber 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	To be specified by purchaser Vom Besteller anzugeben	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

600 lb/sq. in.

Welding Neck Flanges
Vorschweißflansche

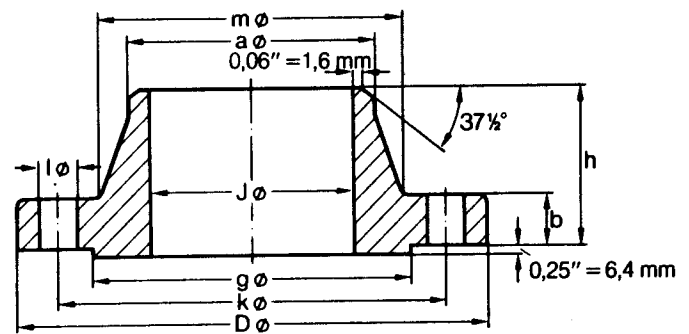


ANSI B 16.5

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

900 lb/sq. in.

Welding Neck Flanges Vorschweißflansche



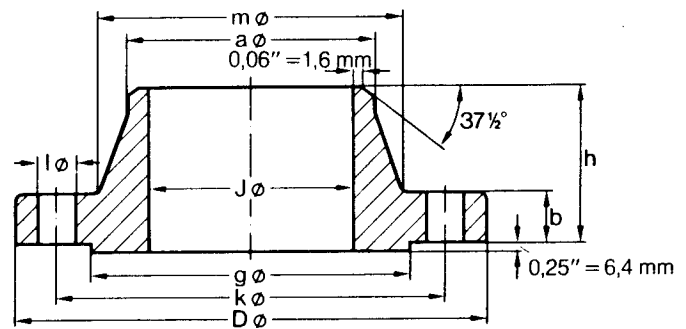
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
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	Num- ber 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											
3"	3,50 88,9	9,50 241,3	To be specified by purchaser Vom Besteller anzugeben	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

1500 lb/sq. in.

Welding Neck Flanges **Vorschweißflansche**

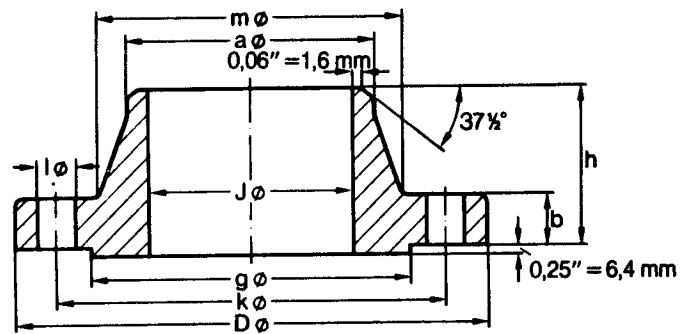


ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	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	Num- ber Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3	4.75 120.6	To be specified by purchaser Vom Besteller anzugeben	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

2500 lb/sq. in.

Welding Neck Flanges Vorschweißflansche



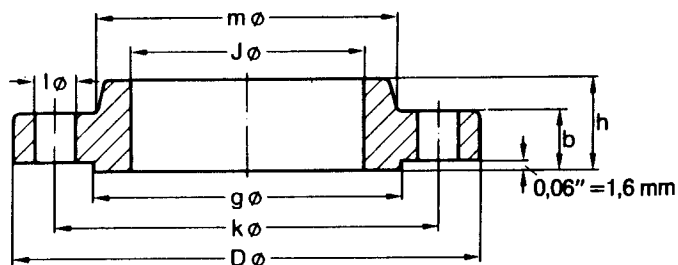
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
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	Num- ber Anzahl	l in. mm	k in. mm	
1/2"	0,84 21,3	5,25 133,4	To be specified by purchaser Vom Besteller anzugeben	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		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



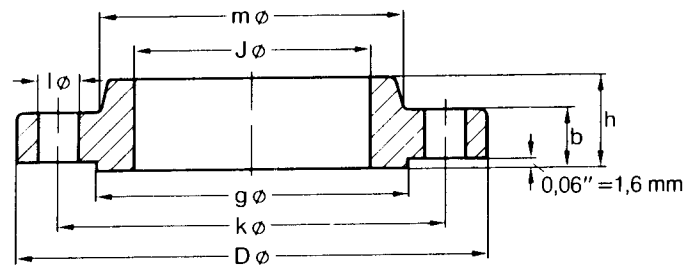
ANSI B 16.5

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	Num- ber 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



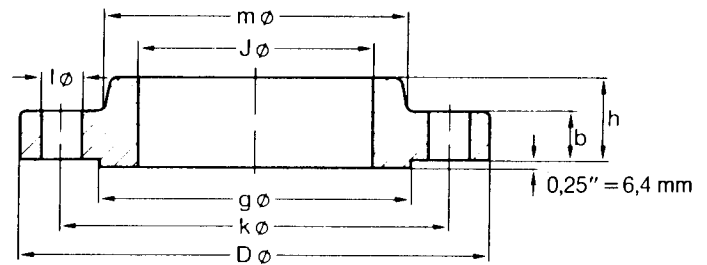
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
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	3.75 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	4.19 106.4	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



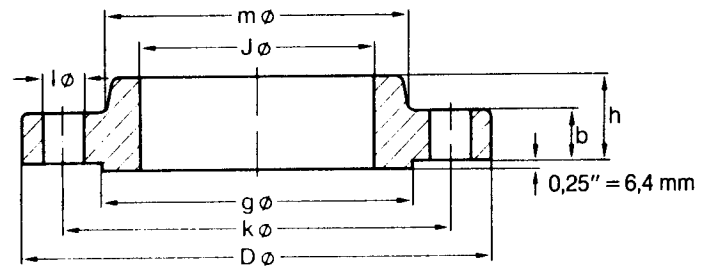
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	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	3.75 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



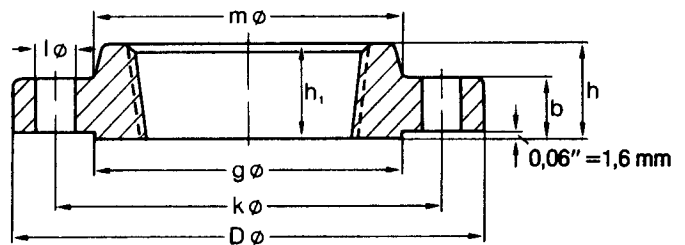
ANSI B 16.5

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

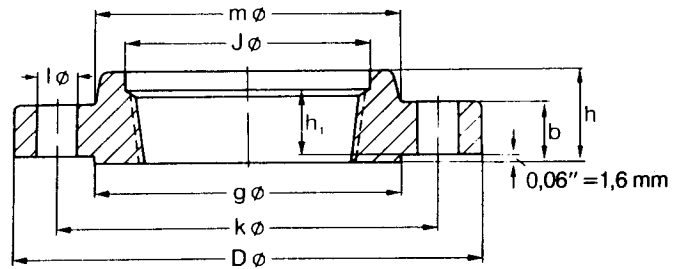
ANSI B 16.5

Pipe Rohr		Flange Flansch				Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
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	Num- ber Anzahl	l in. mm	k in. mm	
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



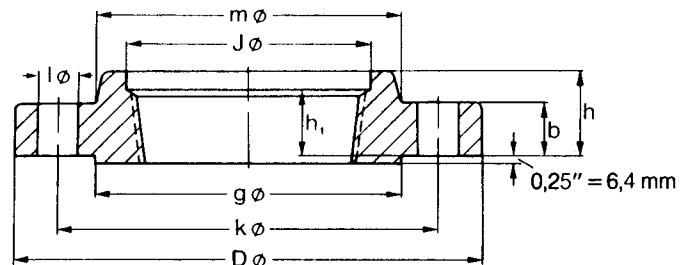
Thread type: Standard taper pipe thread to ANSI B 2.1
Gewindeart: Standard-Rohrgewinde (NPT) nach ANSI B 2.1

ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	O D in. mm	D in. mm	J in. mm	b in. mm	h 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	3.75 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



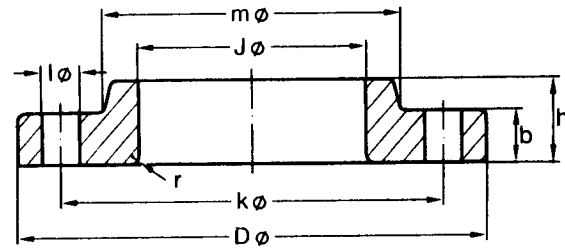
Thread type: Standard taper pipe thread to ANSI B 2.1
Gewindeart: Standard-Rohrgewinde (NPT) nach ANSI B 2.1

ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
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	Num- ber Anzahl	l in. mm	k in. mm	
1/2"	0,84 21,3	3,75 95,3	0,93 23,6	0,56 14,2	0,88 22,4	0,62 15,7	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	1,14 29,0	0,62 15,7	1,00 25,4	0,62 15,7	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	1,41 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 19,1	3,50 88,9	3,3 1,52
1 1/4"	1,66 42,2	5,25 133,4	1,75 44,5	0,81 20,6	1,12 28,4	0,81 20,6	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	1,99 50,5	0,88 22,4	1,25 31,8	0,88 22,4	2,75 69,9	2,88 73,1	4	0,88 22,4	4,50 114,3	6,5 2,96
2"	2,375 60,3	6,50 165,1	2,50 63,5	1,00 25,4	1,44 36,6	1,12 28,4	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	3,00 76,2	1,12 28,4	1,62 41,1	1,25 31,8	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	3,63 92,2	1,25 31,8	1,81 46,0	1,38 35,1	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	4,13 104,9	1,38 35,1	1,94 49,3	1,56 39,6	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	4,63 117,6	1,50 38,1	2,12 53,8	1,62 41,1	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	5,69 144,5	1,75 44,5	2,38 60,5	1,88 47,8	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	6,75 171,5	1,88 47,8	2,62 66,5	2,00 50,8	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	8,75 222,3	2,19 55,6	3,00 76,2	2,25 57,2	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	2,56 65,0	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	12,94 328,7	2,62 66,5	3,62 91,9	2,75 69,9	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	14,19 360,4	2,75 69,9	3,69 93,7	2,88 73,2	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	16,19 411,2	3,00 76,2	4,19 106,4	3,06 77,7	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	18,19 462,0	3,25 82,6	4,62 117,3	3,12 79,2	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	20,19 512,8	3,50 88,9	5,00 127,0	3,25 82,6	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	24,19 614,4	4,00 101,6	5,50 139,7	3,62 91,9	28,25 717,6	27,25 692,2	24	2,00 50,8	33,00 838,2	687 312

150 lb/sq. in.

Lap Joint Flanges Lose Flansche



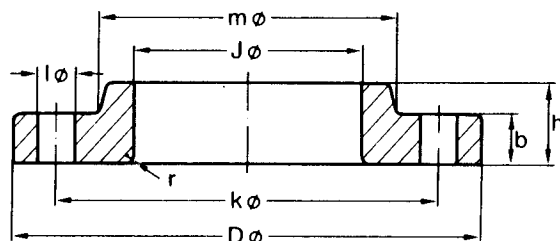
ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
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	
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

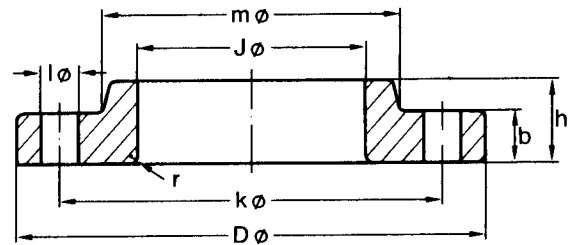


ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
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	
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

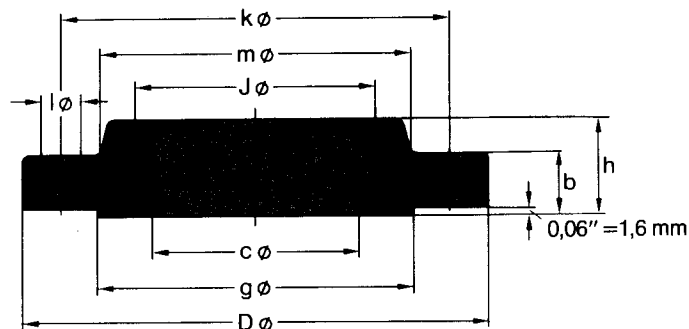


ANSI B 16.5

Pipe Rohr		Flange Flansch					Hub Ansatz	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nom. Size DN	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	3,75 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	Num- ber 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.

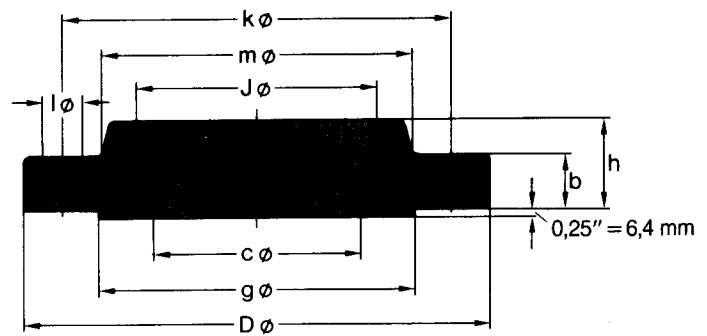
**Socket Welding Flanges
Einsteckschweißflansche**

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	Num- ber 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	3,62 91,3	1,09 27,7	0,82 20,8	0,44 11,1	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 1,15
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 ≈ Pounds Kilo
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	Num- ber Anzahl	l in. mm	k in. mm	
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.

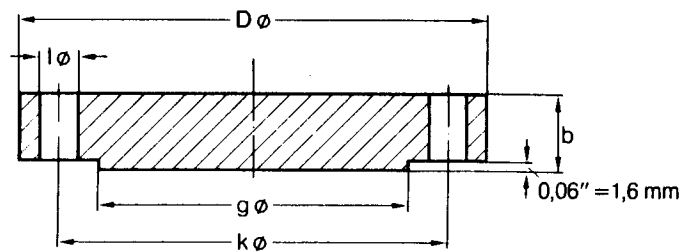
**Socket Welding Flanges
Einsteckschweißflansche**

ANSI B 16.5

Pipe Rohr		Flange Flansch						Hub Ansatz	Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht ≈ Pounds Kilo
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	Num- ber Anzahl	l in. mm	k in. mm	
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

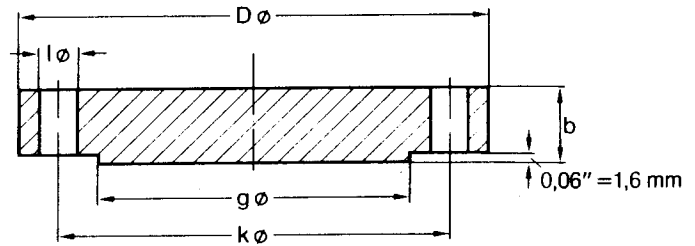


ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template 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	3.50	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

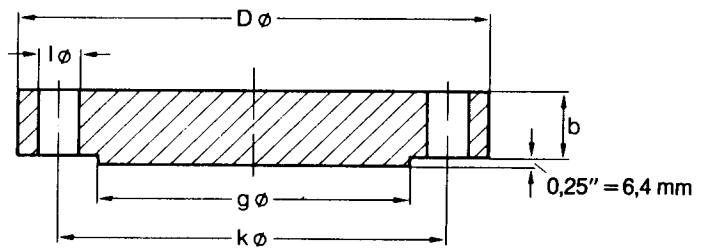


ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
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 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



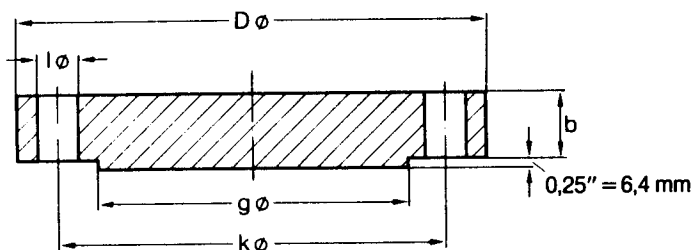
ANSI B 16.5

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 21.3	3.75 95.3	0.56 14.2	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	0.62 15.7	1.69 42.9	4	0.75 19.1	3.25 82.6	2.8 1.28
1"	1.315 33.4	4.88 124.0	0.69 17.5	2.00 50.8	4	0.75 19.1	3.50 88.9	3.5 1.60
1 1/4"	1.66 42.2	5.25 133.4	0.81 20.6	2.50 63.5	4	0.75 19.1	3.88 98.6	4.9 2.23
1 1/2"	1.90 48.3	6.12 155.4	0.88 22.4	2.88 73.2	4	0.88 22.4	4.50 114.3	7.2 3.25
2"	2.375 60.3	6.50 165.1	1.00 25.4	3.62 91.9	8	0.75 19.1	5.00 127.0	9.1 4.15
2 1/2"	2.875 73.0	7.50 190.5	1.12 28.4	4.12 104.6	8	0.88 22.4	5.88 149.4	13.5 6.13
3"	3.50 88.9	8.25 209.6	1.25 31.8	5.00 127.0	8	0.88 22.4	6.62 168.1	18.6 8.44
3 1/2"	4.00 101.6	9.00 228.6	1.38 35.1	5.50 139.7	8	1.00 25.4	7.25 184.2	24.2 11.0
4"	4.50 114.3	10.75 273.1	1.50 38.1	6.19 157.2	8	1.00 25.4	8.50 215.9	38.1 17.3
5"	5.563 141.3	13.00 330.2	1.75 44.5	7.31 185.7	8	1.12 28.4	10.50 266.7	64.8 29.4
6"	6.625 168.3	14.00 355.6	1.88 47.8	8.50 215.9	12	1.12 28.4	11.50 292.1	79.5 36.1
8"	8.625 219.1	16.50 419.1	2.19 55.6	10.62 269.7	12	1.25 31.8	13.75 349.3	130 58.9
10"	10.75 273	20.00 508.0	2.50 63.5	12.75 323.9	16	1.38 35.1	17.00 431.8	215 97.5
12"	12.75 323.8	22.00 558.8	2.62 66.5	15.00 381.0	20	1.38 35.1	19.25 489.0	273 124
14"	14.0 355.6	23.75 603.3	2.75 69.9	16.25 412.8	20	1.50 38.1	20.75 527.1	333 151
16"	16.0 406.4	27.00 685.8	3.00 76.2	18.50 469.9	20	1.62 41.1	23.75 603.3	471 214
18"	18.0 457.2	29.25 743.0	3.25 82.6	21.00 533.4	20	1.75 44.5	25.75 654.1	599 272
20"	20.0 508	32.00 812.8	3.50 88.9	23.00 584.2	24	1.75 44.5	28.50 723.9	769 349
24"	24.0 609.6	37.00 939.8	4.00 101.6	27.25 692.2	24	2.00 50.8	33.00 838.2	1174 533

900 lb/sq. in.

Blind Flanges

Blindflansche



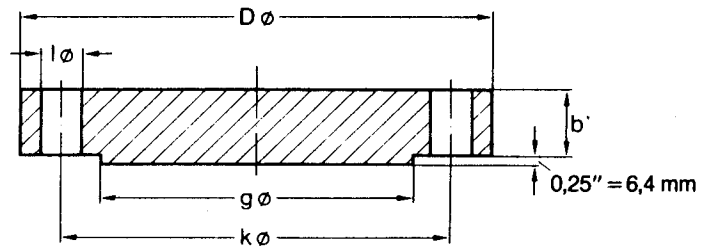
ANSI B 16.5

Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nominal Size DN	OD 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 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	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

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

1500 lb/sq. in.

Blind Flanges
Blindflansche

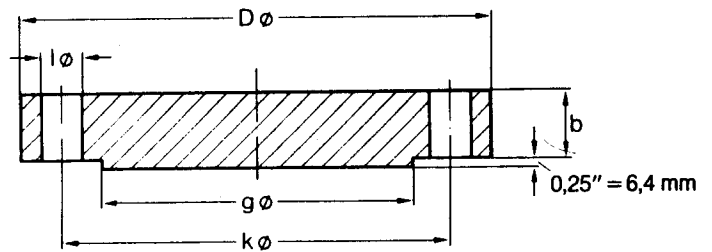


ANSI B 16.5

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 21.3	4.75 120.6	0.88 22.3	1.38 35.0	4	0.88 22.3	3.25 82.5	3.9 1.77
3/4"	1.05 26.7	5.12 130.0	1.00 25.4	1.69 42.9	4	0.88 22.3	3.50 88.9	5.3 2.42
1"	1.315 33.4	5.88 149.3	1.12 28.4	2.00 50.8	4	1.00 25.4	4.00 101.6	7.9 3.57
1 1/4"	1.66 42.2	6.25 158.7	1.12 28.4	2.50 63.5	4	1.00 25.4	4.38 111.2	9.1 4.14
1 1/2"	1.90 48.3	7.00 177.8	1.25 31.7	2.88 73.1	4	1.12 28.4	4.88 123.9	12.7 5.75
2"	2.375 60.3	8.50 215.9	1.50 38.1	3.62 91.9	8	1.00 25.4	6.50 165.1	22.2 10.1
2 1/2"	2.875 73.0	9.62 244.3	1.62 41.1	4.12 104.6	8	1.12 28.4	7.50 190.5	30.8 14.0
3"	3.50 88.9	10.50 266.7	1.88 47.7	5.00 127.0	8	1.25 31.7	8.00 203.2	42.1 19.1
4"	4.50 114.3	12.25 311.1	2.12 53.8	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	7.31 185.6	8	1.62 41.1	11.50 292.1	129 58.4
6"	6.625 168.3	15.50 393.7	3.25 82.5	8.50 215.9	12	1.50 38.1	12.50 317.5	158 71.8
8"	8.625 219.1	19.00 482.6	3.62 91.9	10.62 269.7	12	1.75 44.4	15.50 393.7	269 122
10"	10.75 273	23.00 584.2	4.25 107.9	12.75 323.8	12	2.00 50.8	19.00 482.6	463 210
12"	12.75 323.8	26.50 673.1	4.88 123.9	15.00 381.0	16	2.12 53.8	22.50 571.5	696 316
14"	14.0 355.6	29.50 749.3	5.25 133.3	16.25 412.7	16	2.38 60.4	25.00 635.0	925 420
16"	16.0 406.4	32.50 825.5	5.75 146.0	18.50 469.9	16	2.62 66.5	27.75 704.8	1229 558
18"	18.0 457.2	36.00 914.4	6.38 162.0	21.00 533.4	16	2.88 73.1	30.50 774.7	1674 760
20"	20.0 508	38.75 984.2	7.00 177.8	23.00 584.2	16	3.12 79.2	32.75 831.8	2126 965
24"	24.0 609.6	46.00 1168.4	8.00 203.2	27.25 692.1	16	3.62 91.9	39.00 990.6	3432 1558

2500 lb/sq. in.

**Blind Flanges
Blindflansche**



ANSI B 16.5

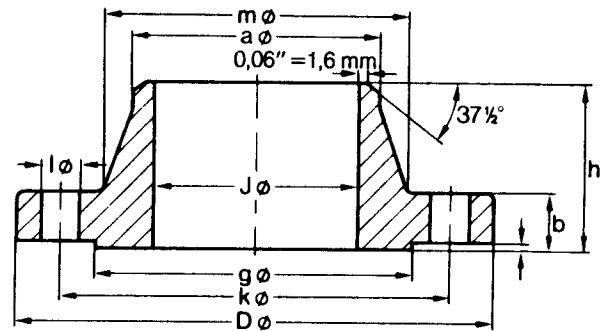
Pipe Rohr		Flange Flansch		Raised Face Leiste	Drilling Template Schraubenlöcher			Approx. Weight Gewicht
Nominal Size DN	O D in. mm	D in. mm	b in. mm	g in. mm	Number Anzahl	l in. mm	k in. mm	≈ Pounds Kilo
1/2"	0.84 21.3	5.25 133.4	1.19 30.2	1.38 35.1	4	0.88 22.4	3.50 88.5	6.6 2.99
3/4"	1.05 26.7	5.50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

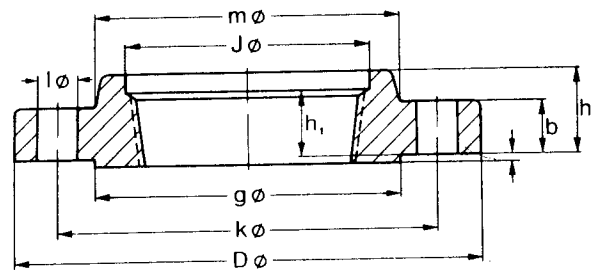
1) This tolerance is not covered by ANSI B 16.5.

1) Diese Toleranzen sind nicht in ANSI B 16.5 enthalten

Dimensional Tolerances Maßtoleranzen

Lap Joint, Slip-on, Threaded and Blind Flanges

Los-Flansche, 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	$\pm 0.06"$ $\pm 0.12"$ ± 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	$\pm 0.09"$ - $0.06"$ $\pm 0.12"$ ± 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	$\pm 0.06"$ $\pm 0.03"$ 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	$\pm 0.12"$ $\pm 0.19"$ ± 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	Tensile strength Zugfestigkeit	Yield point Streckgrenze	Analysis % Chem. Zusammensetzung %	Analysis % Chemische Zusammensetzung in %	Designation Bezeichnung
ASTM	lb/sq. in. min.	lb/sq. in. min.	C	P	ASTM
A 105-77	70000	483	max. 0.35	max. 0.050	A 105-77
A 181-77					A 181-77
Class 60	60000	414	max. 0.35	max. 0.050	Class 60
Class 70	70000	483	max. 0.35	max. 0.050	Class 70
A 182-78					A 182-78
Grade F 1	70000	483	max. 0.28	max. 0.045	Grade F 1
Grade F 2	70000	483	max. 0.21	max. 0.040	Grade F 2
Grade F 5	70000	483	max. 0.15	max. 0.030	Grade F 5
Grade F 5a	90000	621	max. 0.25	max. 0.040	Grade F 5a
Grade F 9	85000	586	max. 0.15	max. 0.030	Grade F 9
Grade F 11	70000	483	max. 0.10-0.20	max. 0.040	Grade F 11
Grade F 12	70000	483	max. 0.10-0.20	max. 0.040	Grade F 12
Grade F 22	75000	517	max. 0.15	max. 0.040	Grade F 22
A 182-78					A 182-78
Grade F 304	75000	517	max. 0.08	max. 0.040	Grade F 304
Grade F 304 H	75000	517	max. 0.04-0.10	max. 0.030	Grade F 304 H
Grade F 304 L	70000	483	max. 0.035	max. 0.030	Grade F 304 L
Grade F 310	75000	517	max. 0.15	max. 0.040	Grade F 310
Grade F 316	75000	517	max. 0.08	max. 0.040	Grade F 316
Grade F 316 H	75000	517	max. 0.04-0.10	max. 0.030	Grade F 316 H
Grade F 316 L	70000	483	max. 0.035	max. 0.030	Grade F 316 L
Grade F 321	75000	517	max. 0.08	max. 0.030	Grade F 321
Grade F 321 H	75000	517	max. 0.04-0.10	max. 0.030	Grade F 321 H
Grade F 347	75000	517	max. 0.08	max. 0.030	Grade F 347
Grade F 347 H	75000	517	max. 0.04-0.10	max. 0.030	Grade F 347 H
A 350-77					A 350-77
Grade LF 1	60000	414	max. 0.30	max. 0.040	Grade LF 1
Grade LF 2	70000	483	max. 0.30	max. 0.035	Grade LF 2
Grade LF 3	70000	483	max. 0.20	max. 0.035	Grade LF 3

1) 5 x C % = Ti %
2) 4 x C % = Ti %
3) 10 x C % = Ta - Nb %
4) 8 x C % = Ta - Nb %

FORGED STEEL FLANGES

BS 4504

Comparison Chart

Flange Codes

Synoptic Table

Materials Table

Face Dimensions

Flange Dimensions

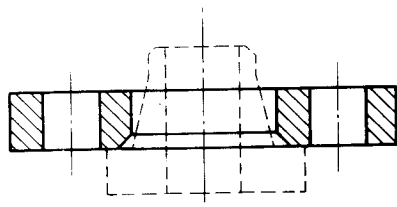
Tolerances

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

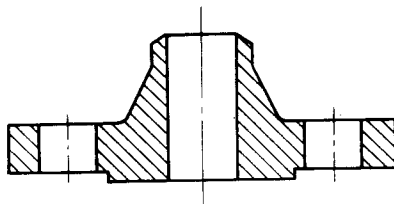
Steel flange descriptions and code numbers specified in BS 4504 : Section 3.1 : 1989 and BS 4504 : Part 1 : 1969		
Description of flange type	Code number in BS 4504 : Part 3 : Section 3.1 : 1989	Type number superseded in BS 4504 : Part 1 : 1969
Plate flange for welding	101	3
Loose plate flange with weld-on 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



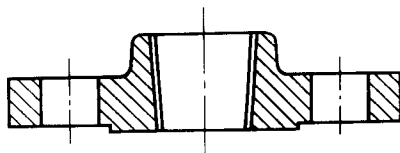
Code 101
Plate flange for welding



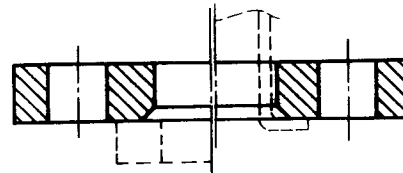
Code 104
Loose flange with welding
neck collar (see code 134)



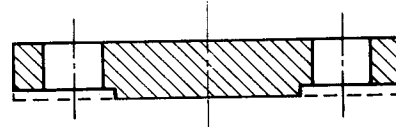
Code 111
Weld-neck flange



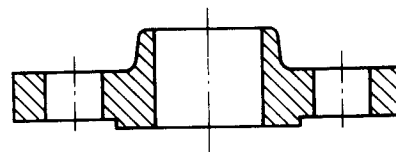
Code 113
Hubbed threaded flange



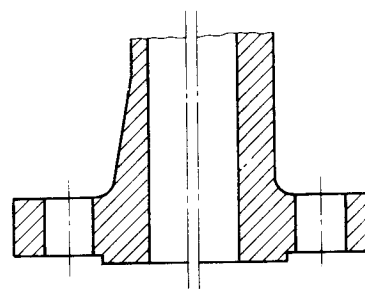
Code 102
Loose plate flange with weld-on
plate collar (see code 132) or
lapped pipe end (see code 133)



Code 105
Blank flange



Code 112
Hubbed slip-on flange for welding



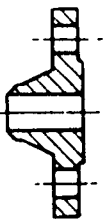
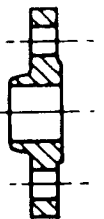
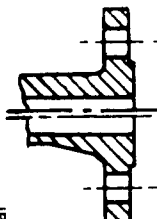
Code 121
Integral

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.

[illegible][illegible]

Flange and code no.	Table	DN		PN	10	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000
		PN	2.5																																								
 Weld neck	8	2.5	Use PN 6																																								
	9	6	Use PN 16																																								
	10	10	Use PN 16																																								
	11	16	Use PN 16																																								
	12	25	Use PN 40																																								
	13	40	Use PN 40																																								
	9	6	Use PN 16																																								
	10	10	Use PN 16																																								
	11	16	Use PN 16																																								
	12	25	Use PN 40																																								
	13	40	Use PN 40																																								
	9	6	Use PN 16																																								
	10	10	Use PN 16																																								
 Hubbed slip-on for welding	9	6	Use PN 16																																								
	10	10	Use PN 16																																								
	11	16	Use PN 16																																								
	12	25	Use PN 40																																								
	13	40	Use PN 40																																								
	9	6	Use PN 16																																								
	10	10	Use PN 16																																								
	11	16	Use PN 16																																								
	12	25	Use PN 40																																								
	13	40	Use PN 40																																								
	9	6	Use PN 16																																								
	10	10	Use PN 16																																								
	 Hubbed threaded	9	6	Use PN 16																																							
10		10	Use PN 16																																								
11		16	Use PN 16																																								
12		25	Use PN 40																																								
13		40	Use PN 40																																								
9		6	Use PN 16																																								
10		10	Use PN 16																																								
11		16	Use PN 16																																								
12		25	Use PN 40																																								
13		40	Use PN 40																																								
9		6	Use PN 16																																								
10		10	Use PN 16																																								
 Integral		9	6	Use PN 16																																							
	10	10	Use PN 16																																								
	11	16	Use PN 16																																								
	12	25	Use PN 40																																								
	13	40	Use PN 40																																								
	9	6	Use PN 16																																								
	10	10	Use PN 16																																								
	11	16	Use PN 16																																								
	12	25	Use PN 40																																								
	13	40	Use PN 40																																								
	9	6	Use PN 16																																								
	10	10	Use PN 16																																								

Materials: ferritic steels							
Materials	Plates		Forgings		Castings		Group No.*
	British Standard	Other standards†	British Standard	Other standards†	British Standard	Other standards†	
Low grade carbon steel	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	—	—	A1
Carbon steel	BS 1501: Part 1 - 161 Grade 360 BS 1501: Part 1 - 151 Grade 430A	ASTM A515 Grade 55	BS 970: Part 1 - 070M20	—	—	—	A2
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 1 % 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

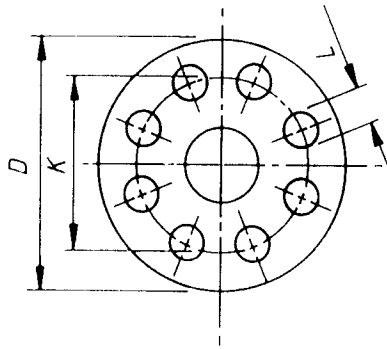
†Refer to BS 1560: Section 3.1 or ASTM specifications for limitations or recommendations in respect to ASTM materials.

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

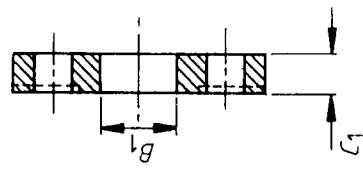
§BS 1501 - 240 material is not suitable for use above 400 °C.

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

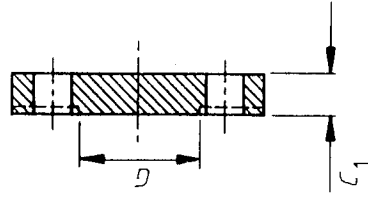
Dimensions of flange faces																
Nominal size DN	d ₁						f ₁	f ₂	f ₃	f ₄	w	x	y	z	α	d ₂
	PN 2.5	PN 6	PN 10	PN 16	PN 25	PN 40										
	mm Use PN 6 dimensions	mm	mm Use PN 40 dimensions	mm	mm	mm										
10		35				40	2	4	3	2	24	34	35	23	41° 16'	5
15		40				45					29	39	40	28		
20		50				58					36	50	51	35		
25		60				68					43	57	58	42		
32		70				78					51	65	66	50		
40		80				88	3	4.5	3.5	2.5	61	75	76	60	32° 15'	6
50		90				102					73	87	88	72		
65		110				122					95	109	110	94		
80		128				138					106	120	121	105		
100		148				162					129	149	150	128		
125		178				188	4	5	4	3	155	175	176	154	27° 24'	7
150		202				218					183	203	204	182		
200		258				285					239	259	260	238		
250		312				345					292	312	313	291		
300		365				410					343	363	364	342		
350		415				465	5	5	4	3	395	421	422	394	28° 39'	8
400		465				505					447	473	474	446		
450		520				555					497	523	524	496		
500		570				615					549	575	576	548		
600		670				720					649	675	676	648		
700		775				820	6	6	5	4	751	777	778	750	28° 39'	8
800		880				930					856	882	883	855		
900		980				1030					961	987	988	960		
1000		1080				1140					1062	1092	1094	1060		
1200		1295				1350					1262	1292	1294	1260		
1400		1510				1560	6	6	5	4	1462	1492	1494	1460	28° 39'	8
1600		1710				1780					1662	1692	1694	1660		
1800		1920				1985					1862	1892	1894	1860		
2000		2125				2210					2062	2092	2094	2060		
2200	2295	2335	2370	—	—	—					6	—	—	—		
2400	2495	2545	2570	—	—	—										
2600	2695	2750	2780	—	—	—										
2800	2910	2960	3000	—	—	—										
3000	3110	3160	3210	—	—	—										
3200	3310	3370	—	—	—	—	6	—	—	—	—	—	—	—	—	
3400	3510	3580	—	—	—	—										
3600	3720	3790	—	—	—	—										
3800	3920	—	—	—	—	—										
4000	4120	—	—	—	—	—										



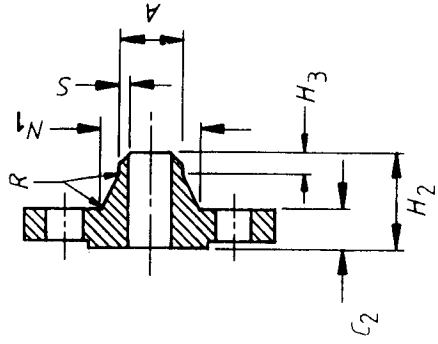
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting Number' for actual number.



Code 101



Code 105



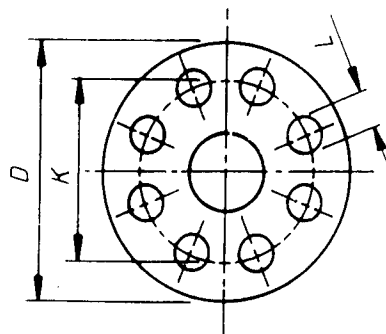
Code 111

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

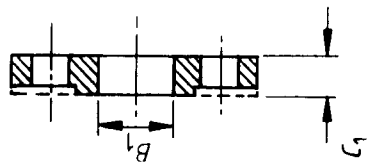
Dimensions of PN 2.5 flanges

Dimensions of PN 2.5 flanges

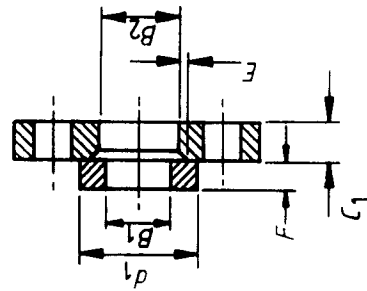
Nominal size	Mating dimensions															Nominal size					
	Outside diameter	Diameter of bolt circle	Diameter of bolt hole	Bolting		Outside diameter of neck	Bore diameter	Flange thickness			Diameter of shoulder	Lengths		Neck diameter	Corner radii		Neck thickness				
				Number	Size			A	B ₁	C ₁		C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



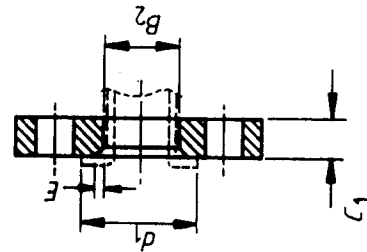
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.



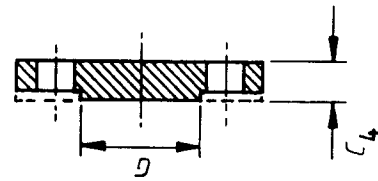
Code 101



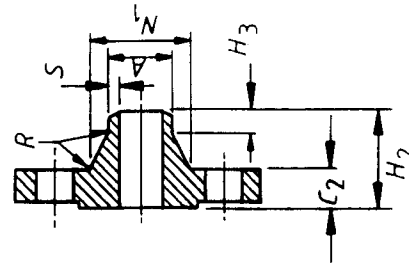
Code 102
and code 132



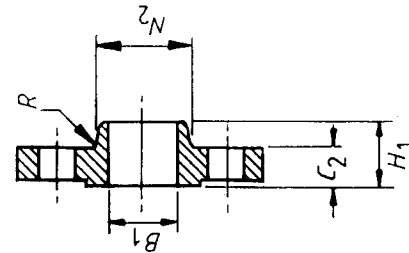
Code 102
and code 133



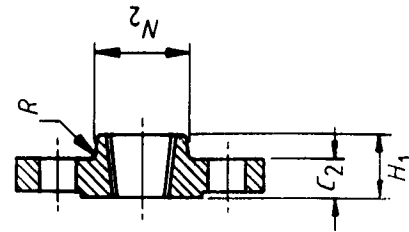
Code 105



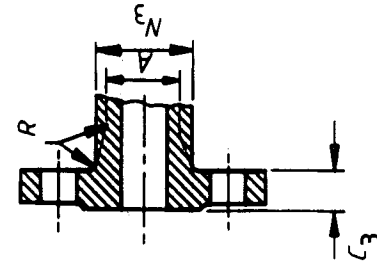
Code 111



Code 112



Code 113



Code 121

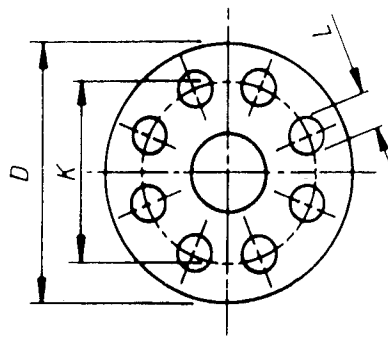
NOTE 1. Dimensions N_1 , N_2 and N_3 are measured at the intersection of the projections of the hub draft angle and the back face of the flange.

Dimensions of PN 6 flanges

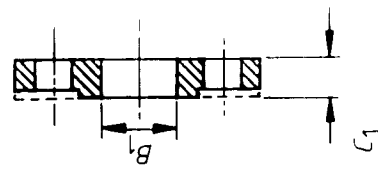
Dimensions of PN 6 flanges

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			
	Outside diameter	Diameter of bolt circle K	Diameter of bolt hole L	Bolting			B ₁	B ₂	C ₁	C ₂ C ₃	C ₄				E	F	G	H ₁	H ₂	H ₃				N ₁	N ₂	N ₃
				Num.	Size																					
DN	D					A	B ₁	B ₂	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			
Castings affected	101, 102, 105, 111, 112, 113, 121					111 121	101 102 132	102	101 102 132	111 112 113 121	105	102	132	105	105	112 113	111	111	111	112 113	121	111 112 113 121	111			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
10	75	50	11	4	M10	17.2	18.0	21	12	12	12	3	10	—	20	28	6	26	25	20	3	1.8	10			
15	80	55	11	4	M10	21.3	22.0	25	12	12	12	3	10	—	20	30	6	30	30	26	3	2.0	15			
20	90	65	11	4	M10	26.9	27.5	31	14	14	14	4	10	—	24	32	6	38	40	34	4	2.3	20			
25	100	75	11	4	M10	33.7	34.5	38	14	14	14	4	10	—	24	35	6	42	50	44	4	2.6	25			
32	120	90	14	4	M12	42.4	43.5	46	16	14	14	5	10	—	26	35	6	55	60	54	5	2.6	32			
40	130	100	14	4	M12	48.3	49.5	53	16	14	14	5	10	—	26	38	7	62	70	64	5	2.6	40			
50	140	110	14	4	M12	60.3	61.5	65	16	14	14	5	12	—	28	38	8	74	80	74	5	2.9	50			
65	160	130	14	4	M12	76.1	77.5	81	16	14	14	6	12	55	32	38	9	88	100	94	6	2.9	65			
80	190	150	18	4	M16	88.9	90.5	94	16	16	16	6	12	70	34	42	10	102	110	110	6	3.2	80			
100	210	170	18	4	M16	114.3	116.0	120	18	16	16	6	14	90	40	45	10	130	130	130	6	3.6	100			
125	240	200	18	8	M16	139.7	141.5	145	20	18	18	6	14	115	44	48	10	155	160	160	6	4.0	125			
150	265	225	18	8	M16	168.3	170.5	174	20	18	18	6	14	140	44	48	12	184	185	182	8	4.5	150			
200	320	280	18	8	M16	219.1	221.5	226	22	20	20	6	16	190	44	55	15	236	240	238	8	5.6	200			
250	375	335	18	12	M16	273.0	276.5	281	24	22	22	8	18	235	44	60	15	290	295	284	10	6.3	250			
300	440	395	22	12	M20	323.9	327.5	333	24	22	22	8	18	285	44	62	15	342	355	342	10	7.1	300			
350	490	445	22	12	M20	355.6	359.5	365	26	22	22	8	18	325	—	62	15	385	—	392	10	7.1	350			
400	540	495	22	16	M20	406.4	411.0	416	28	22	22	8	20	375	—	65	15	438	—	442	10	7.1	400			
450	595	550	22	16	M20	457.0	462.0	467	30	22	24	8	20	425	—	65	15	492	—	494	12	7.1	450			
500	645	600	22	20	M20	508.0	513.5	519	30	24	24	8	22	475	—	68	15	538	—	544	12	7.1	500			
600	755	705	26	20	M24	610.0	616.5	622	32	24	34	8	22	575	—	70	16	640	—	642	12	7.1	600			
700	860	810	26	24	M24	711.0	—	—	40*	24	38	—	—	—	—	70	16	740	—	746	12	7.1	700			
800	975	920	30	24	M27	813.0	—	—	44*	24	42	—	—	—	—	70	16	842	—	850	12	7.1	800			
900	1075	1020	30	24	M27	914.0	—	—	48*	26	46	—	—	—	—	70	16	942	—	950	12	7.1	900			
1000	1175	1120	30	28	M27	1016.0	—	—	52*	26	52	—	—	—	—	70	16	1045	—	1050	12	7.1	1000			
1200	1405	1340	33	32	M30	1220.0	—	—	60*	28	60	—	—	—	—	90	20	1248	—	1264	12	8.0	1200			
1400	1630	1560	36	36	M33	1420.0	—	—	68*	32	68	—	—	—	—	90	20	1452	—	1480	12	8.0	1400			
1600	1830	1760	36	40	M33	1620.0	—	—	76*	34	76	—	—	—	—	90	20	1655	—	1680	12	9.0	1600			
1800	2045	1970	39	44	M36	1820.0	—	—	84*	36	84	—	—	—	—	100	20	1855	—	1878	15	10.0	1800			
2000	2265	2180	42	48	M39	2020.0	—	—	92*	38	92	—	—	—	—	110	25	2058	—	2082	15	11.0	2000			
2200	2475	2390	42	52	M39	2220.0	—	—	—	42	—	—	—	—	—	115	25	2260	—	—	15	—	2200			
2400	2685	2600	42	56	M39	2420.0	—	—	—	44	—	—	—	—	—	125	25	2462	—	—	15	—	2400			
2600	2905	2810	48	60	M45	2620.0	—	—	—	46	—	—	—	—	—	130	25	2665	—	—	15	—	2600			
2800	3115	3020	48	64	M45	2820.0	—	—	—	48	—	—	—	—	—	135	30	2865	—	—	15	—	2800			
3000	3315	3220	48	68	M45	3020.0	—	—	—	50	—	—	—	—	—	140	30	3068	—	—	15	—	3000			
3200	3525	3430	48	72	M45	3220.0	—	—	—	54	—	—	—	—	—	150	30	3272	—	—	15	—	3200			
3400	3735	3640	48	76	M45	3420.0	—	—	—	56	—	—	—	—	—	160	35	3475	—	—	15	—	3400			
3600	3970	3860	56	80	M52	3620.0	—	—	—	60	—	—	—	—	—	165	35	3678	—	—	15	—	3600			

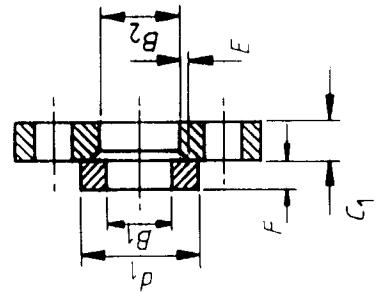
* For code 101 flanges only.



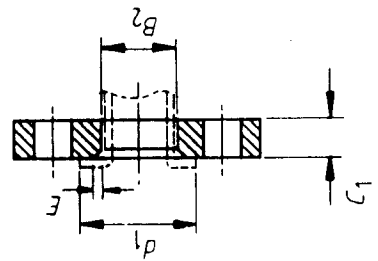
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.



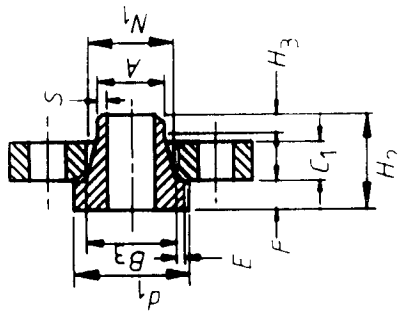
Code 101



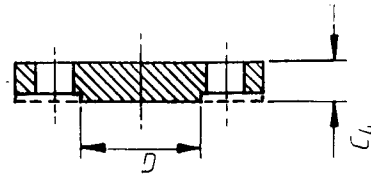
Code 102
and code 132



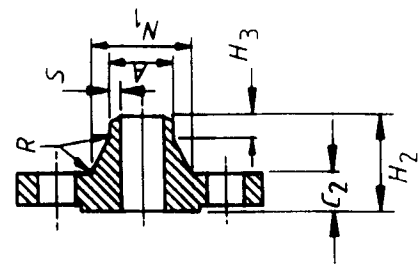
Code 102
and code 133



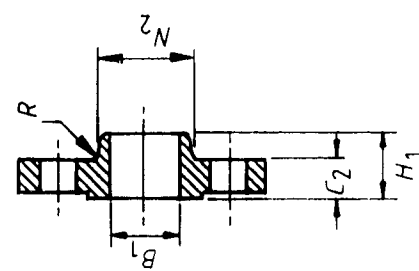
Code 104
and code 134



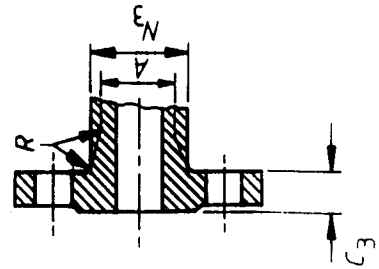
Code 105



Code 111



Code 112



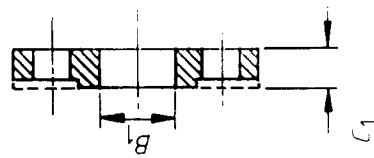
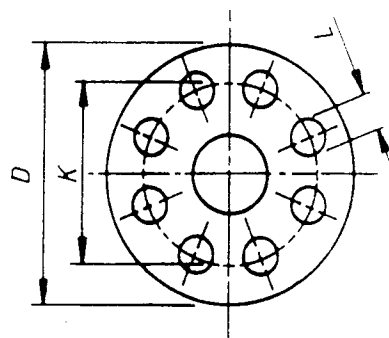
Code 121

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.

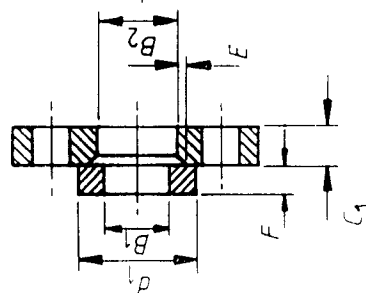
Dimensions of PN 10 flanges

Dimensions of PN 10 flanges

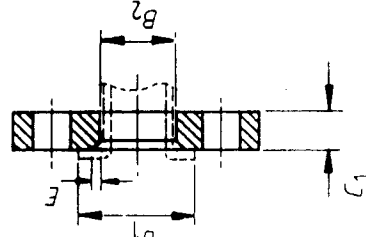
Nomi- nal size	Mating dimensions					Outside diameter of neck	Bore diameters			Flange thickness			Cham- fer	Collar thick- ness	Diameter of shoulder	Lengths			Neck diameters			Corner radii	Neck thick- ness	Nomi- nal size																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	Diameter of bolt circle		Diameter of bolt hole L	Bolting			B ₁	B ₂	B ₃	C ₁	C ₂	C ₃				C ₄	H ₁	H ₂	H ₃	N ₁	N ₂				N ₃																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Outside diameter D	Diameter of bolt circle K		Num- ber	Size																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
DN	101, 102, 104, 105, 111, 112, 121																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</



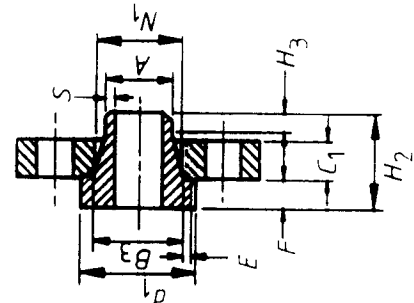
Code 101



Code 102
and code 132

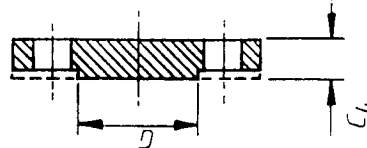


Code 102
and code 133

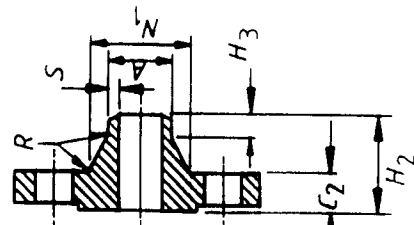


Code 104
and code 134

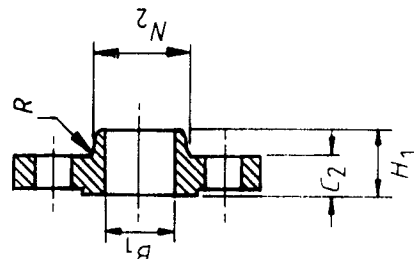
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.



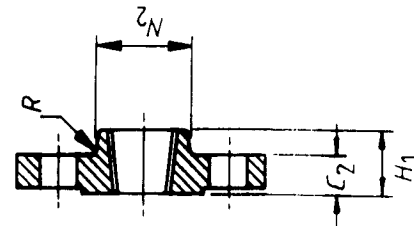
Code 105



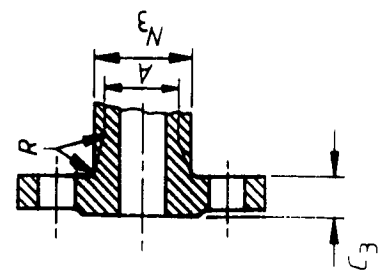
Code 111



Code 112



Code 113



Code 121

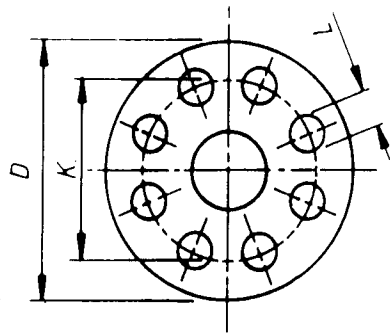
NOTE 1. Dimensions N_1 , N_2 and N_3 are measured at the intersection of the projections of the hub draft angle and the back face of the flange.

Dimensions of PN 16 flanges

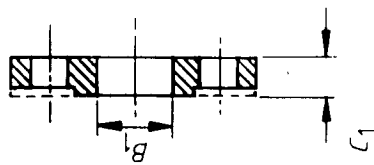
Dimensions of PN 16 flanges

Nominal size DN	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 D	Diameter of bolt circle K	Diameter of bolt hole L	Bolting		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	
				Num-ber	Size																					
Codes affected	101, 102, 104, 105, 111, 112, 113, 121					111, 121 134	101 112 132	102	104	101 102 104	111 112 113	121	105	102 104	132 134	105	112 113	111 134	111 134	111 134	111 134	112 113	121	111 112 113 121	111 134	
10	90	60	14	4	M12	mm 17.2	mm 18.0	mm 21	mm 31	mm 14	mm 14	mm 14	mm 14	mm 3	mm 12	mm —	mm 20	mm 35	mm 6	mm 28	mm 30	mm 28	mm 3	mm 1.8	mm 10	
15	95	65	14	4	M12	mm 21.3	mm 22.0	mm 25	mm 35	mm 14	mm 14	mm 14	mm 14	mm 3	mm 12	mm —	mm 20	mm 35	mm 6	mm 32	mm 35	mm 32	mm 3	mm 2.0	mm 15	
20	105	75	14	4	M12	mm 26.9	mm 27.5	mm 31	mm 42	mm 16	mm 16	mm 16	mm 16	mm 4	mm 14	mm —	mm 24	mm 38	mm 6	mm 39	mm 45	mm 40	mm 4	mm 2.3	mm 20	
25	115	85	14	4	M12	mm 33.7	mm 34.5	mm 38	mm 49	mm 16	mm 16	mm 16	mm 16	mm 4	mm 14	mm —	mm 24	mm 38	mm 6	mm 46	mm 52	mm 50	mm 4	mm 2.6	mm 25	
32	140	100	18	4	M16	mm 42.4	mm 43.5	mm 47	mm 59	mm 18	mm 16	mm 16	mm 16	mm 5	mm 14	mm —	mm 26	mm 40	mm 6	mm 56	mm 60	mm 60	mm 5	mm 2.6	mm 32	
40	150	110	18	4	M16	mm 48.3	mm 49.5	mm 53	mm 67	mm 18	mm 16	mm 16	mm 16	mm 5	mm 14	mm —	mm 26	mm 42	mm 7	mm 64	mm 70	mm 70	mm 5	mm 2.6	mm 40	
50	165	125	18	4	M16	mm 60.3	mm 61.5	mm 65	mm 77	mm 20	mm 18	mm 18	mm 18	mm 5	mm 16	mm —	mm 28	mm 45	mm 8	mm 74	mm 84	mm 84	mm 5	mm 2.9	mm 50	
65	185	145	18	4†	M16	mm 76.1	mm 77.5	mm 81	mm 96	mm 20	mm 18	mm 18	mm 18	mm 6	mm 16	mm 55	mm 32	mm 45	mm 10	mm 92	mm 104	mm 104	mm 6	mm 2.9	mm 65	
80	200	160	18	8	M16	mm 88.9	mm 90.5	mm 94	mm 114	mm 20	mm 20	mm 20	mm 20	mm 6	mm 16	mm 70	mm 34	mm 50	mm 10	mm 110	mm 118	mm 120	mm 6	mm 3.2	mm 80	
100	220	180	18	8	M16	mm 114.3	mm 116.0	mm 120	mm 134	mm 22	mm 20	mm 20	mm 20	mm 6	mm 18	mm 90	mm 40	mm 52	mm 12	mm 130	mm 140	mm 140	mm 6	mm 3.6	mm 100	
125	250	210	18	8	M16	mm 139.7	mm 141.5	mm 145	mm 162	mm 22	mm 22	mm 22	mm 22	mm 6												

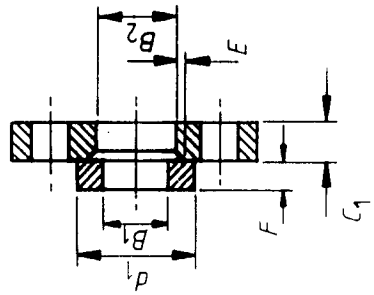
+Flanges of nominal size DN 65 can be supplied with 8 bolt holes upon special request by the purchaser.



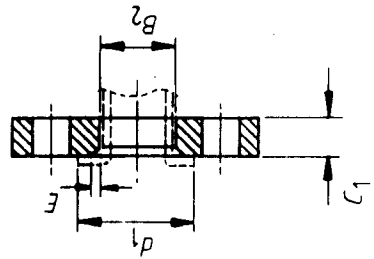
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.



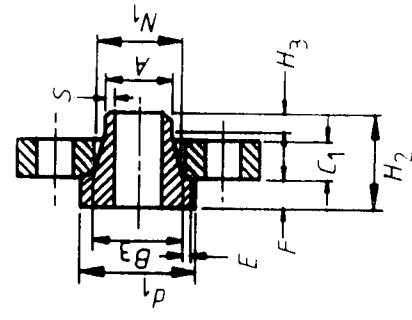
Code 101



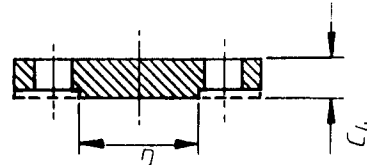
Code 102
and code 132



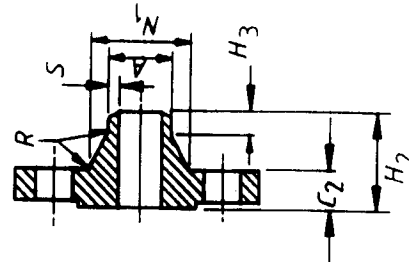
Code 102
and code 133



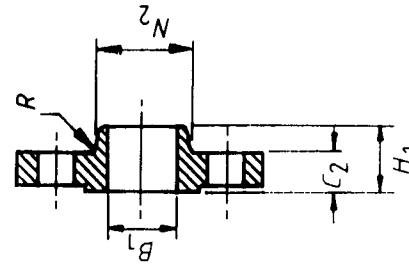
Code 104
and code 134



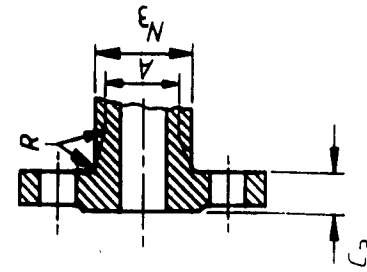
Code 105



Code 111



Code 112



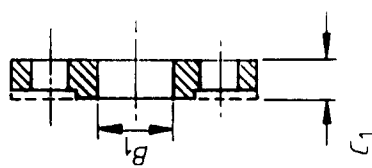
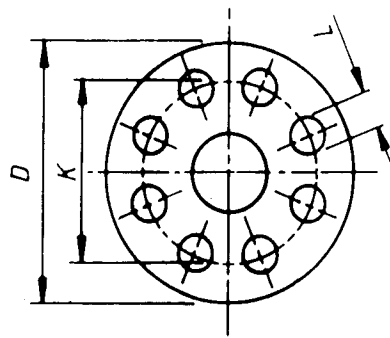
Code 121

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.

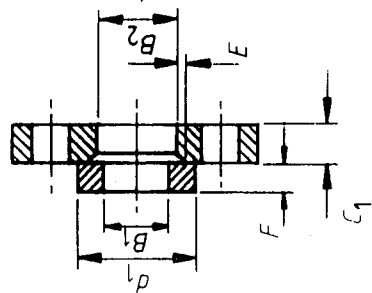
Dimensions of PN 25 flanges

Dimensions of PN 25 flanges

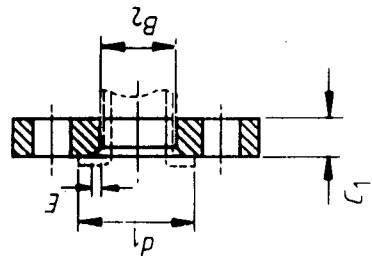
Nomi- nal size DN	Mating dimensions					Outside diameter of neck A	Bore diameters			Flange thickness				Cham- fer E	Codes thick- ness F	Diameter of shoulder G	Lengths			Neck diameters			Corner radii	Neck thick- ness S	Nomi- nal size DN
	Outside Diameter D	Diameter of bolt circle K	Diameter of bolt hole L	Bolting			B ₁	B ₂	B ₃	C ₁	C ₂	C ₃	C ₄				H ₁	H ₂	H ₃	N ₁	N ₂	N ₃			
				Num- ber	Size																				
Codes affect- ed	101, 102, 104, 105, 111, 112, 121					111, 121, 134				101 102 104	111 112 112	121 105		102 104	132 134	105	112 134	111 134		111 112 121					
10																									
15																									
20																									
25																									
32																									
40																									
50																									
65																									
80																									
100																									
125																									
150																									
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	406.4	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	44	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	45	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	54	8	40	575	100	125	20	660	684	684	12	11.0	600
700	960	875	42	24	M39	711.0	—	—	—	—	46	50	—	—	—	—	—	125	20	760	—	780	12	12.5	700
800	1085	990	48	24	M45	813.0	—	—	—	—	50	54	—	—	—	—	—	135	22	864	—	882	12	14.2	800
900	1185	1090	48	28	M45	914.0	—	—	—	—	54	58	—	—	—	—	—	145	24	968	—	982	12	16.0	900
1000	1320	1210	56	28	M52	1016.0	—	—	—	—	58	62	—	—	—	—	—	155	24	1070	—	1086	12	17.5	1000
1200	1530	1420	56	32	M52	1220.0	—	—	—	—	70	—	—	—	—	—	—	—	—	—	—	1296	12	—	1200
1400	1755	1640	62	36	M56	1420.0	—	—	—	—	—	76	—	—	—	—	—	—	—	—	—	1508	12	—	1400
1600	1975	1860	62	40	M56	1620.0	—	—	—	—	—	84	—	—	—	—	—	—	—	—	—	1726	12	—	1600
1800	2185	2070	70	44	M64	1820.0	—	—	—	—	—	90	—	—	—	—	—	—	—	—	—	1920	15	—	1800
2000	2425	2300	70	48	M64	2020.0	—	—	—	—	—	96	—	—	—	—	—	—	—	—	—	2150	15	—	2000



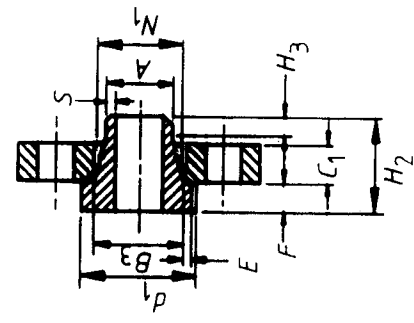
Code 101



Code 102
and code 132

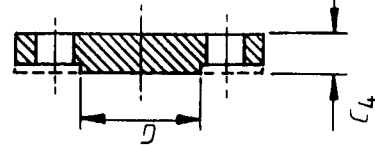


Code 102
and code 133

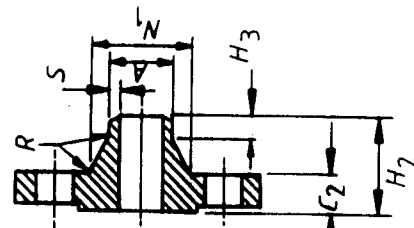


Code 104
and code 134

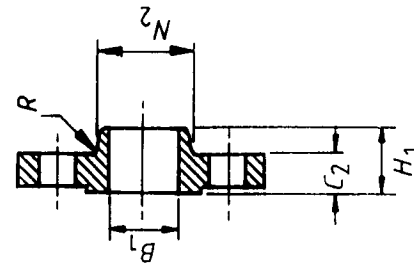
This diagram illustrates the arrangement but not necessarily the correct number of bolt holes. Refer to the column 'Bolting number' for the actual number.



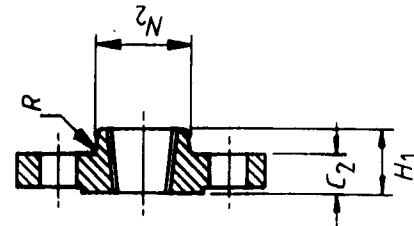
Code 105



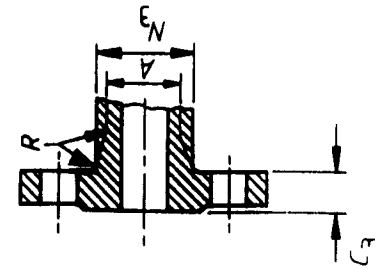
Code 111



Code 112



Code 113



Code 121

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						
	Outside diameter	Diameter of bolt circle	Diameter of bolt hole	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
				Num-	Size																										
DN	D	K	L			A																									
Corrosion affected	101, 102, 104, 105, 111, 112, 113, 121																														
	111, 121 134																														
	101 112 132																														
	102																														
	104																														
	101 102 104																														
	111 112 113																														
	105																														
	102 104																														
	132 134																														
10	90	60	14	4	M12	17.2	mm	18.0	21	31	14	16	16	3	12	—	mm	22	35	6	28	30	28	mm	mm	1.8	10				
15	95	65	14	4	M12	21.3	mm	22.0	25	35	14	16	16	3	12	—	mm	22	38	6	32	35	32	mm	mm	2.0	15				
20	105	75	14	4	M12	26.9	mm	27.5	31	42	16	18	18	4	14	—	mm	26	40	6	40	45	40	mm	mm	2.3	20				
25	115	85	14	4	M12	33.7	mm	34.5	38	49	16	18	18	4	14	—	mm	28	40	6	46	52	50	mm	mm	2.6	25				
32	140	100	18	4	M16	42.4	mm	43.5	47	59	18	18	18	5	14	—	mm	30	42	6	56	60	60	mm	mm	2.6	32				
40	150	110	18	4	M16	48.3	mm	49.5	53	67	18	18	18	5	14	—	mm	32	45	7	64	70	70	mm	mm	2.6	40				
50	165	125	18	4	M16	60.3	mm	61.5	65	77	20	20	20	5	16	—	mm	34	48	8	74	84	84	mm	mm	2.9	50				
65	185	145	18	8	M16	76.1	mm	77.5	81	96	22	22	22	6	16	55	mm	38	52	10	92	104	104	mm	mm	2.9	65				
80	200	160	18	8	M16	88.9	mm	90.5	94	114	24	24	24	6	18	70	mm	40	58	12	110	118	120	mm	mm	3.2	80				
100	235	190	22	8	M20	114.3	mm	116.0	120	138	26	24	24	6	20	90	mm	44	65	12	134	145	142	mm	mm	3.6	100				
125	270	220	26	8	M24	139.7	mm	141.5	145	166	28	26	26	6	22	115	mm	48	68	12	162	170	162	mm	mm	4.0	125				
150	300	250	26	8	M24	168.3	mm	170.5	174	194	30	28	28	6	24	140	mm	52	75	12	190	200	192	mm	mm	4.5	150				
200	375	320	30	12	M27	219.1	mm	221.5	226	250	36	34	34	6	28	190	mm	52	88	16	244	260	254	mm	mm	6.3	200				
250	450	385	33	12	M30	273.0	mm	276.5	281	312	42	38	38	8	30	235	mm	60	105	18	306	312	312	mm	mm	7.1	250				
300	515	450	33	16	M30	323.9	mm	327.5	333	368	48	42	42	8	34	285	mm	67	115	18	362	380	378	mm	mm	8.0	300				
350	580	510	36	16	M33	355.6	mm	359.5	365	418	54	46	46	8	36	325	mm	72	125	20	408	424	432	mm	mm	8.8	350				
400	660	585	39	16	M36	406.4	mm	411.0	416	472	60	50	50	8	42	375	mm	78	135	20	462	478	498	mm	mm	11.0	400				
450	685	610	39	20	M36	457.0	mm	462.0	467	510	66	50	50	8	46	425	mm	80	145	20	500	522	522	mm	mm	12.5	450				
500	755	670	42	20	M39	508.0	mm	513.5	519	572	72	52	56	8	50	475	mm	90	140	20	562	576	576	mm	mm	14.2	500				
600	890	795	48	20	M45	610.0	mm	616.5	622	676	84	60	60	8	54	575	mm	100	150	20	666	686	686	mm	mm	16.0	600				

Table 14. Tolerances			
Dimension	Flange code	Tolerance	Size
Outside diameter of neck A	111, 121, 134	mm	
		+3.0	≤ DN 125
		-0	
		+4.5	> DN 125 ≤ DN 1200
Bore diameter B_1, B_2, B_3	101, 102, 104, 112, 132,	+6.0	> DN 1200
		-0	
		+0.5	≤ DN 100
		-0	
		+1.0	> DN 100 ≤ DN 400
		-0	
		+1.5	> DN 400 ≤ DN 600
		-0	
Outside diameter D	121	+3.0	> DN 600
		-0	
		+4.0	≤ DN 250
		-0	
	All other codes	+5.0	> DN 250 ≤ DN 500
		-0	
		+6.0	> DN 500 ≤ DN 800
		-0	
		+7.0	> DN 800 ≤ DN 1200
		-0	
		+8.0	> DN 1200 ≤ DN 1600
		-0	
		+10.0	> DN 1600 ≤ DN 2000
		-0	
		+12.0	> DN 2000
		-0	
Length through hub H_1, H_2, H_3	111, 112, 113, 134	±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
		±1.5	≤ DN 80
		±2.0	> DN 80 ≤ DN 250
		±3.0	> DN 250
		+0	≤ DN 50
		-2.0	
		+0	> DN 50 ≤ DN 150
		-4.0	
Neck diameter N_1, N_2, N_3	111, 121, 134	+0	> DN 150 ≤ DN 300
		-8.0	
		+0	> DN 300 ≤ DN 600
		-8.0	
		+0	> DN 600 ≤ DN 1200
		-10.0	
		+1.0	≤ DN 50
		-0	
		+2.0	> DN 50 ≤ DN 150
		-0	
		+4.0	> DN 150 ≤ DN 300
		-0	
	112, 113	+8.0	> DN 300 ≤ DN 600
		-0	
		+12.0	> DN 600 ≤ DN 1200
		-0	
		+16.0	> DN 1200 ≤ DN 1800
		-0	
		+20.0	> DN 1800
		-0	
		+20.0	> DN 1800
		-0	
		+20.0	> DN 1800
		-0	

Table 14 (concluded)			
Dimensions	Flange code	Tolerance	Size
Flange thickness C_1, C_2, C_3, C_4	All codes (machined on both faces)	mm	
		±1.0	≤ 18 mm thickness
		±1.5	> 18 mm ≤ 50 mm thickness
		±2.0	> 50 mm thickness
	All codes (machined on front face only)	+2.0	≤ 18 mm thickness
		-1.3	
		+4.0	> 18 mm ≤ 50 mm thickness
		-1.5	
Facing diameter d_1	All codes	+7.0	> 50 mm thickness
		-2.0	
		+2.0	≤ DN 250
		-1.0	
Facing height f_1	All codes (facing type B)	+3.0	> DN 250
		-1.0	
		+0	2 mm
		-1.0	
	All codes (facing types C and E)	+0	3 mm
		-2.0	
		+0	4 mm
		-3.0	
	All codes (facing type G)	+0	5 mm
		-4.0	
		+0	6 mm
		-5.0	
Facing height f_2	All codes (facing type H)	+0.5	
		-0	
		+0.5	
		-0.5	
Facing height f_3	All codes (facing types D and F)	+0	All sizes
		-0.5	
		+0.5	
		-0	
Facing height f_4	All codes (facing type H)	+0.5	All sizes
		-0	
		+0.5	
		-0	
Facing	All codes	+0.5	All sizes
		-0	
		+0	
		-0.5	
	All codes	+0.5	
		-0.5	
		+0.5	
		-0	
Diameter of bolt circle K	All codes	+0	
		-0.5	
		+0.9	Bolt sizes M10 to M24
		±1.4	Bolt sizes M27 to M45
Centre-to-centre of adjacent bolt holes	All codes	±0.45	Bolt sizes M10 to M24
		±0.7	Bolt sizes M27 to M45
		1.0	≤ DN 100
		2.0	> DN 100
Eccentricity of machined facing diameters	All codes	1°	All sizes
		2°	
		1°	
		2°	
Parallelism between bolting bearing surfaces and flange jointing faces	All codes (machined surfaces)	1°	All sizes
		2°	
		1°	
		2°	
	All codes (unmachined surfaces)	1°	All sizes
		2°	
		1°	
		2°	