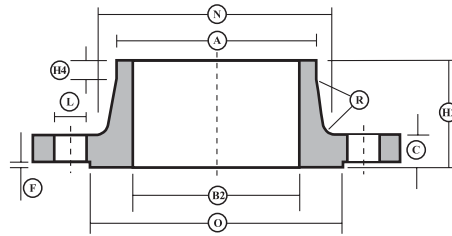


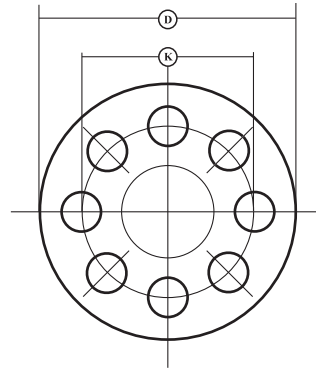
nikal STEELS

STAINLESS STEEL & NICKEL ALLOY FLANGES
BS1560: 3.1:1989 ASME/ANSI B16.5-1988

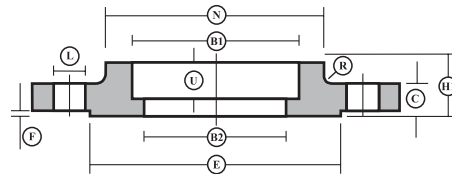
Code
111



Steel Welding
Neck Flange

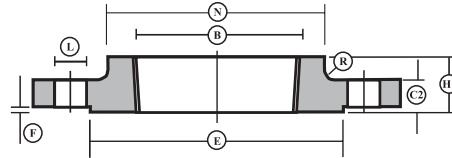


Code
114



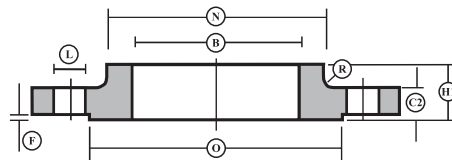
Socket Welding
Flange

Code
113



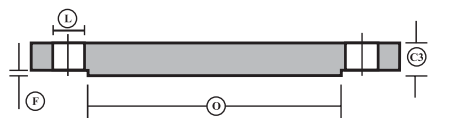
Screwed Boss
Flange

Code
112



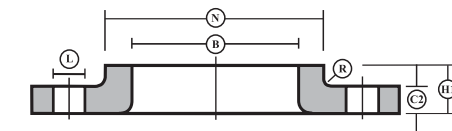
Slip-on Boss
Flange

Code
105



Steel Plate
Blind Flange

Code
115



Lapped
Flange

BS1560 : Section : 3.1 : 1989

ASME/ANSI B16.5-1988 Dimensions of Class 150 Flanges

N B Size INS MM	D	K	L	A	C	N	H1	H2	H3	H4	T	B1	B2	B3	R	R1	U	O	F	No. Holes
1/2 15	89	60.3	15.9	21.3	11.1	30	15.9	47.6	15.9		15.9	22.4		23	3	3	9.5	34.9	1.6	4
3/4 20	98	69.8	15.9	26.7	12.7	38	15.9	52.4	15.9		15.9	27.7		28	3	3	11	42.9	1.6	4
1 25	108	79.4	15.9	33.4	14.3	49	17.5	55.6	17.5		17.5	34.5		35	3	3	12.5	50.8	1.6	4
1 1/4 32	117	88.9	15.9	42.2	15.9	59	20.6	57.2	20.6		20.6	43.2		43.5	3	5	14.5	63.5	1.6	4
1 1/2 40	127	98.4	15.9	48.3	17.5	65	22.2	61.9	22.2		22.2	49.5		50	3	6.5	16	73	1.6	4
2 50	152	120.6	19	60.3	19	78	25.4	63.5	25.4		25.4	62		62.5	3	8	17.5	92.1	1.6	4
2 1/2 65	178	139.7	19	73	22.2	90	28.6	69.9	28.6		28.6	74.7		75.5	3	8	19	104.8	1.6	4
3 80	190	152.4	19	88.9	23.8	108	30.2	69.9	30.2		30.2	90.7		91.5	3	9.5	20.5	127	1.6	4
* 3 1/2 88	215.9	177.8	19	101.6	23.8	122	31.8	71.4	31.8		31.8	103.4		104.1	3	9.7	-	139.7	1.6	8
4 100	229	190.5	19	114.3	23.8	135	33.3	76.2	33.3		33.3	116.1		117	3	11	-	157.2	1.6	8
5 125	254	215.9	22.2	141.3	23.8	164	36.5	88.9	36.5		36.5	143.8		145	6.5	11	-	185.7	1.6	8
6 150	279	241.3	22.2	168.3	25.4	192	39.7	88.9	39.7		39.7	170.7		171	6.5	12.5	-	215.9	1.6	8
8 200	343	298.4	22.2	219.1	28.6	246	44.5	101.6	44.5		-	221.5		222	6.5	12.5	-	269.9	1.6	8
10 250	406	362	25.4	273	30.2	305	49.2	101.6	49.2		-	276.4		277	6.5	12.5	-	323.8	1.6	12
12 300	483	431.8	25.4	323.9	31.8	365	55.6	114.3	55.6		-	327.2		328	9.5	12.5	-	381	1.6	12
14 350	533	476.2	28.6	355.6	34.9	400	57.2	127	79.4		-	359.2		360	9.5	12.5	-	412.7	1.6	12
16 400	597	539.8	28.6	406.4	36.5	457	63.5	127	87.3		-	410.5		411	9.5	12.5	-	469.9	1.6	16
18 450	635	577.8	31.8	457.2	39.7	505	68.3	139.7	96.8		-	461.8		462	9.5	12.5	-	533.4	1.6	16
20 500	698	635	31.8	508	42.9	559	73	144.5	103.2		-	513.1		514	9.5	12.5	-	584.2	1.6	20
24 600	813	749.3	34.9	609.6	47.6	664	82.6	152.4	111.1		-	616		616	9.5	12.5	-	692.1	1.6	20

Note: 3.5" nominal bore dimensions are specified only in ASME/ANSI B16.5

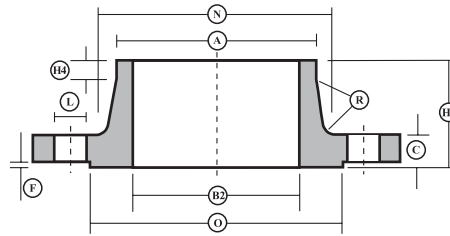
BS1560 : Section : 3.1 : 1989

ASME/ANSI B16.5-1988 Dimensions of Class 300 Flanges

N B Size INS MM	D	K	L	A	C	N	H1	H2	H3	H4	T	B1	B2	B3	R	R1	U	O	F	No. Holes
1/2 15	95	66.7	15.9	21.3	14.3	38	22.2	52.4	22.2		16	22.4		23	3	3	9.5	34.9	1.6	4
3/4 20	117	82.6	19	26.7	15.9	48	25.4	57.2	25.4		16	27.7		28	3	3	11	42.9	1.6	4
1 25	124	88.9	19	33.4	17.5	54	27	61.9	27		17	34.5		35	3	3	12.5	50.8	1.6	4
1 1/4 32	133	98.4	19	42.2	19	64	27	65.1	27		21	43.2		43.5	3	5	14.5	63.5	1.6	4
1 1/2 40	156	114.3	22.2	48.3	20.6	70	30.2	68.3	30.2		22	49.5		50	3	6.5	16	73	1.6	4
2 50	165	127	19	60.3	22.2	84	33.3	69.9	33.3		29	62		62.5	3	8	17.5	92.1	1.6	8
2 1/2 65	190	149.2	22.2	73	25.4	100	38.1	76.2	38.1		32	74.7		75.5	3	8	19	104.8	1.6	8
3 80	210	168.3	22.2	88.9	28.6	117	42.9	79.4	42.9		32	90.7		91.5	3	9.5	20.5	127	1.6	8
* 3 1/2 88	228.6	184.2	22.4	101.6	30.2	133.4	44.5	81	44.5		36.6	103.4		104.1	3	9.7	-	139.7	1.6	8
4 100	254	200	22.2	114.3	31.8	146	47.6	85.7	47.6		37	116.1		117	3	9.5	-	157.2	1.6	8
5 125	279	235	22.2	141.3	34.9	178	50.8	98.4	50.8		43	143.8		145	6.5	11	-	185.7	1.6	8
6 150	318	269.9	22.2	168.3	36.5	206	52.4	98.4	52.4		46	170.7		171	6.5	12.5	-	215.9	1.6	12
8 200	381	330.2	25.4	219.1	41.3	260	61.9	111.1	61.9		-	221.5		222	6.5	12.5	-	269.9	1.6	12
10 250	444	387.4	28.6	273	47.6	321	66.8	117.5	95.3		-	276.4		277	6.5	12.5	-	323.8	1.6	16
12 300	521	450.8	31.8	323.9	50.8	375	73	130.2	101.6		-	327.2		328	9.5	12.5	-	381	1.6	16
14 350	584	514.4	31.8	355.6	54	425	76.2	142.9	111.1		-	359.2		360	9.5	12.5	-	412.7	1.6	20
16 400	648	571.5	34.9	406.4	57.2	483	82.6	146.1	120.7		-	410.5		411	9.5	12.5	-	469.9	1.6	20
18 450	711	628.6	34.9	457.2	60.3	533	88.9	158.8	130.2		-	461.8		462	9.5	12.5	-	533.4	1.6	24
20 500	775	685.8	34.9	508	63.5	587	95.3	162	139.7		-	513.1		514	9.5	12.5	-	584.2	1.6	24
24 600	914	812.8	41.3	609.6	69.8	702	106.4	168.3	152.4		-	616		616	9.5	12.5	-	692.1	1.6	24

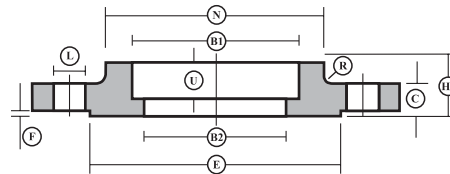
Note: 3.5" nominal bore dimensions are specified only in ASME/ANSI B16.5

Code
111



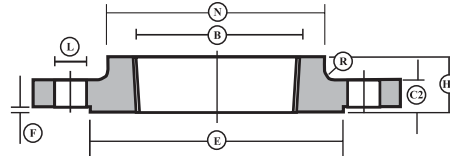
Steel Welding
Neck Flange

Code
114



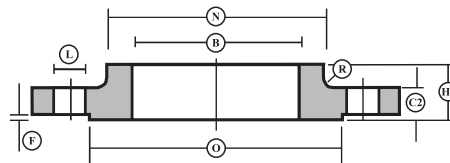
Socket Welding
Flange

Code
113



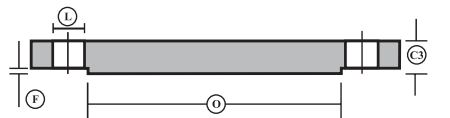
Screwed Boss
Flange

Code
112



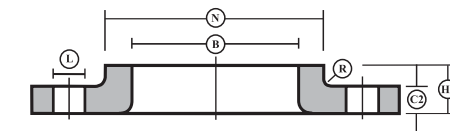
Slip-on Boss
Flange

Code
105

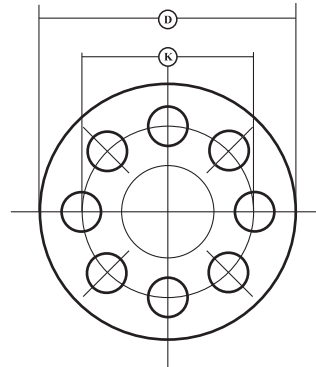


Steel Plate
Blind Flange

Code
115



Lapped
Flange



BS1560 : Section : 3.1 : 1989

ASME/ANSI B16.5-1988 Dimensions of Class 600 Flanges

N B Size INS MM		D	K	L	A	C	N	H1	H2	H3	H4	T	B1	B2	B3	R	R1	U	O	F	No. Holes
1/2	15	95	66.7	15.9	21.3	14.3	38	22.2	52.4	22.2		16	22.4		23	3	3	9.5	34.9	6.4	4
3/4	20	117	82.6	19	26.7	15.9	48	25.4	57.2	25.4		16	27.7		28	3	3	11	42.9	6.4	4
1	25	124	88.9	19	33.4	17.5	54	27	61.9	27		17	34.5		35	3	3	12.5	50.8	6.4	4
1 1/4	32	133	98.4	19	42.2	20.6	64	28.6	66.8	28.6		21	43.2		43.5	3	5	14.5	63.5	6.4	4
1 1/2	40	156	114.3	22.2	48.3	22.2	70	31.8	69.9	31.8		22	49.5		50	3	6.5	16	73	6.4	4
2	50	165	127	19	60.3	25.4	84	36.5	73	36.5		29	62		62.5	3	8	17.5	92.1	6.4	8
2 1/2	65	190	149.2	22.2	73	28.6	100	41.3	79.4	41.3		32	74.7		75.5	3	8	19	104.8	6.4	8
3	80	210	168.3	22.2	88.9	31.8	117	46	82.6	46		35	90.7		91.5	3	9.5	20.5	127	6.4	8
* 3 1/2	88	228.6	184.2	25.4	101.6	35	133.4	49.3	85.9	49.3		39.6	103.4		104.1	3	9.5	-	139.7	6.4	8
4	100	273	215.9	25.4	114.3	38.1	152	54	101.6	54		41	116.1		117	3	11	-	157.2	6.4	8
5	125	330	266.7	28.6	141.3	44.4	189	60.3	114.3	60.3		48	143.8		145	6.5	11	-	185.7	6.4	8
6	150	356	292.1	28.6	168.3	47.6	222	66.8	117.5	66.8		51	170.7		171	6.5	12.5	-	215.9	6.4	12
8	200	419	349.2	31.8	219.1	55.6	273	76.2	133.4	76.2		-	221.5		222	6.5	12.5	-	269.9	6.4	12
10	250	508	431.8	34.9	273	63.5	343	85.7	152.4	111.1		-	276.4		277	6.5	12.5	-	323.8	6.4	16
12	300	559	489	34.9	323.9	66.7	400	92.1	155.6	117.5		-	327.2		328	11	12.5	-	381	6.4	20
14	350	603	527	38.1	355.6	69.8	432	93.7	165.1	127		-	359.2		360	11	12.5	-	412.7	6.4	20
16	400	686	603.2	41.3	406.4	76.2	495	106.4	177.8	139.7		-	410.5		411	11	12.5	-	469.9	6.4	20
18	450	743	654	44.4	457.2	82.6	546	117.5	184.2	151.4		-	461.8		462	11	12.5	-	533.4	6.4	20
20	500	813	723.9	44.4	508	88.9	610	127	190.5	165.1		-	513.1		514	11	12.5	-	584.2	6.4	24
24	600	940	838.2	50.8	609.6	101.6	718	139.7	203.2	184.2		-	616		616	11	12.5	-	692.1	6.4	24

Note: 3.5" nominal bore dimensions are specified only in ASME/ANSI B16.5

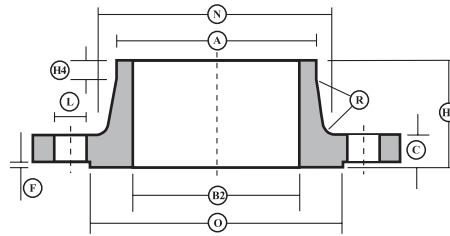
BS1560 : Section : 3.1 : 1989

ASME/ANSI B16.5-1988 Dimensions of Class 900 Flanges

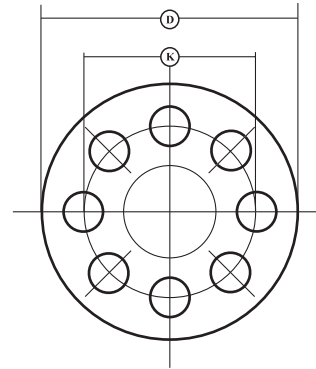
N B Size INS MM		D	K	L	A	C	N	H1	H2	H3	H4	T	B1	B2	B3	R	R1	O	F	No. Holes
3	80	241	190.5	25.4	88.9	38.1	127	54	101.6	54	Min 6.4mm	41	90.7	Schedule to be supplied by purchaser	91.5	3	9.5	127	6.4	8
4	100	292	235	31.8	114.3	44.4	159	69.9	114.3	69.9		48	116.1		117	5	11	157.2	6.4	8
5	125	349	279.4	34.9	141.3	50.8	190	79.4	127	79.4		54	143.8		145	6.5	11	185.7	6.4	8
6	150	381	317.5	31.8	168.3	55.6	235	85.7	139.7	85.7		57	170.7		171	6.5	12.5	215.9	6.4	12
8	200	470	393.7	38.1	219.1	63.5	298	101.6	162	114.3		-	221.5		222	6.5	12.5	269.9	6.4	12
10	250	546	469.9	38.1	273	69.8	368	108	184.2	127		-	276.4		277	6.5	12.5	323.8	6.4	16
12	300	610	533.4	38.1	323.9	79.4	419	117.5	200	142.9		-	327.2		328	9.5	12.5	381	6.4	20
14	350	641	558.8	41.3	355.6	85.7	451	130.2	212.8	155.6		-	359.2		360	11	12.5	412.7	6.4	20
16	400	705	616	44.4	406.4	88.9	508	133.4	215.9	165.1		-	410.5		411	11	12.5	469.9	6.4	20
18	450	787	685.8	50.8	457.2	101.6	565	152.4	228.6	190.5		-	461.8		462	11	12.5	533.4	6.4	20
20	500	857	749.3	54	508	108	622	158.8	247.7	209.6	-	513.1	514	11	12.5	584.2	6.4	20		
24	600	1041	901.7	66.7	609.6	139.7	749	203.2	292.1	266.7	-	616	616	11	12.5	692.1	6.4	20		

Note: For sizes 10mm-50mm nominal bore use Class 1500 dimensions

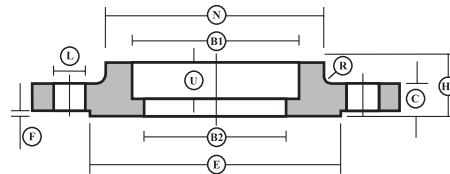
Code
111



Steel Welding
Neck Flange

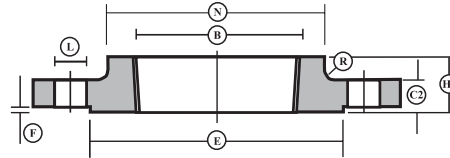


Code
114



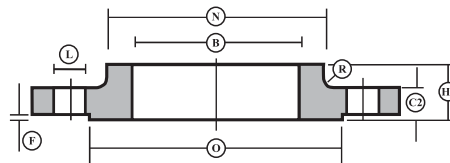
Socket Welding
Flange

Code
113



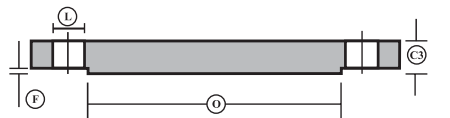
Screwed Boss
Flange

Code
112



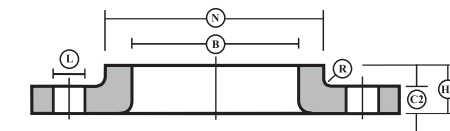
Slip-on Boss
Flange

Code
105



Steel Plate
Blind Flange

Code
115



Lapped
Flange

BS1560 : Section : 3.1 : 1989
ASME/ANSI B16.5-1988 Dimensions of Class 1500 Flanges

N B Size INS MM	D	K	L	A	C	N	H1	H2	H3	H4	T	B1	B2	B3	R	R1	U	O	F	No. Holes
1/2	15	121	82.6	22.2	21.3	22.2	38	31.8	60.3	31.8	22	22.4	23	5	3	9.5	34.9	6.4	4	
3/4	20	130	88.9	22.2	26.7	25.4	44	34.9	69.9	34.9	25	27.7	28	5	3	11	42.9	6.4	4	
1	25	149	101.6	25.4	33.4	28.6	52	41.3	73	41.3	29	34.5	35	5	3	12.5	50.8	6.4	4	
1 1/4	32	159	111.1	25.4	42.2	28.6	64	41.3	73	41.3	30	43.2	43.5	5	5	14.5	63.5	6.4	4	
1 1/2	40	178	123.8	28.6	48.3	31.8	70	44.5	82.6	44.5	32	49.5	50	5	6.5	16	73	6.4	4	
2	50	216	165.1	25.4	60.3	38.1	105	57.2	101.6	57.2	38	62	62.5	5	8	17.5	92.1	6.4	8	
2 1/2	65	244	190.5	28.6	73	41.3	124	63.5	104.8	63.5	48	74.7	75.5	5	8	19	104.8	6.4	8	
3	80	267	203.2	31.8	88.9	47.6	133	73	117.5	73	51	90.7	91.5	5	9.5	-	127	6.4	8	
4	100	311	241.3	34.9	114.3	54	162	90.5	123.8	90.5	57	116.1	117	5	11	-	157.2	6.4	8	
5	125	375	292.1	41.3	141.3	73	197	104.8	155.6	104.8	64	143.8	145	6.5	11	-	185.7	6.4	8	
6	150	394	317.5	38.1	168.3	82.6	229	119.1	171.5	119.1	70	170.7	171	6.5	12.5	-	215.9	6.4	12	
8	200	483	393.7	44.4	219.1	92.1	292	142.9	212.7	142.9	-	221.5	222	6.5	12.5	-	269.9	6.4	12	
10	250	584	482.6	50.8	273	108	368	158.8	254	177.8	-	276.4	277	9.5	12.5	-	323.8	6.4	12	
12	300	673	571.5	54	323.9	123.8	451	181	282.6	219.1	-	327.2	328	11	12.5	-	381	6.4	16	
14	350	749	635	60.3	355.6	133.4	495	-	298.5	241.3	-	359.2	360	11	12.5	-	412.7	6.4	16	
16	400	826	704.8	66.7	406.4	146.1	552	-	311.2	260.4	-	410.5	411	11	12.5	-	469.9	6.4	16	
18	450	914	774.7	73	457.2	161.9	597	-	327	276.2	-	461.8	462	11	12.5	-	533.4	6.4	16	
20	500	984	831.8	79.4	508	178	641	-	355.6	292.1	-	513.1	514	11	12.5	-	584.2	6.4	16	
24	600	1168	990.6	92	609.6	203	762	-	406.4	330.2	-	616	616	11	12.5	-	692.1	6.4	16	

BS1560 : Section : 3.1 : 1989
ASME/ANSI B16.5-1988 Dimensions of Class 2500 Flanges

N B Size INS MM	D	K	L	A	C	N	H1	H2	H3	H4	T	B2	B3	R	R1	O	F	No. Holes
1/2	15	133	88.9	22.2	21.3	30.2	43	39.7	73	39.7	29	23	5	3	34.9	6.4	4	
3/4	20	140	95.2	22.2	26.7	31.7	51	42.9	79.4	42.9	32	28	5	3	42.9	6.4	4	
1	25	159	107.9	25.4	33.4	34.9	57	47.6	88.9	47.6	35	35	5	3	50.8	6.4	4	
1 1/4	32	184	130.2	28.6	42.2	38.1	73	52.4	95.3	52.4	38	43.5	5	5	63.5	6.4	4	
1 1/2	40	203	146	31.8	48.3	44.4	79	60.3	111.1	60.3	44	50	9.5	6.5	73	6.4	4	
2	50	235	171.4	28.6	60.3	50.8	95	69.9	127	69.9	51	62.5	9.5	8	92.1	6.4	8	
2 1/2	65	267	196.8	31.8	73	57.1	114	79.4	142.9	79.4	57	75.5	9.5	8	104.8	6.4	8	
3	80	305	228.6	34.9	88.9	66.7	133	92.1	168.3	92.1	64	91.5	9.5	9.5	127	6.4	8	
4	100	356	273	41.3	114.3	76.2	165	108	190.5	108	70	117	9.5	11	157.2	6.4	8	
5	125	419	323.8	47.6	141.3	92.1	203	130.2	228.6	130.2	76	145	9.5	11	185.7	6.4	8	
6	150	483	368.3	54	168.3	108	235	152.4	273.1	152.4	83	171	15.5	12.5	215.9	6.4	8	
8	200	552	438.1	54	219.1	127	305	-	317.5	177.8	-	222	15.5	12.5	269.9	6.4	12	
10	250	673	539.7	66.7	273	165.1	375	-	419.1	228.6	-	277	15.5	12.5	323.8	6.4	12	
12	300	672	619.1	73	323.9	184.1	441	-	463.6	254	-	328	15.5	12.5	381	6.4	12	