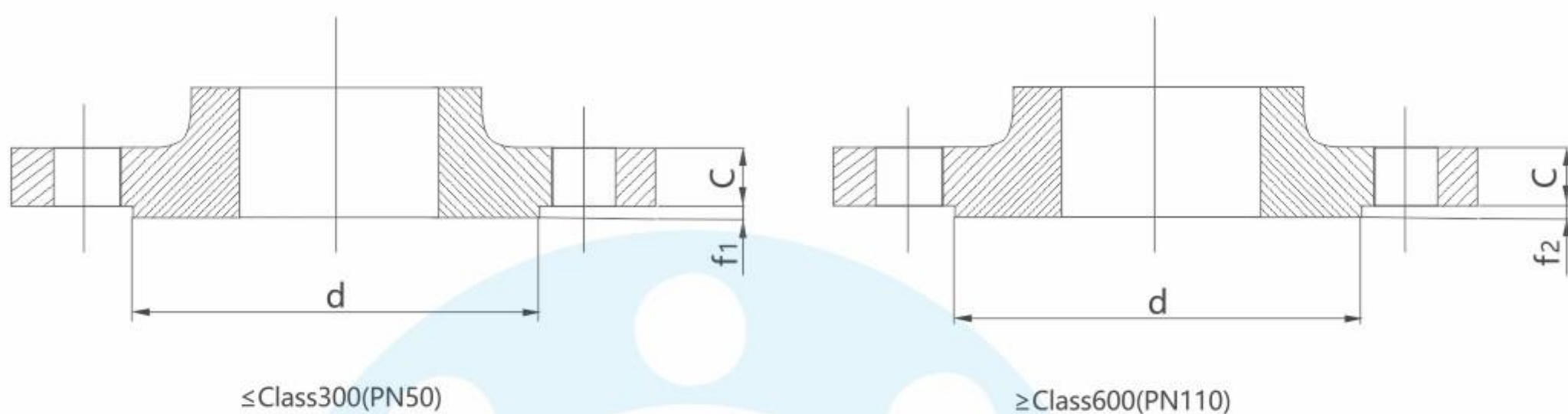


STEEL PIPE FLANGE

HG/T20615-2009(HG 20615-1997)

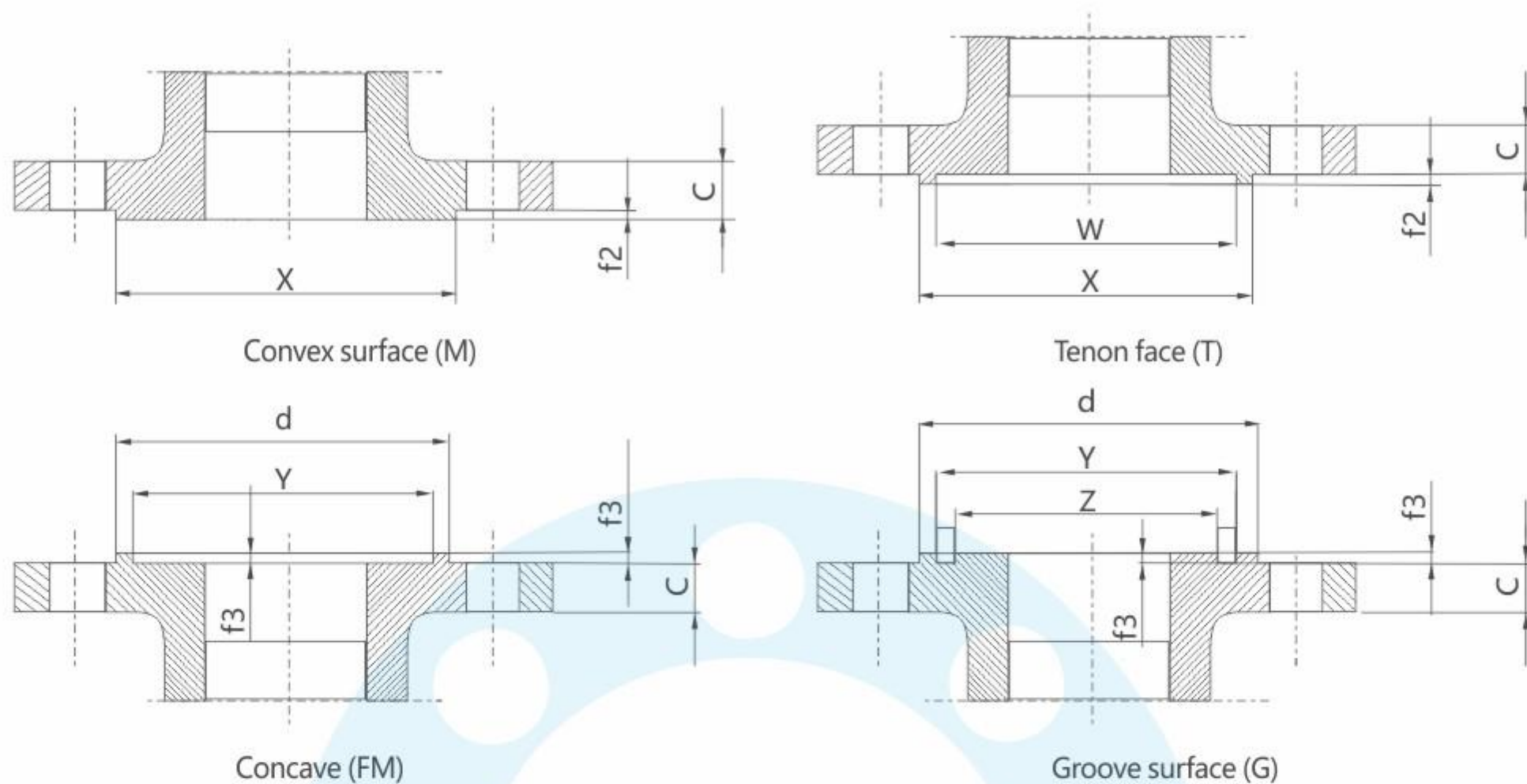


(mm)

size		d	Platform height		size		d	Platform height	
DN	NPS		f1	f2	DN	NPS		f1	f2
			≤Class300 (PN50)	≥Class600 (PN110)				≤Class300 (PN50)	≥Class600 (PN110)
15	½	34.9	2	7	150	6	215.9	2	7
20	¾	42.9			200	8	269.9		
25	1	50.8			250	10	323.8		
32	1¼	63.5			300	12	381.0		
40	1½	73.0			350	14	412.8		
50	2	92.1			400	16	469.9		
65	2½	104.8			450	18	533.4		
80	3	127.0			500	20	584.2		
100	4	157.2			600	24	692.2		
125	5	185.7							

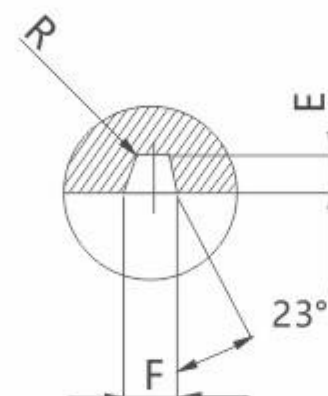
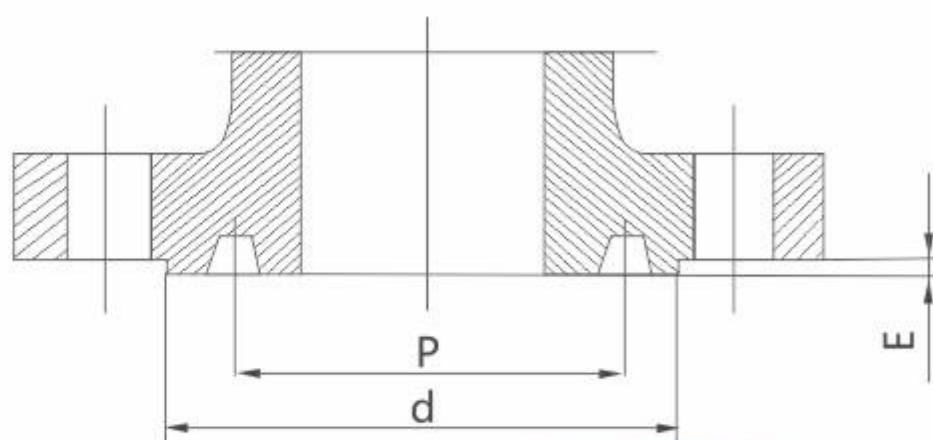
ASME/ANSI

SEALING SURFACE SIZE OF RAISED FACE FLANGE



size		Class300(PN50)~Class300(PN420)						
DN	NPS	d	W	X	Y	Z	f ₂	f ₃
15	1/2	46	25.4	34.9	36.5	23.8	7	5
20	3/4	54	33.3	42.9	44.4	31.8		
25	1	62	38.1	50.8	52.4	36.5		
32	1 1/4	75	47.6	63.5	65.1	46.0		
40	1 1/2	84	54.0	73.0	74.6	52.4		
50	2	103	73.0	92.1	93.7	71.4		
65	2 1/2	116	85.7	104.8	106.4	84.1		
80	3	138	108.0	127.0	128.6	106.4		
100	4	168	131.8	157.2	158.8	130.2		
125	5	197	160.3	185.7	187.3	158.8		
150	6	227	190.5	215.9	217.5	188.9		
200	8	281	238.1	269.9	271.5	236.5		
250	10	335	285.8	323.8	325.4	284.2		
300	12	392	342.9	381.0	382.6	341.3		
350	14	424	374.6	412.8	414.3	373.1		
400	16	481	425.4	469.9	471.5	423.9		
450	18	544	489.0	533.4	535.0	487.4		
500	20	595	533.4	584.2	585.8	531.8		
600	24	703	641.4	692.2	693.7	639.8		

RING CONNECTION SURFACE (RJ) FLANGE SEALING SURFACE SIZE

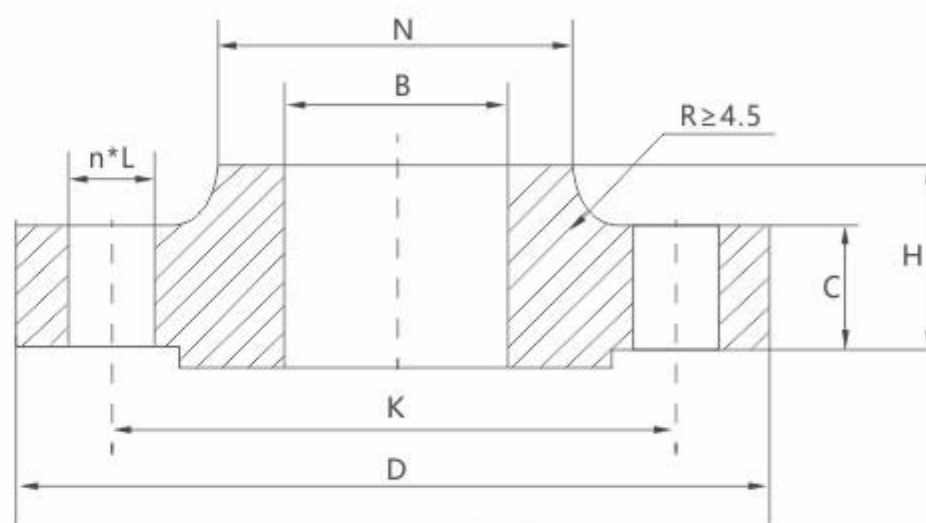


size		CLASS150 (PN20)						CLASS300(PN50)和CLASS600(PN110)					
DN	NPS	Ring number	d _{min}	P	E	F	R _{max}	Ring number	d _{min}	P	E	F	R _{max}
15	1/2							R11	51.0	34.14	5.54	7.14	0.8
20	3/4							R13	63.5	42.88	6.35	8.74	0.8
25	1	R15	63.5	47.63	6.35	8.74	0.8	R16	70.0	50.80	6.35	8.74	0.8
32	1 1/4	R17	73.0	57.15	6.35	8.74	0.8	R18	79.5	60.33	6.35	8.74	0.8
40	1 1/2	R19	82.5	65.07	6.35	8.74	0.8	R20	90.5	68.27	6.35	8.74	0.8
50	2	R22	102	82.55	6.35	8.74	0.8	R23	108	82.55	7.92	11.91	0.8
65	2 1/2	R25	121	101.6	6.35	8.74	0.8	R26	127	101.60	7.92	11.91	0.8
80	3	R29	133	114.3	6.35	8.74	0.8	R31	146	123.83	7.92	11.91	0.8
100	4	R36	171	149.23	6.35	8.74	0.8	R37	175	149.23	7.92	11.91	0.8
125	5	R40	194	171.45	6.35	8.74	0.8	R41	210	180.98	7.92	11.91	0.8
150	6	R43	219	193.68	6.35	8.74	0.8	R45	241	211.12	7.92	11.91	0.8
200	8	R48	273	247.65	6.35	8.74	0.8	R49	302	269.88	7.92	11.91	0.8
250	10	R52	330	304.80	6.35	8.74	0.8	R53	356	323.85	7.92	11.91	0.8
300	12	R56	406	381.00	6.35	8.74	0.8	R57	413	381.00	7.92	11.91	0.8
350	14	R59	425	396.88	6.35	8.74	0.8	R61	457	419.10	7.92	11.91	0.8
400	16	R64	483	454.03	6.35	8.74	0.8	R65	508	469.90	7.92	11.91	0.8
450	18	R68	546	517.53	6.35	8.74	0.8	R69	575	533.40	7.92	11.91	0.8
500	20	R72	597	558.80	6.35	8.74	0.8	R73	635	584.20	9.53	13.49	1.5
600	24	R76	711	673.10	6.35	8.74	0.8	R77	749	692.15	11.13	16.66	1.5

size		CLASS900 (PN150)						CLASS1500(PN260)					
DN	NPS	Ring number	d _{min}	P	E	F	R _{max}	Ring number	d _{min}	P	E	F	R _{max}
15	1/2	R12	60.5	39.67	6.35	8.74	0.8	R12	60.5	39.67	6.35	8.74	0.8
20	3/4	R14	66.5	44.45	6.35	8.74	0.8	R14	66.5	44.45	6.35	8.74	0.8
25	1	R16	71.5	50.80	6.35	8.74	0.8	R16	71.5	50.80	6.35	8.74	0.8
32	1 1/4	R18	81.0	60.33	6.35	8.74	0.8	R18	81.0	60.33	6.35	8.74	0.8
40	1 1/2	R20	92.0	68.27	6.35	8.74	0.8	R20	92.0	68.27	6.35	8.74	0.8
50	2	R24	124	95.25	7.92	11.91	0.8	R24	124	95.25	7.92	11.91	0.8
65	2 1/2	R27	137	107.95	7.92	11.91	0.8	R27	137	107.95	7.92	11.91	0.8
80	3	R31	156	123.83	7.92	11.91	0.8	R35	168	136.53	7.92	11.91	0.8
100	4	R37	181	149.23	7.92	11.91	0.8	R39	194	161.93	7.92	11.91	0.8
125	5	R41	216	180.98	7.92	11.91	0.8	R44	229	193.68	7.92	11.91	0.8
150	6	R45	241	211.12	7.92	11.91	0.8	R46	248	211.14	9.53	13.49	1.5
200	8	R49	308	269.88	7.92	11.91	0.8	R50	318	269.88	11.13	16.66	1.5
250	10	R53	362	323.85	7.92	11.91	0.8	R54	371	323.85	11.13	16.66	1.5
300	12	R57	419	381.00	7.92	11.91	0.8	R58	438	381.00	14.27	23.01	1.5
350	14	R62	467	419.10	11.13	16.66	1.5	R63	489	419.10	15.88	26.97	2.4
400	16	R66	524	469.90	11.13	16.66	1.5	R67	546	469.90	17.48	30.18	2.4
450	18	R70	594	533.40	12.70	19.84	1.5	R71	613	533.40	17.48	30.18	2.4
500	20	R74	648	584.20	12.70	19.84	1.5	R75	673	584.20	17.48	33.32	2.4
600	24	R78	772	692.15	15.88	26.97	2.4	R79	794	692.15	20.62	36.53	2.4

size		CLASS2500(PN420)					
DN	NPS	Ring number	d _{min}	P	E	F	R _{max}
15	1/2	R13	65.0	42.88	6.35	8.74	0.8
20	3/4	R16	73.0	50.80	6.35	8.74	0.8
25	1	R18	82.5	60.33	6.35	8.74	0.8
32	1 1/4	R21	102	72.23	7.92	11.91	0.8
40	1 1/2	R23	114	82.55	7.92	11.91	0.8
50	2	R26	133	101.60	7.92	11.91	0.8
65	2 1/2	R28	149	111.13	9.52	13.49	1.5
80	3	R32	168	127.00	9.53	13.49	1.5
100	4	R38	203	157.18	11.13	16.66	1.5
125	5	R42	241	190.50	12.70	19.84	1.5
150	6	R47	279	228.60	12.70	19.84	1.5
200	8	R51	340	279.40	14.27	23.01	1.5
250	10	R55	425	342.90	17.48	30.18	2.4
300	12	R60	495	406.40	17.48	33.32	2.4

HG/T20616-2009(SO)

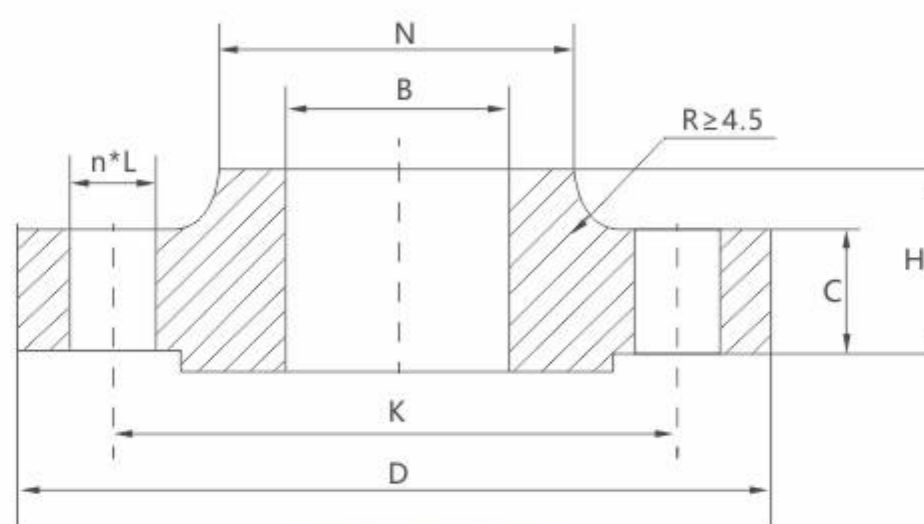
FLAT WELDED STEEL PIPE FLANGE WITH NECK


Class150(PN20)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	90	60.3	16	M14	4	9.6	22.5	30	14
20	3/4	26.9	100	69.9	16	M14	4	11.2	27.5	38	14
25	1	33.7	110	79.4	16	M14	4	12.7	34.5	49	16
32	1 1/4	42.4	115	88.9	16	M14	4	14.3	43.5	59	19
40	1 1/2	48.3	125	98.4	16	M14	4	15.9	49.5	65	21
50	2	60.3	150	120.7	18	M16	4	17.5	61.5	78	24
65	2 1/2	76.1	180	139.7	18	M16	4	20.7	77.6	90	27
80	3	88.9	190	152.4	18	M16	4	22.3	90.5	108	29
100	4	114.3	230	190.5	18	M16	8	22.3	116.0	135	32
125	5	139.7	255	215.9	22	M20	8	22.3	143.5	164	35
150	6	168.3	280	241.3	22	M20	8	23.9	170.5	192	38
200	8	219.1	345	298.5	22	M20	8	27.0	221.5	246	43
250	10	273	405	362.0	26	M24	12	28.6	276.5	305	48
300	12	323.9	485	431.8	26	M24	12	30.2	328.0	365	54
350	14	355.6	535	476.3	30	M27	12	33.4	360.0	400	56
400	16	406.4	595	539.8	30	M27	16	35.0	411.0	457	62
450	18	457	635	577.9	33	M30	16	38.1	462.0	505	67
500	20	508	700	635.0	33	M30	20	41.3	513.5	559	71
600	24	610	815	749.3	36	M33	20	46.1	616.5	663	81

HG/T20616-2009(SO)

FLAT WELDED STEEL PIPE FLANGE WITH NECK

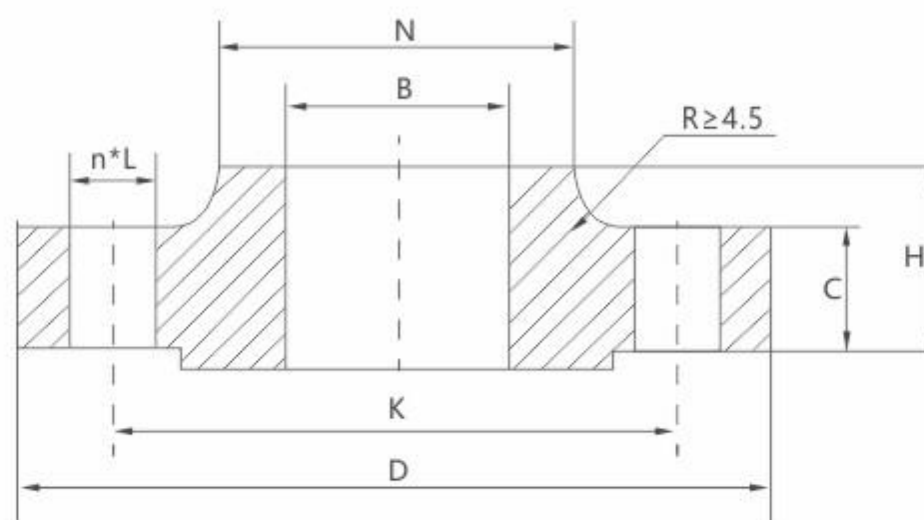


Class300(PN50)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	95	66.7	16	4	M14	12.7	22.5	38	21
20	3/4	26.9	115	82.6	18	4	M16	14.3	27.5	48	24
25	1	33.7	125	88.9	18	4	M16	15.9	34.5	54	25
32	1 1/4	42.4	135	98.4	18	4	M16	17.5	43.5	64	25
40	1 1/2	48.3	155	114.3	22	4	M20	19.1	49.5	70	29
50	2	60.3	165	127.0	18	8	M16	20.7	61.5	84	32
65	2 1/2	76.1	190	149.2	22	8	M20	23.9	77.6	100	37
80	3	88.9	210	168.3	22	8	M20	27.0	90.5	117	41
100	4	114.3	255	200.0	22	8	M20	30.2	116.0	146	46
125	5	139.7	280	235.0	22	8	M20	33.4	143.5	178	49
150	6	168.3	320	269.9	22	12	M20	35.0	170.5	206	51
200	8	219.1	380	330.2	26	12	M24	39.7	221.5	260	60
250	10	273	445	387.4	30	16	M27	46.1	276.5	321	65
300	12	323.9	520	450.8	33	16	M30	49.3	328.0	375	71
350	14	355.6	585	514.4	33	20	M30	52.4	360.0	425	75
400	16	406.4	650	571.5	36	20	M33	55.6	411.0	483	81
450	18	457	710	628.6	36	24	M33	58.8	462.0	533	87
500	20	508	775	685.8	36	24	M33	62.0	513.5	587	94
600	24	610	915	812.8	42	24	M39X3	68.3	616.5	702	105

HG/T20616-2009(SO)

FLAT WELDED STEEL PIPE FLANGE WITH NECK

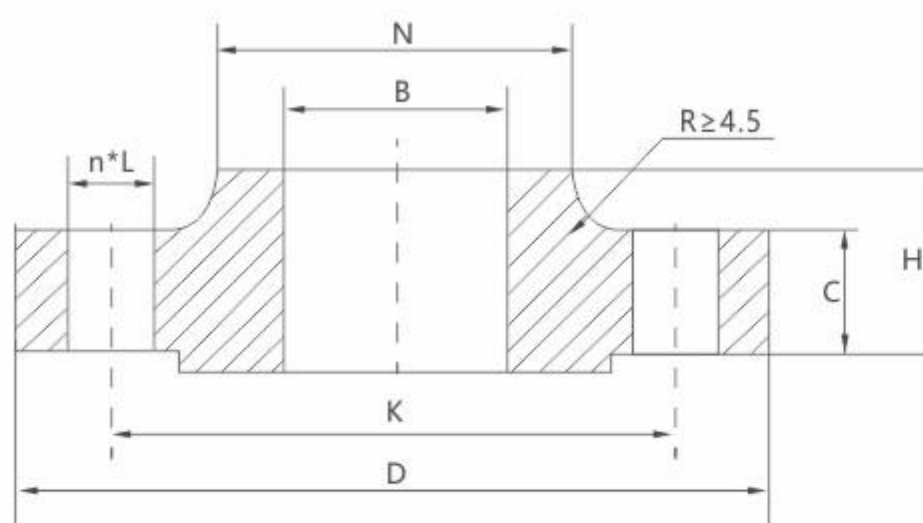


Class600(PN110)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	95	66.7	16	4	M14	14.3	22.5	38	22
20	3/4	26.9	115	82.6	18	4	M16	15.9	27.5	48	25
25	1	33.7	125	88.9	18	4	M16	17.5	34.5	54	27
32	1 1/4	42.4	135	88.4	18	4	M16	20.7	43.5	64	29
40	1 1/2	48.3	155	114.3	22	4	M20	22.3	49.5	70	32
50	2	60.3	165	127.0	18	8	M16	25.4	61.5	84	37
65	2 1/2	76.1	190	149.2	22	8	M20	28.6	77.6	100	41
80	3	88.9	210	168.3	22	8	M20	31.8	90.5	117	46
100	4	114.3	275	215.9	26	8	M24	38.1	116.0	152	54
125	5	139.7	330	266.7	30	8	M27	44.5	143.5	189	60
150	6	168.3	355	292.1	30	12	M27	47.7	170.5	222	67
200	8	219.1	420	349.2	33	12	M30	55.6	221.5	273	76
250	10	273	510	431.8	36	16	M33	63.5	276.5	343	86
300	12	323.9	560	489.0	36	20	M33	66.7	328.0	400	92
350	14	355.6	605	527.0	39	20	M36X3	69.9	360.0	432	94
400	16	406.4	685	603.2	42	20	M39X3	76.2	411.0	495	106
450	18	457	745	654.0	45	20	M42X3	82.6	462.0	546	117
500	20	508	815	723.9	45	24	M42X3	88.9	513.5	610	127
600	24	610	940	838.2	51	24	M48X3	101.6	616.5	718	140

HG/T20616-2009(SO)

FLAT WELDED STEEL PIPE FLANGE WITH NECK



Class900(PN150)

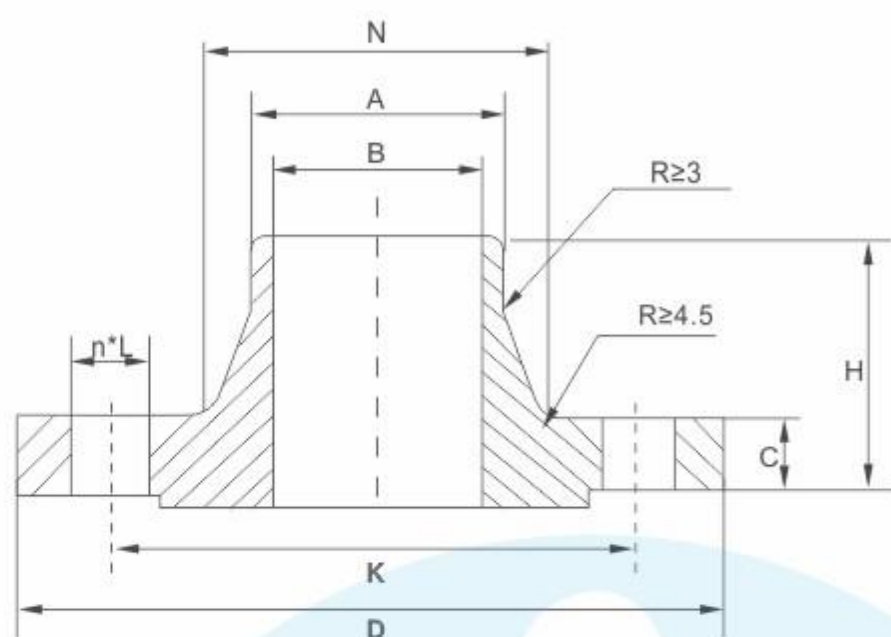
size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	120	82.6	22	4	M20	22.3	22.5	38	32
20	3/4	26.9	130	88.9	22	4	M20	25.4	27.5	44	35
25	1	33.7	150	101.6	26	4	M24	28.6	34.5	52	41
32	1 1/4	42.4	160	111.1	26	4	M24	28.6	43.5	64	41
40	1 1/2	48.3	180	123.8	30	4	M27	31.8	49.5	70	44
50	2	60.3	215	165.1	26	8	M24	38.1	61.5	105	57
65	2 1/2	76.1	245	190.5	30	8	M27	41.3	77.6	124	64
80	3	88.9	240	190.5	26	8	M24	38.1	90.5	127	54
100	4	114.3	290	235.0	33	8	M30	44.5	116.0	159	70
125	5	139.7	350	279.4	36	8	M33	50.8	143.5	190	79
150	6	168.3	380	317.5	33	12	M30	55.6	170.5	235	86
200	8	219.1	470	393.7	39	12	M36X3	63.5	221.5	298	102
250	10	273	545	469.9	39	16	M36X3	69.9	276.5	368	108
300	12	323.9	610	533.4	39	20	M36X3	79.4	328.0	419	117
350	14	355.6	640	558.8	42	20	M39X3	85.8	360.0	451	130
400	16	406.4	705	616.0	45	20	M42X3	88.9	411.0	508	133
450	18	457	785	685.8	51	20	M48X3	101.6	462.0	565	152
500	20	508	855	749.3	55	20	M52X3	108.0	513.5	622	159
600	24	610	1040	901.7	68	20	M64X3	139.7	616.5	749	203

Class1500(PN260)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	120	82.6	22	4	M20	22.3	22.5	38	32
20	3/4	26.9	130	88.9	22	4	M20	25.4	27.5	44	35
25	1	33.7	150	101.6	26	4	M24	28.6	34.5	52	41
32	1 1/4	42.4	160	111.1	26	4	M24	28.6	43.5	64	41
40	1 1/2	48.3	180	123.8	30	4	M27	31.8	49.5	70	44
50	2	60.3	215	165.1	26	8	M24	38.1	61.5	105	57
65	2 1/2	76.1	245	190.5	30	8	M27	41.3	77.6	124	64

HG/T20617-2009(WN)

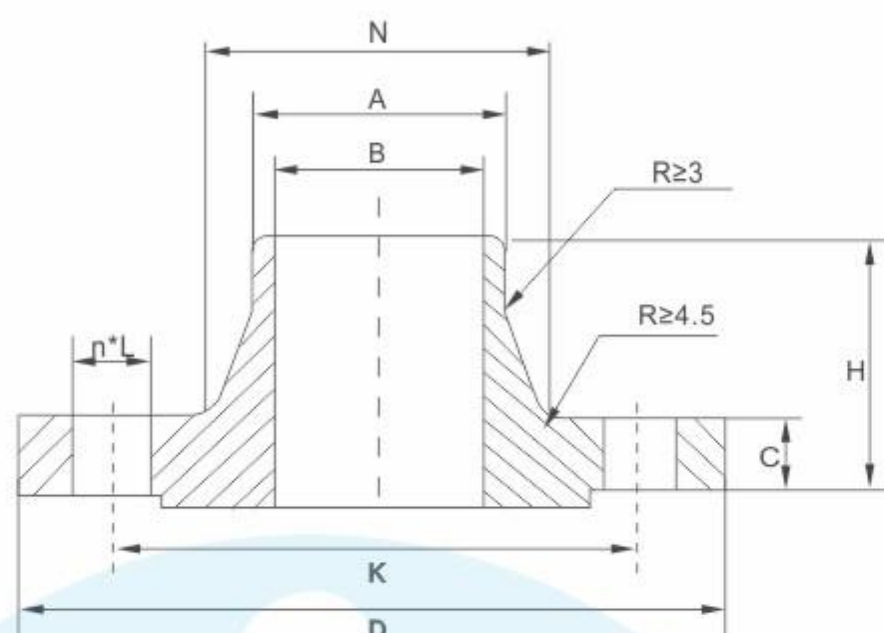
BUTT WELDING STEEL PIPE FLANGE WITH NECK



Class150(PN20)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	90	60.3	16	4	M14	9.6	15.5	30	46
20	3/4	26.9	100	69.9	16	4	M14	11.2	21	38	51
25	1	33.7	110	79.4	16	4	M14	12.7	27	49	54
32	1 1/4	42.4	115	88.9	16	4	M14	14.3	35	59	56
40	1 1/2	48.3	125	98.4	16	4	M14	15.9	41	65	60
50	2	60.3	150	120.7	18	4	M16	17.5	52	78	62
65	2 1/2	76.1	180	139.7	18	4	M16	20.7	66	90	68
80	3	88.9	190	152.4	18	4	M16	22.3	77.5	108	68
100	4	114.3	230	190.5	18	8	M16	22.3	101.5	135	75
125	5	139.7	255	215.9	22	8	M20	22.3	127	164	87
150	6	168.3	280	241.3	22	8	M20	23.9	154	192	87
200	8	219.1	345	298.5	22	8	M20	27.0	203	246	100
250	10	273	405	362.0	26	12	M24	28.6	255	305	100
300	12	323.9	485	431.8	26	12	M24	30.2	303.5	365	113
350	14	355.6	535	476.3	30	12	M27	33.4	-	400	125
400	16	406.4	595	539.8	30	16	M27	35.0	-	457	125
450	18	457	635	577.9	33	16	M30	38.1	-	505	138
500	20	508	700	635.0	33	20	M30	41.3	-	559	143
600	24	610	815	749.3	36	20	M33	46.1	-	663	151

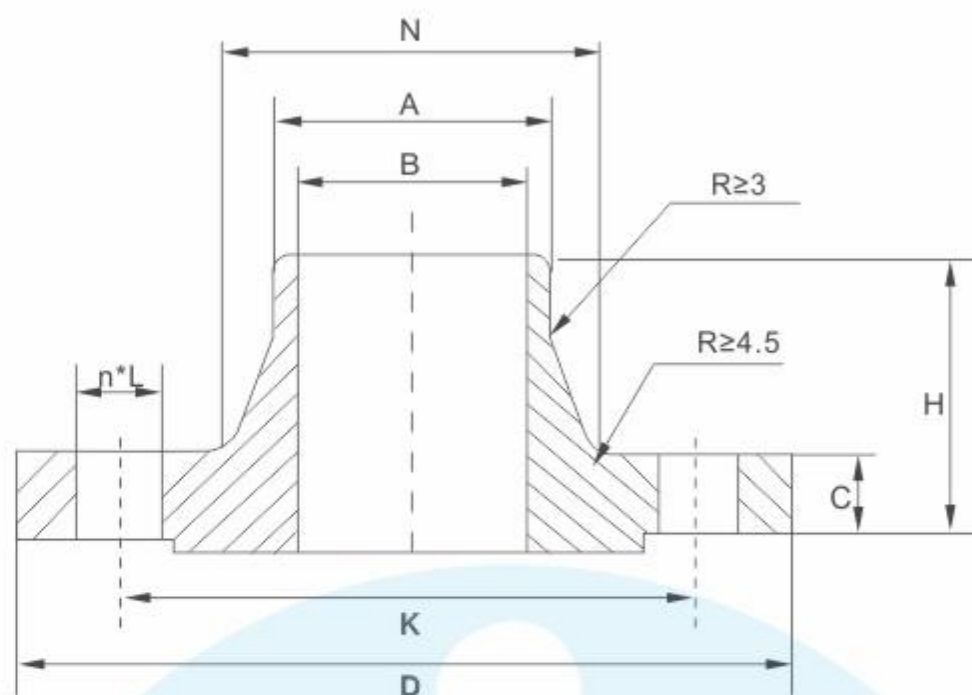
HG/T20617-2009(WN)

BUTT WELDING STEEL PIPE FLANGE WITH NECK

Class300(PN50)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	95	66.7	16	4	M14	12.7	15.5	38	51
20	3/4	26.9	115	82.6	18	4	M16	14.3	21	48	56
25	1	33.7	125	88.9	18	4	M16	15.9	27	54	60
32	1 1/4	42.4	135	98.4	18	4	M16	17.5	35	64	64
40	1 1/2	48.3	155	114.3	22	4	M20	19.1	41	70	67
50	2	60.3	165	127.0	18	8	M16	20.7	52	84	68
65	2 1/2	76.1	190	149.2	22	8	M20	23.9	66	100	75
80	3	88.9	210	168.3	22	8	M20	27.0	77.5	117	78
100	4	114.3	255	200.0	22	8	M20	30.2	101.5	146	84
125	5	139.7	280	235.0	22	8	M20	33.4	127	178	97
150	6	168.3	320	269.9	22	12	M20	35.0	154	206	97
200	8	219.1	380	330.2	26	12	M24	39.7	203	260	110
250	10	273	445	387.4	30	16	M27	46.1	255	321	116
300	12	323.9	520	450.8	33	16	M30	49.3	303.5	375	129
350	14	355.6	585	514.4	33	20	M30	52.4	-	425	141
400	16	406.4	650	571.5	36	20	M33	55.6	-	483	144
450	18	457	710	628.6	36	24	M33	58.8	-	533	157
500	20	508	775	685.8	36	24	M33	62.0	-	587	160
600	24	610	915	812.8	42	24	M39X3	68.3	-	702	167

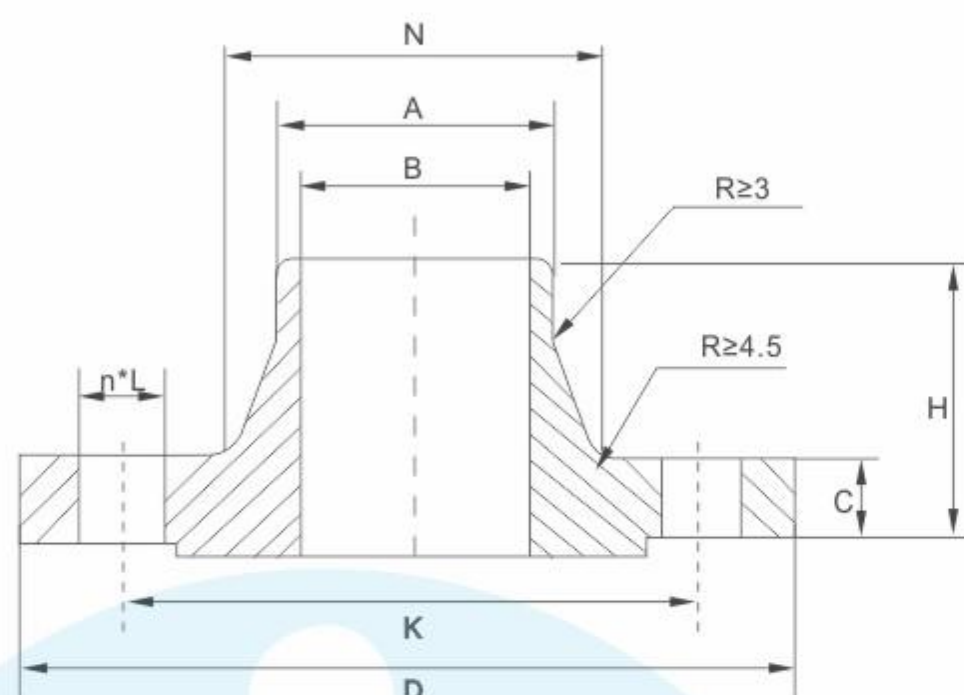
HG/T20617-2009(WN)

BUTT WELDING STEEL PIPE FLANGE WITH NECK


Class600(PN110)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	95	66.7	16	4	M14	14.3	-	38	52
20	3/4	26.9	115	82.6	18	4	M16	15.9	-	48	57
25	1	33.7	125	88.9	18	4	M16	17.5	-	54	62
32	1 1/4	42.4	135	98.4	18	4	M16	20.7	-	64	67
40	1 1/2	48.3	155	114.3	22	4	M20	22.3	-	70	70
50	2	60.3	165	127.0	18	8	M16	25.4	-	84	73
65	2 1/2	76.1	190	149.2	22	8	M20	28.6	-	100	79
80	3	88.9	210	168.3	22	8	M20	31.8	-	117	83
100	4	114.3	275	215.9	26	8	M24	38.1	-	152	102
125	5	139.7	330	266.7	30	8	M27	44.5	-	189	114
150	6	168.3	355	292.1	30	12	M27	47.7	-	222	117
200	8	219.1	420	349.2	33	12	M30	55.6	-	273	133
250	10	273	510	431.8	36	16	M33	63.5	-	343	152
300	12	323.9	560	489.0	36	20	M33	66.7	-	400	156
350	14	355.6	605	527.0	39	20	M36X3	69.9	-	432	165
400	16	406.4	685	603.2	42	20	M39X3	76.2	-	495	178
450	18	457	745	654.0	45	20	M42X3	82.6	-	546	184
500	20	508	815	723.9	45	24	M42X3	88.9	-	610	190
600	24	610	940	838.2	51	24	M48X3	101.6	-	718	203

HG/T20617-2009(WN)

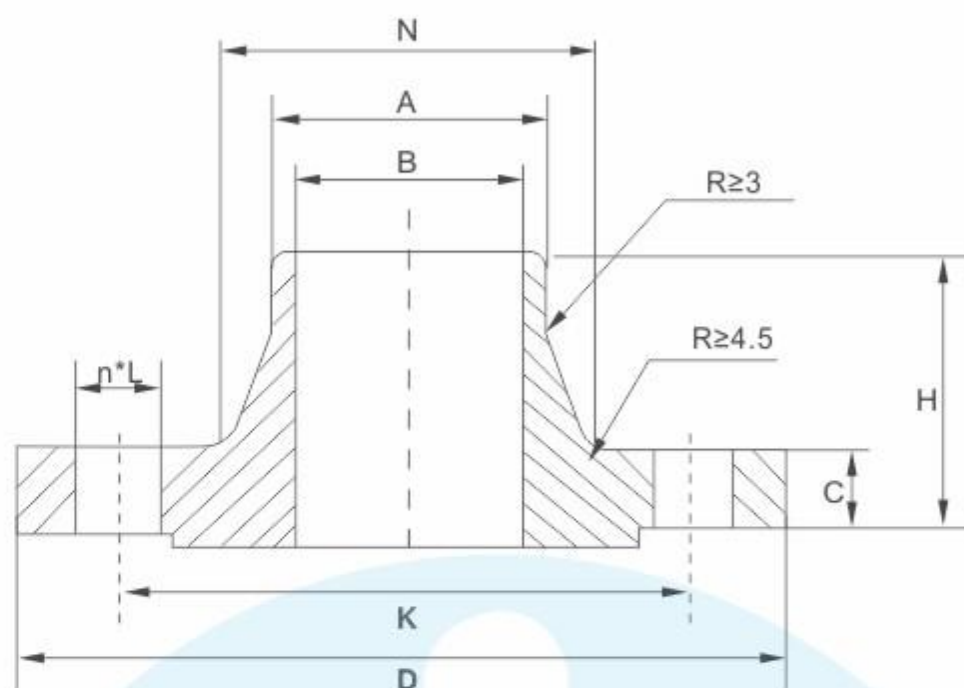
BUTT WELDING STEEL PIPE FLANGE WITH NECK

Class900(PN150)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	120	82.6	22	4	M20	22.3	-	38	60
20	3/4	26.9	130	88.9	22	4	M20	25.4	-	44	70
25	1	33.7	150	101.6	26	4	M24	28.6	-	52	73
32	1 1/4	42.4	160	111.1	26	4	M24	28.6	-	64	73
40	1 1/2	48.3	180	123.8	30	4	M27	31.8	-	70	83
50	2	60.3	215	165.1	26	8	M24	38.1	-	105	102
65	2 1/2	76.1	245	190.5	30	8	M27	41.3	-	124	105
80	3	88.9	240	190.5	26	8	M24	38.1	-	127	102
100	4	114.3	290	235.0	33	8	M30	44.5	-	159	114
125	5	139.7	350	279.4	36	8	M33	50.8	-	190	127
150	6	168.3	380	317.5	33	12	M30	55.6	-	235	140
200	8	219.1	470	393.7	39	12	M36X3	63.5	-	298	162
250	10	273	545	469.9	39	16	M36X3	69.9	-	368	184
300	12	323.9	610	533.4	39	20	M36X3	79.4	-	419	200
350	14	355.6	640	558.8	42	20	M39X3	85.8	-	451	213
400	16	406.4	705	616.0	45	20	M42X3	88.9	-	508	216
450	18	457	785	685.8	51	20	M48X3	101.6	-	565	229
500	20	508	855	749.3	55	20	M52X3	108.0	-	622	248
600	24	610	1040	901.7	68	20	M64X3	139.7	-	749	292

HG/T20617-2009(WN)

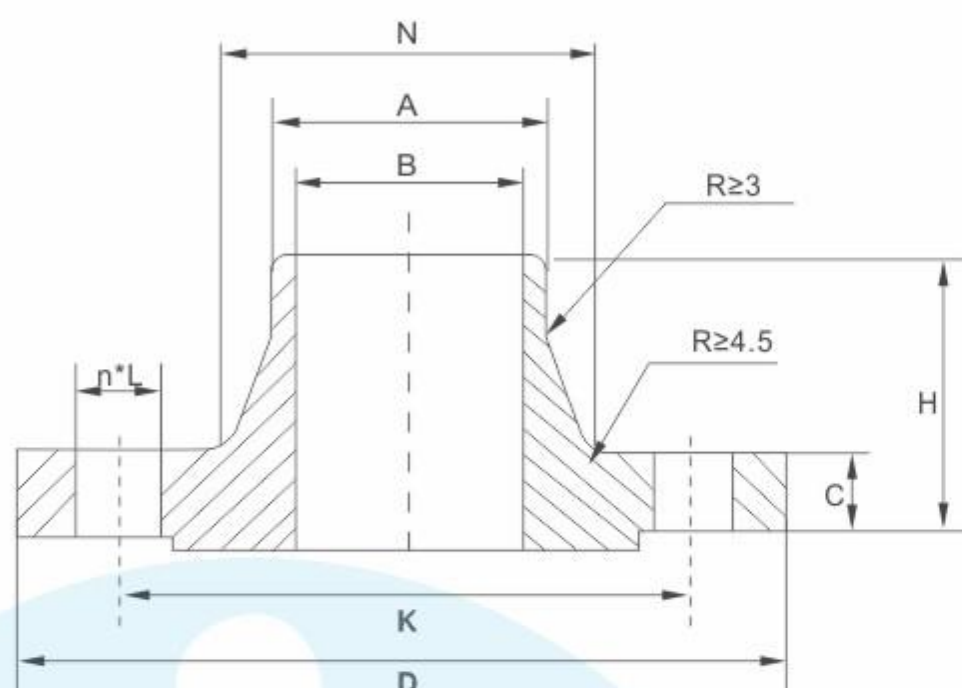
BUTT WELDING STEEL PIPE FLANGE WITH NECK



Class1500(PN260)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	120	82.6	22	4	M20	22.3	-	38	60
20	3/4	26.9	130	88.9	22	4	M20	25.4	-	44	70
25	1	33.7	150	101.6	26	4	M24	28.6	-	52	73
32	1 1/4	42.4	160	111.1	26	4	M24	28.6	-	64	73
40	1 1/2	48.3	180	123.8	30	4	M27	31.8	-	70	83
50	2	60.3	215	165.1	26	8	M24	38.1	-	105	102
65	2 1/2	76.1	245	190.5	30	8	M27	41.3	-	124	105
80	3	88.9	265	203.2	33	8	M30	47.7	-	133	117
100	4	114.3	310	241.3	36	8	M33	54.0	-	162	124
125	5	139.7	375	292.1	42	8	M39X3	73.1	-	197	156
150	6	168.3	395	317.5	39	12	M36X3	82.6	-	229	171
200	8	219.1	485	393.7	45	12	M42X3	92.1	-	292	213
250	10	273	585	482.6	51	12	M48X3	108.0	-	368	254
300	12	323.9	675	571.5	55	16	M52X3	123.9	-	451	283
350	14	355.6	750	635.0	60	16	M56X3	133.4	-	495	298
400	16	406.4	825	704.8	68	16	M64X3	146.1	-	552	311
450	18	457	915	774.7	74	16	M70X3	162.0	-	597	327
500	20	508	985	831.8	80	16	M76X3	177.8	-	641	356
600	24	610	1170	990.6	94	16	M90X3	203.2	-	762	406

HG/T20617-2009(WN)

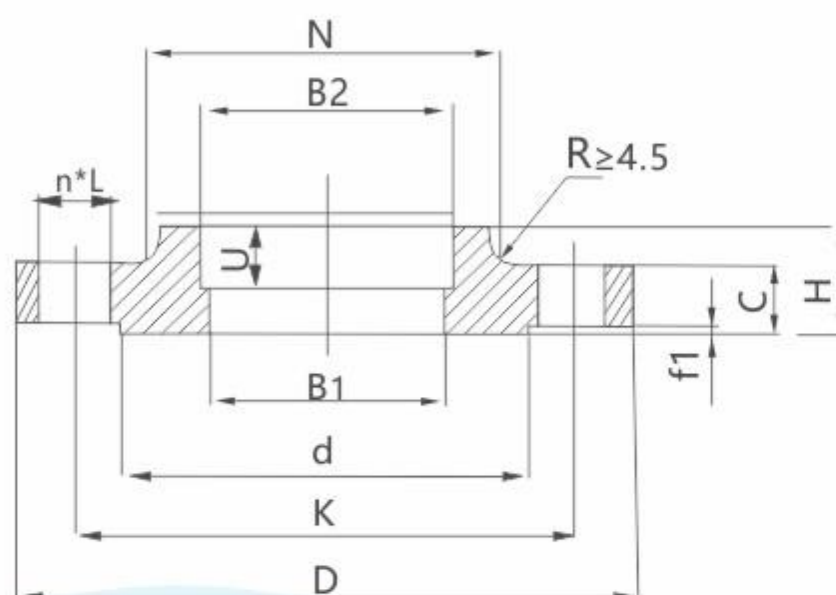
BUTT WELDING STEEL PIPE FLANGE WITH NECK

Class2500(PN420)

size		Steel tube Outside diameter	Connection size					Flange thickness	Flange bore	Flange neck large end	Flange height
DN	NPS	A	D	K	L	n	Th	C	B	N	H
15	1/2	21.3	135	88.9	22	4	M20	30.2	—	43	73
20	3/4	26.9	140	95.2	22	4	M20	31.8	—	51	79
25	1	33.7	160	108.0	26	4	M24	35.0	—	57	89
32	1 1/4	42.4	185	130.2	30	4	M27	38.1	—	73	95
40	1 1/2	48.3	205	146.0	33	4	M30	44.5	—	79	111
50	2	60.3	235	171.4	30	8	M27	50.9	—	95	127
65	2 1/2	76.1	265	196.8	33	8	M30	57.2	—	114	143
80	3	88.9	305	228.6	36	8	M33	66.7	—	133	168
100	4	114.3	355	273.0	42	8	M39X3	76.2	—	165	190
125	5	139.7	420	323.8	48	8	M45X3	92.1	—	203	229
150	6	168.3	485	368.3	55	8	M52X3	108.0	—	235	273
200	8	219.1	550	438.2	55	12	M52X3	127.0	—	305	318
250	10	273	675	539.8	68	12	M64X3	165.1	—	375	419
300	12	323.9	760	619.1	74	12	M70X3	184.2	—	441	464

HG/T20619-2009(SW)

SOCKET WELDED STEEL PIPE FLANGE



Class150(PN20)

(mm)

size		A	D		Connection size				c	B1		Socket jack			N	H	Kg
DN	NPS				K	L		n				B ₂	U				
15	½	21.3	90	88.9	60.3	16	15.7	4	9.6	15.5	15.7	22.5	22.4	10	30	14	0.42
20	¾	26.9	100	98.6	69.9	16	15.7	4	11.2	21	20.8	27.5	27.7	11	38	14	0.59
25	1	33.7	110	108	79.4	16	15.7	4	12.7	27	26.7	34.5	34.5	13	49	16	0.81
32	1¼	42.4	115	117.3	88.9	16	15.7	4	14.3	35	35.1	43.5	43.2	14	59	19	1.07
40	1½	48.3	125	127	98.4	16	15.7	4	15.9	41	40.9	49.5	49.5	16	65	21	1.36
50	2	60.3	150	152.4	120.7	18	19.1	4	17.5	52	52.6	61.5	62	17	78	24	2.1
65	2½	76.1	180	177.8	139.7	18	19.1	4	20.7	66	62.7	77.6	74.7	19	90	27	3.33
80	3	88.9	190	190.5	152.4	18	19.1	4	22.3	77.5	78	90.5	90.7	21	108	29	3.9

Note: The inner diameter of the flange B1 is determined by the wall thickness of the steel pipe, and the user should indicate it when ordering or determine it according to Appendix C of this standard. The inner diameter of the listed flange B1 is equivalent to the wall thickness of the steel pipe Sch40.

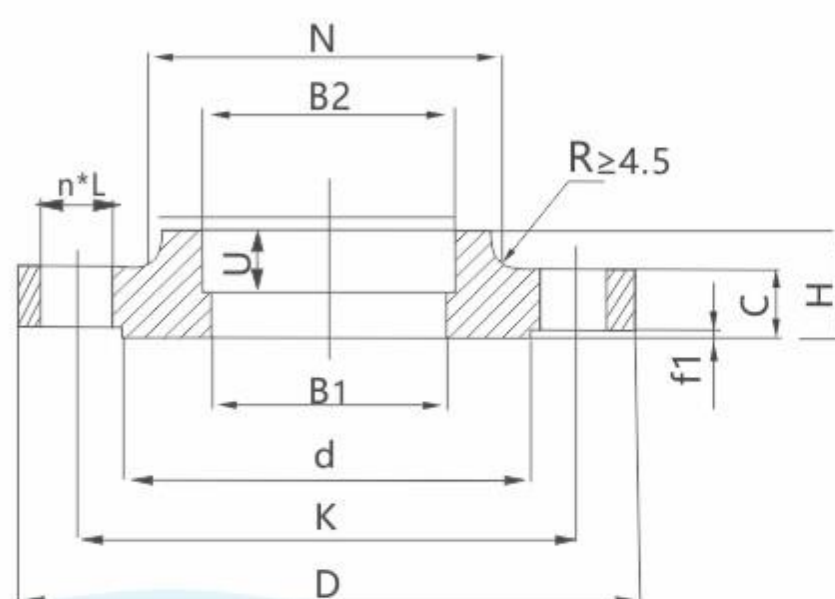
Class300(PN50)

15	½	21.3	95	88.9	66.7	16	15.7	4	12.7	15.5	15.7	22.5	22.4	10	38	21	0.66
20	¾	26.9	115	98.6	82.6	18	15.7	4	14.3	21	20.8	27.5	27.7	11	48	24	1.15
25	1	33.7	125	108	88.9	18	15.7	4	15.9	27	26.7	34.5	34.5	13	54	25	1.4
32	1¼	42.4	135	117.3	98.4	18	15.7	4	17.5	35	35.1	43.5	43.2	14	64	25	1.75
40	1½	48.3	155	127	114.3	22	15.7	4	19.1	41	40.9	49.5	49.5	16	70	29	2.55
50	2	60.3	165	152.4	127.0	18	19.1	8	20.7	52	52.6	61.5	62	17	84	32	2.93
65	2½	76.1	190	177.8	149.2	22	19.1	8	23.9	66	62.7	77.6	74.7	19	100	37	4.4
80	3	88.9	210	190.5	168.3	22	19.1	8	27.0	77.5	78	90.5	90.7	21	117	41	5.92

Note: The inner diameter of the flange B1 is determined by the wall thickness of the steel pipe, and the user should indicate it when ordering or determine it according to Appendix C of this standard. The inner diameter of the listed flange B1 is equivalent to the wall thickness of the steel pipe Sch40.

HG/T20619-2009(SW)

SOCKET WELDED STEEL PIPE FLANGE



Class600(PN110)

(mm)

size		A	D		Connection size			c	B1		Socket jack		N	H	Kg	
DN	NPS				K	L	n				B ₂	U				
15	½	21.3	95	88.9	66.7	16	15.7	4	14.3	-	22.5	22.4	10	38	22	0.76
20	¾	26.9	115	98.6	82.6	18	15.7	4	15.9	-	27.5	27.7	11	48	25	1.29
25	1	33.7	125	108	88.9	18	15.7	4	17.5	-	34.5	34.5	13	54	27	1.55
32	1¼	42.4	135	117.3	98.4	18	15.7	4	20.7	-	43.5	43.2	14	64	29	2.06
40	1½	48.3	155	127	114.3	22	15.7	4	22.3	-	49.5	49.5	16	70	32	3.00
50	2	60.3	165	152.4	127.0	18	19.1	8	25.4	-	61.5	62	17	84	37	3.67
65	2½	76.1	190	177.8	149.2	22	19.1	8	28.6	-	77.6	74.7	19	100	41	5.35
80	3	88.9	210	190.5	168.3	22	19.1	8	31.8	-	90.5	90.7	21	117	46	7.06

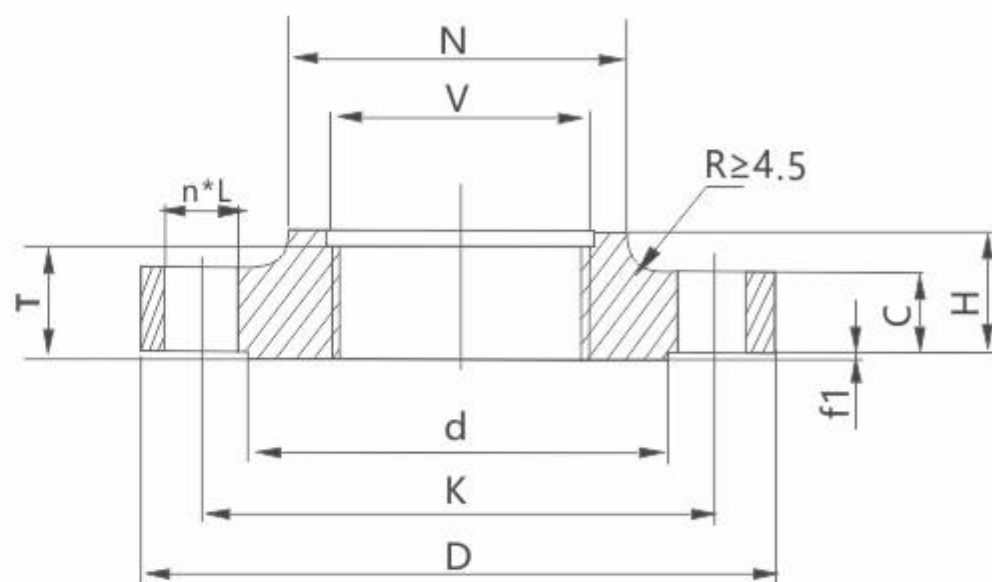
Note: The inner diameter of the flange B1 is determined by the wall thickness of the steel pipe, and the user should indicate it when ordering or determine it according to Appendix C of this standard. The inner diameter of the listed flange B1 is equivalent to the wall thickness of the steel pipe Sch40.

Class900(PN150) / Class1500(PN260)

15	½	21.3	120	120.6	82.6	22	22.3	4	22.3	-	22.5	22.4	10	38	32	1.8
20	¾	26.9	130	130	88.9	22	22.3	4	25.4	-	27.5	27.7	11	44	35	2.41
25	1	33.7	150	149.3	101.6	26	25.4	4	28.6	-	34.5	34.5	13	52	41	3.55
32	1¼	42.4	160	158.7	111.1	26	25.4	4	28.6	-	43.5	43.2	14	64	41	4.02
40	1½	48.3	180	177.8	123.8	30	28.4	4	31.8	-	49.5	49.5	16	70	44	5.45
50	2	60.3	215	215.9	165.1	26	25.4	8	38.1	-	61.5	62	17	105	57	10.2
65	2½	76.1	245	244.3	190.5	30	28.4	8	41.3	-	77.6	74.7	19	124	64	13.9

Note: The inner diameter of the flange B1 is determined by the wall thickness of the steel pipe, and the user should indicate it when ordering or determine it according to Appendix C of this standard. The inner diameter of the listed flange B1 is equivalent to the wall thickness of the steel pipe Sch40.

HG/T20620-2009(Th)

REBAR PIPE FLANGE


Class150(PN20)

(mm)

size		A	D		Connection size			c	N	H	Rc/NPT	Kg	
DN	NPS				K	L	n						
15	½	21.3	90	88.9	60.3	16	15.7	4	9.6	30	14	½	0.39
20	¾	26.9	100	98.6	69.9	16	15.7	4	11.2	38	14	¾	0.56
25	1	33.7	110	108	79.4	16	15.7	4	12.7	49	16	1	0.78
32	1¼	42.4	115	117.3	88.9	16	15.7	4	14.3	59	19	1¼	1.03
40	1½	48.3	125	127	98.4	16	15.7	4	15.9	65	21	1½	1.32
50	2	60.3	150	152.4	120.7	18	19.1	4	17.5	78	24	2	2.06
65	2½	76.1	180	177.8	139.7	18	19.1	4	20.7	90	27	2½	3.28
80	3	88.9	190	190.5	152.4	18	19.1	4	22.3	108	29	3	3.85
100	4	114.3	230	228.6	190.5	18	19.1	8	22.3	135	32	4	5.3
125	5	139.7	255	254	215.9	22	22.4	8	22.3	164	35	5	6.07
150	6	168.3	280	279.4	241.3	22	22.4	8	23.9	192	38	6	7.45

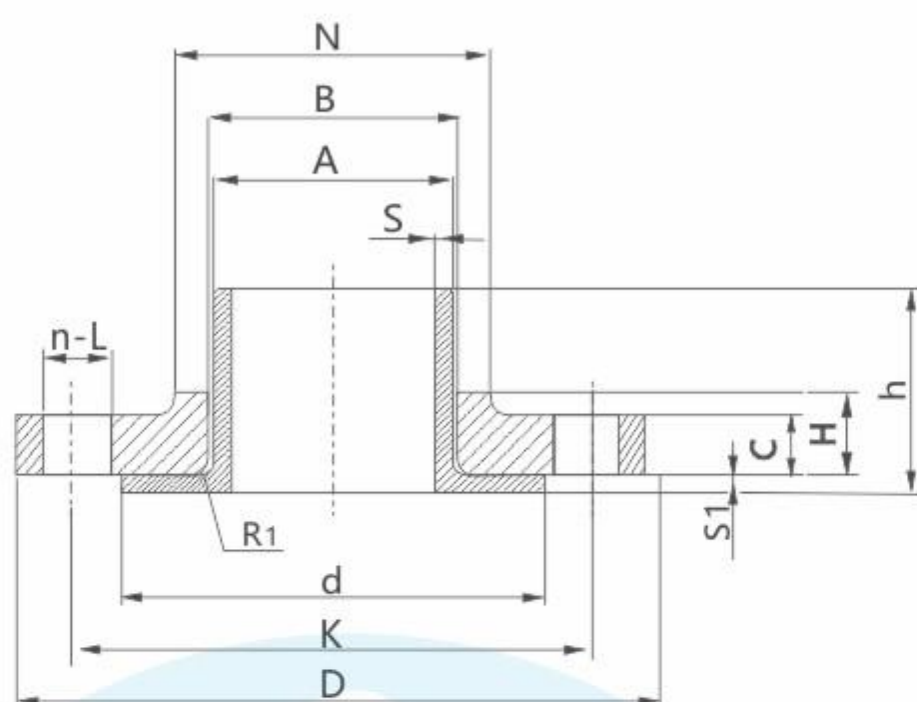
Class300(PN50)

(mm)

size		A	Connection size					n	c	N	H	H	V	Rc/NPT	Kg
DN	NPS		D		K	L									
15	½	21.3	95	88.9	66.7	16	15.7	4	12.7	38	21	16	23.6	½	0.64
20	¾	26.9	115	98.6	82.6	18	15.7	4	14.3	48	24	16	29.0	¾	1.12
25	1	33.7	125	108	88.9	18	15.7	4	15.9	54	25	18	35.8	1	1.36
32	1¼	42.4	135	117.3	98.4	18	15.7	4	17.5	64	25	21	44.4	1¼	1.68
40	1½	48.3	155	127	114.3	22	15.7	4	19.0	70	29	23	50.3	1½	2.49
50	2	60.3	165	152.4	127.0	18	19.1	8	20.7	84	32	29	63.5	2	2.87
65	2½	76.1	190	177.8	149.2	22	19.1	8	23.9	100	37	32	76.2	2½	4.32
80	3	88.9	210	190.5	168.3	22	19.1	8	27.0	117	41	32	92.2	3	5.85
100	4	114.3	255	228.6	200.0	22	19.1	8	30.2	146	46	37	117.6	4	9.61
125	5	139.7	280	254	235.0	22	22.4	8	33.4	178	49	43	144.4	5	12.3
150	6	168.3	320	279.4	269.9	22	22.4	12	35.0	206	51	47	171.4	6	15.6

BUTT RING LOOSE SLEEVE STEEL PIPE FLANGE (LF WITH NECK LOOSE SLEEVE/BUTT RING SE)

HG/T20621-2009(LF/SE)



Class150(PN20)

(mm)

size		A	D		Connection size			c	B	N	H	R ₁	Butt-welded ring		Kg	
DN	NPS				K	L	n						h	d		
15	½	21.3	90	88.9	60.3	16	15.7	4	11.2	22.9	30	16	3	51	34.9	0.38
20	¾	26.9	100	98.6	69.9	16	15.7	4	12.7	28.2	38	16	3	51	42.9	0.55
25	1	33.7	110	108	79.4	16	15.7	4	14.3	34.9	49	17	3	51	50.8	0.76
32	1¼	42.4	115	117.3	88.9	16	15.7	4	15.9	43.7	59	21	5	51	63.5	1.01
40	1½	48.3	125	127	98.4	16	15.7	4	17.5	50.0	65	22	6	51	73.0	1.3
50	2	60.3	150	152.4	120.7	18	19.1	4	19.1	62.5	78	25	8	64	92.1	2.03
65	2½	76.1	180	177.8	139.7	18	19.1	4	22.3	78.5/75.4	90	29	8	64	104.8	3.25
80	3	88.9	190	190.5	152.4	18	19.1	4	23.9	91.4	108	30	10	64	127.0	3.81
100	4	114.3	230	228.6	190.5	18	19.1	8	23.9	116.8	135	33	11	76	157.2	5.25
125	5	139.7	255	254	215.9	22	22.4	8	23.9	144.4	164	36	11	76	185.7	6.02
150	6	168.3	280	278.4	241.3	22	22.4	8	25.4	171.4	192	40	13	89	215.9	7.4
200	8	219.1	345	342.9	298.58	22	22.4	8	28.6	222.2	246	44	13	102	269.9	12.1
250	10	273	405	406.4	362.0	26	25.4	12	30.2	277.4	305	49	13	127	323.8	16.4
300	12	323.9	485	482.6	431.8	26	25.4	12	31.8	328.2	365	56	13	152	381.0	26.1
350	14	355.6	535	533.4	476.2	30	28.4	12	35.0	360.2	400	79	13	152	412.8	34.5
400	16	406.4	595	596.9	539.8	30	28.4	16	36.6	411.2	457	87	13	152	469.9	44.6
450	18	457	635	635	577.9	33	31.75	16	39.7	462.3	505	97	13	152	533.4	48.7
500	20	508	700	698.5	635.0	33	31.75	20	42.9	514.4	559	103	13	152	584.2	61.6
600	24	610	815	812.8	749.3	36	35.1	20	47.7	616.0	663	111	13	152	692.2	86.6



Class300(PN50)

(mm)

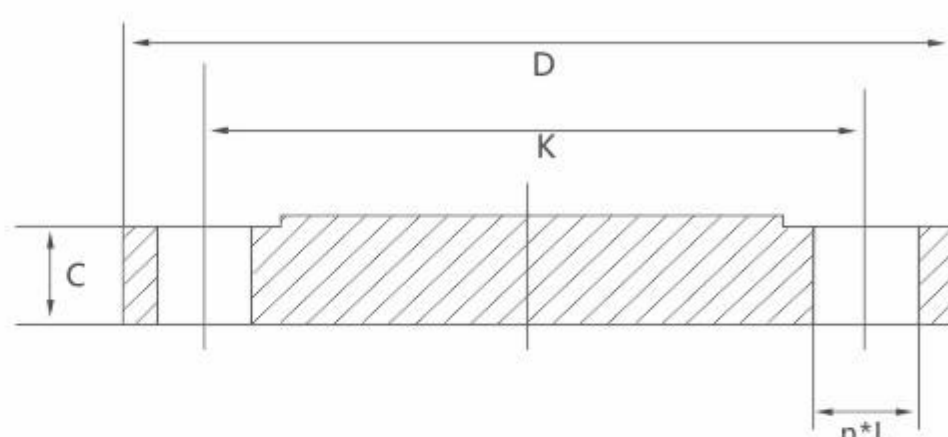
size		A	D		Connection size			c	B	N	H	R ₁	Butt-welded ring		Kg	
DN	NPS				K	L	n						h	d		
15	½	21.3	95	88.9	66.7	16	15.7	4	14.3	22.9	38	22	3	51	34.9	0.62
20	¾	26.9	115	98.6	82.6	18	15.7	4	15.9	28.2	48	25	3	51	42.9	1.1
25	1	33.7	125	108	88.9	18	15.7	4	17.5	34.9	54	27	3	51	50.8	1.33
32	1¼	42.4	135	117.3	98.4	18	15.7	4	19.1	43.7	64	27	5	51	63.5	1.65
40	1½	48.3	155	127	114.3	22	15.7	4	20.7	50.0	70	30	6	51	73.0	2.44
50	2	60.3	165	152.4	127.0	18	19.1	8	22.3	62.5	84	33	8	64	92.1	2.83
65	2½	76.1	190	177.8	149.2	22	19.1	8	25.4	78.5/75.4	100	38	8	64	104.8	4.25
80	3	88.9	210	190.5	168.3	22	19.1	8	28.6	91.4	117	43	10	64	127.0	5.78
100	4	114.3	255	228.6	200.0	22	19.1	8	31.8	116.8	146	48	11	76	157.2	9.55
125	5	139.7	280	254	235.0	22	22.4	8	35.0	144.4	178	51	11	76	185.7	12.2
150	6	168.3	320	279.4	269.9	22	22.4	12	36.6	171.4	206	52	13	89	215.9	15.5
200	8	219.1	380	342.9	330.2	26	22.4	12	41.3	222.2	260	62	13	102	269.9	24.1
250	10	273	445	406.4	387.4	30	25.4	16	47.7	277.1	321	95	13	254	323.8	34.4
300	12	323.9	520	482.6	450.8	33	25.4	16	50.8	328.2	375	102	13	254	381.0	50.4
350	14	355.6	585	533.4	514.4	33	28.4	20	54.0	360.2	425	111	13	305	412.8	70.9
400	16	406.4	650	596.9	571.5	36	28.4	20	57.2	411.2	483	121	13	305	469.9	89.5
450	18	457	710	635	628.6	36	31.75	24	60.4	462.3	533	130	13	305	533.4	111
500	20	508	775	698.5	685.8	36	31.75	24	63.5	514.4	587	140	13	305	584.2	137
600	24	610	915	812.8	812.8	42	35.1	24	69.9	616.0	702	152	13	305	692.2	204

Class600(PN110) 对焊环松套钢制管法兰

15	½	21.3	95	88.9	66.7	16	15.7	4	14.3	22.9	38	22	3	76	34.9	0.72
20	¾	26.9	115	98.6	82.6	18	15.7	4	15.9	28.2	48	25	3	76	42.9	1.25
25	1	33.7	125	108	88.9	18	15.7	4	17.5	34.9	54	27	3	102	50.8	1.5
32	1¼	42.4	135	117.3	98.4	18	15.7	4	20.7	43.7	64	29	5	102	63.5	2
40	1½	48.3	155	127	114.3	22	15.7	4	22.3	50.0	70	32	6	102	73.0	2.92
50	2	60.3	165	152.4	127.0	18	19.1	8	25.4	62.5	84	37	8	152	92.1	3.55
65	2½	76.1	190	177.8	149.2	22	19.1	8	28.6	78.5/75.4	100	41	8	152	104.8	5.23
80	3	88.9	210	190.5	168.3	22	19.1	8	31.8	91.4	117	46	10	152	127.0	6.95
100	4	114.3	275	228.6	215.9	26	19.1	8	38.1	116.8	152	54	11	152	157.2	14.4
125	5	139.7	330	254	266.7	30	22.4	8	44.5	144.4	189	60	11	203	185.7	24.3
150	6	168.3	355	279.4	292.1	30	22.4	12	47.7	171.4	222	67	13	203	215.9	28.5
200	8	219.1	420	342.9	349.2	33	22.4	12	55.6	222.2	273	76	13	203	269.9	43.1
250	10	273	510	406.4	431.8	36	25.4	16	63.5	277.4	343	111	13	254	323.8	70.5
300	12	323.9	560	482.6	489.0	36	25.4	20	66.7	328.2	400	117	13	254	381.0	86.1
350	14	355.6	605	533.4	527.0	39	28.4	20	69.9	360.2	432	127	13	305	412.8	100
400	16	406.4	685	596.9	603.2	42	28.4	20	76.2	411.2	495	140	13	305	469.9	145
450	18	457	745	635	654.0	45	31.75	20	82.6	462.3	546	152	13	305	533.4	177
500	20	508	815	698.5	723.9	45	31.75	24	88.9	514.4	610	165	13	305	584.2	225
600	24	610	940	812.8	838.2	51	35.1	24	101.6	616.0	718	184	13	305	692.2	318

HG/T20622-2009(BL)

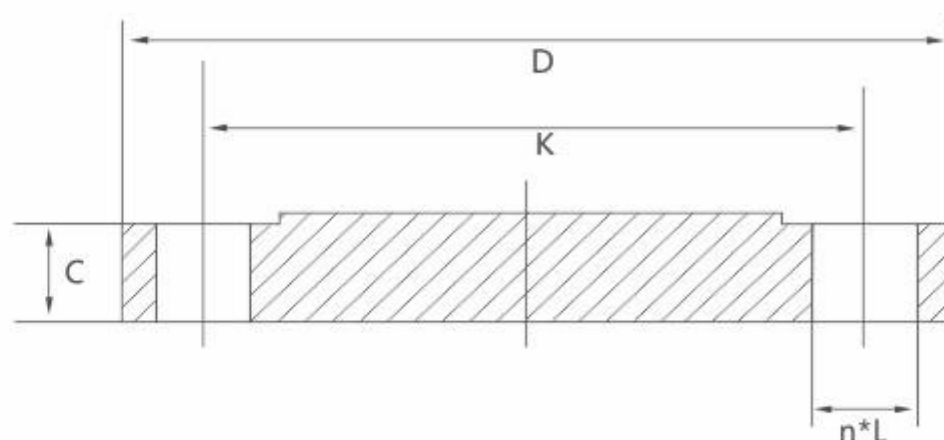
STEEL PIPE FLANGE COVER



Class150(PN20)

size		Connection size					Flange thickness
DN	NPS	D	K	L	n	Th	C
15	1/2	90	60.3	16	4	M14	9.6
20	3/4	100	69.9	16	4	M14	11.2
25	1	110	79.4	16	4	M14	12.7
32	1 1/4	115	88.9	16	4	M14	14.3
40	1 1/2	125	98.4	16	4	M14	15.9
50	2	150	120.7	18	4	M16	17.5
65	2 1/2	180	139.7	18	4	M16	20.7
80	3	190	152.4	18	4	M16	22.3
100	4	230	190.5	18	8	M16	22.3
125	5	255	215.9	22	8	M20	22.3
150	6	280	241.3	22	8	M20	23.9
200	8	345	298.58	22	8	M20	27.0
250	10	405	362.0	26	12	M24	28.6
300	12	485	431.8	26	12	M24	30.2
350	14	535	476.3	30	12	M27	33.4
400	16	595	539.8	30	16	M27	35.0
450	18	635	577.9	33	16	M30	38.1
500	20	700	635.0	33	20	M30	41.3
600	24	815	749.3	36	20	M33	46.1

HG/T20622-2009(BL)

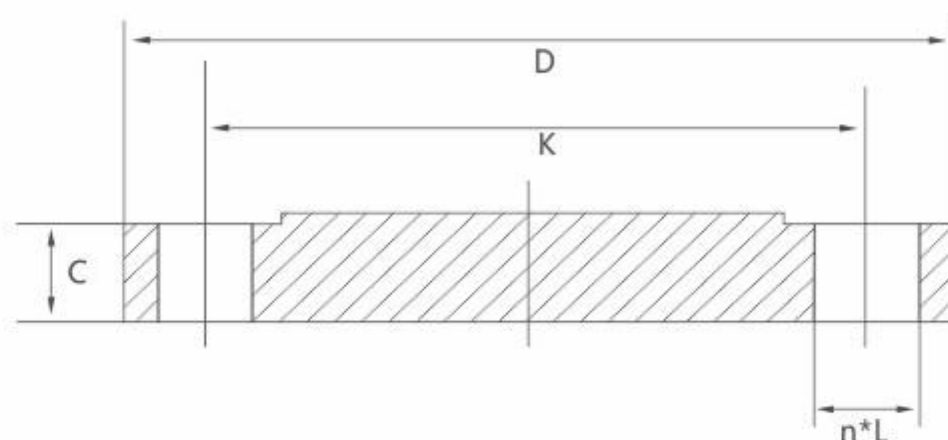
STEEL PIPE FLANGE COVER


Class300(PN50)

size		Connection size					Flange thickness
DN	NPS	D	K	L	n	Th	C
15	1/2	95	66.7	16	4	M14	12.7
20	3/4	115	82.6	18	4	M16	14.3
25	1	125	88.9	18	4	M16	15.9
32	1 1/4	135	98.4	18	4	M16	17.5
40	1 1/2	155	114.3	22	4	M20	19.1
50	2	165	127.0	18	8	M16	20.7
65	2 1/2	190	149.2	22	8	M20	23.9
80	3	210	168.3	22	8	M20	27.0
100	4	255	200.0	22	8	M20	30.2
125	5	280	235.0	22	8	M20	33.4
150	6	320	269.9	22	12	M20	35.0
200	8	380	330.2	26	12	M24	39.7
250	10	445	387.4	30	16	M27	46.1
300	12	520	450.8	33	16	M30	49.3
350	14	585	514.4	33	20	M30	52.4
400	16	650	571.5	36	20	M33	55.6
450	18	710	628.6	36	24	M33	58.8
500	20	775	685.8	36	24	M33	62.0
600	24	915	812.8	42	24	M39X3	68.3

HG/T20622-2009(BL)

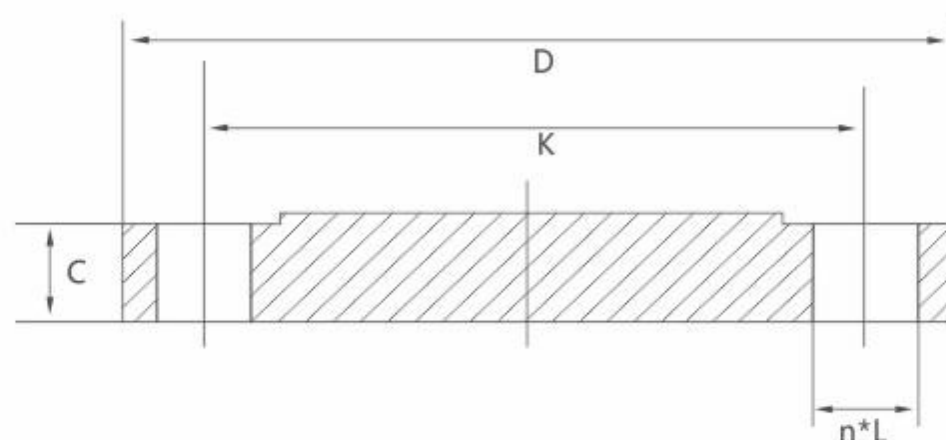
STEEL PIPE FLANGE COVER



Class600(PN110)

size		Connection size					Flange thickness
DN	NPS	D	K	L	n	Th	C
15	1/2	95	66.7	16	4	M14	14.3
20	3/4	115	82.6	18	4	M16	15.9
25	1	125	88.9	18	4	M16	17.5
32	1 1/4	135	98.4	18	4	M16	20.7
40	1 1/2	155	114.3	22	4	M20	22.3
50	2	165	127.0	18	8	M16	25.4
65	2 1/2	190	149.2	22	8	M20	28.6
80	3	210	168.3	22	8	M20	31.8
100	4	275	215.9	26	8	M24	38.1
125	5	330	266.7	30	8	M27	44.5
150	6	355	292.1	30	12	M27	47.7
200	8	420	349.2	33	12	M30	55.6
250	10	510	431.8	36	16	M33	63.5
300	12	560	489.0	36	20	M33	66.7
350	14	605	527.0	39	20	M36X3	69.9
400	16	685	603.2	42	20	M39X3	76.2
450	18	745	654.0	45	20	M42X3	82.6
500	20	815	723.9	45	24	M42X3	88.9
600	24	940	838.2	51	24	M48X3	101.6

HG/T20622-2009(BL)

STEEL PIPE FLANGE COVER


Class900(PN150)

size		Connection size					Flange thickness
DN	NPS	D	K	L	n	Th	C
15	1/2	120	82.6	22	4	M20	22.3
20	3/4	130	88.9	22	4	M20	25.4
25	1	150	101.6	26	4	M24	28.6
32	1 1/4	160	111.1	26	4	M24	28.6
40	1 1/2	180	123.8	30	4	M27	31.8
50	2	215	165.1	26	8	M24	38.1
65	2 1/2	245	190.5	30	8	M27	41.3
80	3	240	190.5	26	8	M24	38.1
100	4	290	235.0	33	8	M30	44.5
125	5	350	279.4	36	8	M33	50.8
150	6	380	317.5	33	12	M30	55.6
200	8	470	393.7	39	12	M36X3	63.5
250	10	545	469.9	39	16	M36X3	69.9
300	12	610	533.4	39	20	M36X3	79.4
350	14	640	558.8	42	20	M39X3	85.8
400	16	705	616.0	45	20	M42X3	88.9
450	18	785	685.8	51	20	M48X3	101.6
500	20	855	749.3	55	20	M52X3	108.0
600	24	1040	901.7	68	20	M64X3	139.7

HG/T20622-2009(BL)

STEEL PIPE FLANGE COVER

Class1500(PN260)

size		Connection size					Flange thickness
DN	NPS	D	K	L	n	Th	C
15	1/2	120	82.6	22	4	M20	22.3
20	3/4	130	88.9	22	4	M20	25.4
25	1	150	101.6	26	4	M24	28.6
32	1 1/4	160	111.1	26	4	M24	28.6
40	1 1/2	180	123.8	30	4	M27	31.8
50	2	215	165.1	26	8	M24	38.1
65	2 1/2	245	190.5	30	8	M27	41.3
80	3	265	203.2	33	8	M30	47.7
100	4	310	241.3	36	8	M33	54.0
125	5	375	292.1	42	8	M39X3	73.1
150	6	395	317.5	39	12	M36X3	82.6
200	8	485	393.7	45	12	M42X3	92.1
250	10	585	482.6	51	12	M48X3	108.0
300	12	675	571.5	55	16	M52X3	123.9
350	14	750	635.0	60	16	M56X3	133.4
400	16	825	704.8	68	16	M64X3	146.1
450	18	915	774.7	74	16	M70X3	162.0
500	20	985	831.8	80	16	M76X3	177.8
600	24	1170	990.6	94	16	M90X3	203.2

Class2500(PN420)

size		Connection size					Flange thickness
DN	NPS	D	K	L	n	Th	C
15	1/2	135	88.9	22	4	M20	30.2
20	3/4	140	95.2	22	4	M20	31.8
25	1	160	108.0	26	4	M24	35.0
32	1 1/4	185	130.2	30	4	M27	38.1
40	1 1/2	205	146.0	33	4	M30	44.5
50	2	235	171.4	30	8	M27	50.9
65	2 1/2	265	196.8	33	8	M30	57.2
80	3	305	228.6	36	8	M33	66.7
100	4	355	273.0	42	8	M39X3	76.2
125	5	420	323.8	48	8	M45X3	92.1
150	6	485	368.3	55	8	M52X3	108.0
200	8	550	438.2	55	12	M52X3	127.0
250	10	675	539.8	68	12	M64X3	165.1
300	12	760	619.1	74	12	M70X3	184.2



HG20615-2009

HG20615-2009 DIMENSIONAL TOLERANCE

item	Flange type	Size range	Dimensional tolerance
Inside Diameter B	Butt welded flange Socket welding flange	$\leq$ DN250	± 1.0
		DN300~DN450	± 1.5
		$\geq$ DN500	+3.0 -1.5
	Flat welded flange with neck Loose sleeve flange Socket welding flange Socket jack	$\leq$ DN250	+1.0 0
		$\geq$ DN300	+1.5 0
Flange thickness C	Flanges of all forms for double-sided machining (including counterfacing)	$\leq$ DN450	+3.0 0
		$\geq$ DN500	+5.0 0
Flange height H	Neck flange	$\leq$ DN250	± 1.6
		$\geq$ DN300	± 3.2
Butt welded flange outer diameter A	Flange with neck butt welding	$\leq$ DN125	+2.0 -1.0
		$\geq$ DN150	+4.0 -1.0
Flange table outside diameter d(except ring joint)	All forms	2.0	± 1.0
		7.0	± 0.5
Bolt hole center circle diameter K	All forms	—	± 1.5
Spacing between adjacent bolt holes	All forms	—	± 0.8
Bolt hole diameter L	All forms	—	± 0.5
Coaxial deviation of bolt hole, center circle and machining sealing surface	All forms	$\leq$ DN65	< 0.8
		$\geq$ DN80	< 1.5
Parallelism between sealing surface and bolt support surface	All forms		$< 1^\circ$
Flange height f1(except ring joint)	All forms	2	0 -1.0
Ring joint flange table height E	All forms	—	± 1.0
Height of concave/convex and tenon/groove surfaces f2, f3	All forms	—	+0.5 0
Diameter of concave/convex and mortise/groove surfaces	X、Z	All forms	0 -0.5
	W、Y		+0.5 0

DIMENSIONAL TOLERANCE OF BUTT WELDING RING FOR LOOSE FLANGE

item	Size range	Dimensional tolerance
Butt welded ring end diameter A	DN15~DN65	+1.6 -0.8
	DN80~DN100	±1.6
	DN80~DN200	+2.4 -1.6
	≥DN250	+4.0 -3.2
Butt welded ring bore B	DN15~DN65	±0.8
	DN80~DN200	±1.6
	≥DN250	±3.2
Butt welded ring length h	—	2
Butt welding ring sealing surface outer diameter d	DN15~DN200	0 -1
	≥DN250	0 -2
Rounding radius R2	DN15~DN80	0 -1
	≥DN100	0 -2
Butt ring flanging thickness T		+1.6 -12.5%

DIMENSIONAL TOLERANCE OF RING CONNECTING SURFACE

item	尺寸公差
Ring groove depth E	±0.4 0
Ring groove top width F	±0.2
Ring groove center circle diameter P	±0.13
Ring groove Angle 23°	±0.5°
Ring groove fillet Rmax	Rmax≤2 +0.8 0
	Rmax > 2 ±0.8
Outer diameter of sealing surface D	±0.5