

Global Consulting Inc.

"Managing projects to success"

FORGED FLANGES



FORGED FLANGES

























A.) Type Range

- 1.Welding-Neck
- 3. Screwed
- 5. Lap Joint

- 2. Slip on
- 4. Blind
- 6. Socket-welding

B.) Materials

Steel grade ASME A/SA 182 F304/304L, F316/316L, F321H, F347H, F304H, etc. Duplex steel ASME A/SA F51, G53, F60, etc

C.) Size

1/2" to 24" (DN15-DN600)

D.) Standard

- 1. American standard flange ASME B16.5: 150#, 300#, 600#, 900#, 1500#, 2500#,
- 2. DIN standard flange: PN6, PN10, PN25, PN40, PN64, PN100, PN160,
- 3. BS EN1092-1 Flange: PN10, PN16, PN25, PN 40
- 4. Plate flange made from ASTM A240 plate or cast in conformance with ASTM A351

Customized flange is welcome.



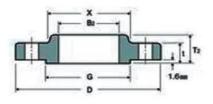


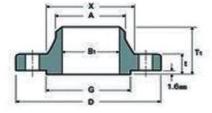
CLASS 150 CARBON STEEL AND STAINLESS STEEL

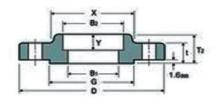












SLIP-ON

WELDING NECK

SOCKET WELDING

ANSI B16.5 FORGED FLANGES

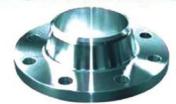
Nominal Pipe Size	Outside Diam.	O.D of Raised Face	Diam. at Base of Hub			BORE		LENG	TH THRU	HUB	Diam. of Hub at Bever	Radius of Fillet	
				Thick- ness	Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			Thread Length
	D	G	Х	1	B1	B2	B3	T1	T2	T3	Α	R	Q
1/2	89	35.1	30.2	11.2	15.7	22.4	22.9	47.8	15.7	15.7	21.3	3.0	15.7
3/4	99	42.9	38.1	12.7	20.8	27.7	28.2	52.3	15.7	15.7	26.7	3.0	15.7
1	108	50.8	49.3	14.2	26.7	34.5	35.1	55.6	17.5	17.5	33.5	3.0	17.5
1 1/4	117	63.5	58.7	15.7	35.1	43.2	43.7	57.2	20.6	20.6	42.2	4.8	20.6
11/2	127	73.2	65.0	17.5	40.9	49.5	50.0	62.0	22.4	22.4	48.3	6.4	22.4
2	152	91.9	77.7	19.1	52.6	62.0	62.5	63.5	25.4	25.4	60.5	7.9	25.4
21/2	178	104.6	90.4	22.4	62.7	74.7	75.4	69.9	28.4	28.4	73.2	7.9	28.4
3	191	127.0	108.0	23.9	78.0	90.7	91.4	69.9	30.2	30.2	88.9	9.7	30.2
31/2	216	139.7	122.2	23.9	90.2	103.4	104.1	71.1	31.8	31.8	101.6	9.7	31.8
4	229	157.2	134.9	23.9	102.4	116.1	116.8	76.2	33.3	33.3	114.3	11.2	33.3
5	254	185.7	163.6	23.9	128.3	143.8	144.5	88.9	36.6	36.6	141.2	11.2	36.6
6	279	215.9	192.0	25.4	154.2	170.7	171.5	88.9	39.6	39.6	168.4	12.7	39.6
8	343	269.7	246.1	28.4	202.7	221.5	222.3	101.6	44.5	44.5	219.2	12.7	44.5
10	406	323.9	304.8	30.2	254.5	276.4	277.4	101.6	49.3	49.3	273.1	12.7	49.3
12	483	381.0	365.3	31.8	304.8	327.2	328.2	114.3	55.6	55.6	323.9	12.7	55.6
14	533	412.8	400.1	35.1	336.6	359.2	360.2	127.0	57.2	79.2	355.6	12.7	57.2
16	597	469.9	457.2	36.6	387.4	410.5	411.2	127.0	63.5	87.4	406.4	12.7	63.5
18	635	533.4	505.0	39.6	438.2	461.8	462.3	139.7	68.3	93.8	457.2	12.7	68.3
20	699	584.2	558.8	42.9	489.0	513.1	514.4	144.5	73.2	103.1	508.0	12.7	73.2
24	813	692.2	663.4	47.8	590.6	616.0	616.0	152.4	82.6	111.3	609.6	12.7	82.6



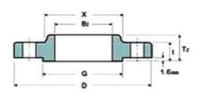


CLASS 300 CARBON STEEL AND STAINLESS STEEL

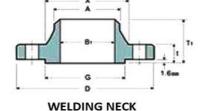


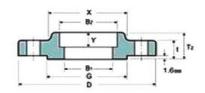






SLIP-ON





SOCKET WELDING

ANSI B16.5 FORGED FLANGES

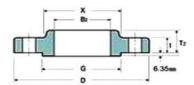
	Outside Diam.	Diam. at Base of Hub	at Base Raised			ВО	RE		LENG	TH THRU	JHUB	Diam of Hub at Bever	Radius of Fillet	Thread Length
Nominal Pipe Size				Thick- ness	Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min. Threaded Min.	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint			
	D	Х	G	1	B1	B2	В3	В	T1	T2	T3	Α	R	Q
1/2	95	38.1	35.1	14.2	15.7	22.4	22.9	23.6	52.3	22.4	22.4	21.3	3.0	15.7
3/4	117	47.8	42.9	15.7	20.8	27.7	28.2	29.0	57.2	25.4	25.4	26.7	3.0	15.7
1	124	53.8	50.8	17.5	26.7	34.5	35.1	35.8	62.0	26.9	26.9	33.5	3.0	17.5
1 1/4	133	63.5	63.5	19.1	35.1	43.2	43.7	44.5	65.0	26.9	26.9	42.2	4.8	20.8
1 1/2	155	69.9	73.2	20.6	40.9	49.5	50.0	50.5	68.3	30.2	30.2	48.3	6.4	22.4
2	165	84.1	91.9	22.4	52.6	62.0	62.5	63.5	69.9	33.3	33.3	60.5	7.9	28.4
21/2	191	100.1	104.6	25.4	62.7	74.7	75.4	76.2	76.2	38.1	38.1	73.2	7.9	31.8
3	210	117.3	127.0	28.4	78.0	90.7	91.4	92.2	79.2	42.9	42.9	88.9	9.7	31.8
31/2	229	133.4	139.7	30.2	90.2	103.4	104.1	104.9	81.0	44.5	44.5	101.6	9.7	36.6
4	254	146.1	157.2	31.8	102.4	116.1	116.8	117.6	85.9	47.8	47.8	114.3	11.2	36.6
5	279	117.8	185.7	35.1	128.3	143.8	144.5	144.5	98.6	50.8	50.8	141.2	11.2	42.9
6	318	206.2	215.9	36.6	154.2	170.7	171.5	171.5	98.6	52.3	52.3	166.4	12.7	46.0
8	381	260.4	269.7	41.1	202.7	221.5	222.3	222.3	111.3	62.0	62.0	219.2	12.7	50.0
10	445	320.5	323.9	47.8	254.5	276.4	277.4	276.4	117.3	66.5	95.3	273.1	12.7	55.6
12	521	374.7	381.0	50.8	304.8	327.2	328.2	328.7	130.0	73.2	101.6	323.9	12.7	60.5
14	584	425.5	412.8	53.8	336.6	359.2	360.2	360.4	142.7	76.2	111.3	355.6	12.7	63.5
16	648	482.6	469.9	57.2	387.4	410.5	411.2	411.2	146.1	82.6	120.7	406.4	12.7	68.3
18	711	533.4	533.4	60.5	438.2	461.8	462.3	462.0	158.8	88.9	130.0	457.2	12.7	69.9
20	775	587.2	584.2	63.5	489.0	513.1	514.4	512.8	162.1	95.3	139.7	508.0	12.7	73.2
24	914	701.5	692.2	69.9	590.6	616.0	616.0	614.4	168.1	106.4	152.4	609.6	12.7	82.6



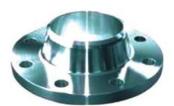


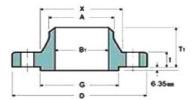
CLASS 400 CARBON STEEL AND STAINLESS STEEL





SLIP-ON





WELDING NECK

ANSI B16.5 FORGED FLANGES

	Outside Diam.					ВО	RE		LENG			
Nominal Pipe Size		Diam. at Base of Hub	O.D of Raised Face	Thick- ness	Welding Neck	Slip-on	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on And Threaded	Lap Joint	Diam of Hub at Bever
	D	Х	G	1	B1	B2	В3	В	T1	T2	T3	Α
1/2	95	38.1	35.1	14.2		22.4	22.9	23.6	52.3	22.4	22.4	21.3
3/4	117	47.8	42.9	15.7	1 1	27.7	28.2	29.0	57.2	25.4	25.4	26.7
1	124	53.8	50.8	17.5	1 1	34.5	35.1	35.8	62.0	26.9	26.9	33.5
1 1/4	133	63.5	63.5	20.6	1 1	43.2	43.7	44.5	66.5	28.4	28.4	42.2
11/2	155	69.9	73.2	22.4] _ [49.5	50.0	50.5	69.9	31.8	31.8	48.3
2	165	84.1	91.9	25.4] s	62.0	62.5	63.5	73.2	36.6	36.6	60.5
21/2	191	100.1	104.6	28.4	See Note(1) To be specialized by purchaser	74.7	75.4	76.2	79.2	41.1	41.1	73.2
3	210	117.3	127.0	31.8	7 à 1	90.7	91.4	92.2	82.6	46.0	46.0	88.9
31/2	229	133.4	139.7	35.1	Note(1) zed by p	103.4	104.1	104.9	85.9	49.3	49.3	101.6
4	254	146.1	157.2	35.1	7 8 5 1	116.1	116.8	117.6	88.9	50.8	50.8	114.3
5	279	177.8	185.7	38.1	7 z 🖺	143.8	144.5	144.5	101.6	53.8	53.8	141.2
6	318	206.2	215.9	41.1	See	170.7	171.5	171.5	103.1	57.2	57.2	168.4
8	381	260.4	269.7	47.8	- a	221.5	222.3	222.3	117.3	68.3	68.3	219.2
10	445	320.5	323.9	53.8	7 🖺	276.4	277.4	276.4	124.0	73.2	101.6	273.1
12	521	374.7	381.0	57.2	1 5	327.2	328.2	328.7	136.7	79.2	108.0	323.9
14	584	425.5	412.8	60.5	1 - 1	359.2	360.2	360.4	149.4	84.1	117.3	355.6
16	648	482.6	469.9	63.5	1 1	410.5	411.2	411.2	152.4	93.7	127.0	406.4
18	711	533.4	533.4	66.5	1 1	461.8	462.3	462.0	165.1	98.6	136.7	457.2
20	775	587.5	584.2	69.9	1 1	513.1	514.4	512.8	168.1	101.6	146.1	508.0
24	914	701.5	692.2	76.2	1	616.0	616.0	614.4	174.8	114.3	158.8	609.6



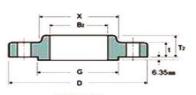


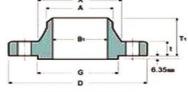
CLASS 600 CARBON STEEL AND STAINLESS STEEL

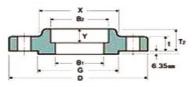












SLIP-ON

WELDING NECK

SOCKET WELDING

ANSI B16.5 FORGED FLANGES

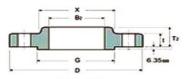
	Outside Diam.	Diam. at Base of Hub	O.D of Raised Face	Thick- ness	BORE				LENG	TH THRU	HUB			
Nominal Pipe Size					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint	Diam of Hub at Bever	Radius of Fillet	Thread Length
	D	Х	G	- 1	B1	B2	В3	В	T1	T2	T3	Α	R	0
1/2	95	38.1	35.1	14.2		22.4	22.9	23.6	52.3	22.4	22.4	21.3	3.0	15.7
3/4	117	47.8	42.9	15.7	1 1	27.7	28.2	29.0	57.2	25.4	25.4	26.7	3.0	15.7
1	124	53.8	50.8	17.5	1 1	34.5	35.1	35.8	62.0	26.9	26.9	33.5	3.0	17.5
1 1/4	133	63.5	63.5	20.6	1 1	43.2	43.7	44.5	66.5	28.4	28.4	42.2	4.8	20.6
11/2	155	69.9	73.2	22.4	1	49.5	50.0	50.5	69.9	31.8	31.8	48.3	6.4	22.4
2	165	84.1	91.9	25.4	Se .	62.0	62.5	63.5	73.2	36.6	36.6	60.5	7.9	28.4
21/2	191	100.1	104.6	28.4	F .	74.7	75.4	76.2	79.2	41.1	41.1	73.2	7.9	31.8
3	210	117.3	127.0	31.8	See Note(1) be specialized by purchaser	90.7	91.4	92.2	82.6	46.0	46.0	88.9	9.7	35.1
31/2	229	133.4	139.7	35.1	£ 2	103.4	104.1	104.9	85.9	49.3	49.3	101.6	9.7	39.6
4	273	152.4	157.2	38.1	Note(1) zed by p	116.1	116.8	117.6	101.6	53.8	53.8	114.3	11.2	41.1
5	330	189.0	185.7	44.5	Z e	143.8	144.5	144.5	114.3	60.5	60.5	141.2	11.2	47.8
6	356	222.3	215.9	47.8	See	170.7	171.5	171.5	117.3	66.5	66.5	168.4	12.7	50.8
8	419	273.1	269.7	55.6	S S	221.5	222.3	222.3	133.4	76.2	76.2	219.2	12.7	57.2
10	508	342.9	323.9	63.5	le s	276.4	277.4	276.4	152.4	85.9	111.3	273.1	12.7	65.0
12	559	400.1	381.0	66.5	٩	327.2	328.2	328.7	155.4	91.9	117.3	323.9	12.7	69.9
14	603	431.8	412.8	69.5	မ	359.2	360.2	360.4	165.1	93.7	127.0	355.6	12.7	73.2
16	686	495.3	469.9	76.2		410.5	411.2	411.2	177.8	106.4	139.7	406.4	12.7	77.7
18	743	546.1	533.4	82.6		461.8	462.3	462.0	184.2	117.3	152.4	457.2	12.7	79.2
20	813	609.6	584.2	88.9		513.1	514.4	512.8	190.5	127.0	165.1	508.0	12.7	82.6
24	940	717.6	692.2	101.6	1	616.0	616.0	614.4	203.2	139.7	184.2	609.6	12.7	91.9





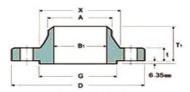
CLASS 900 CARBON STEEL AND STAINLESS STEEL





SLIP-ON





WELDING NECK

ANSI B16.5 FORGED FLANGES

						ВО	RE		LENGTH THRU HUB			100
Nominal Pipe Size	Outside Diam.	Diam. at Base of Hub	O.D of Raised Face	Thick- ness	Welding Neck	Slip-on	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on And Threaded	Lap Joint	Diam of Hub at Bever
	D	х	G	1	B1	B2	В3	В	T1	T2	Т3	Α
1/2	121	38.1	35.1	22.4		22.4	22.9	23.6	60.5	31.8	31.8	21.3
3/4	130	47.8	42.9	25.4	1	27.7	28.2	29.0	69.9	35.1	35.1	26.7
1	149	53.8	50.8	28.4	1	34.5	35.1	35.8	73.2	41.1	41.1	33.5
1%	159	63.5	63.5	28.4	1	43.2	43.7	44.5	73.2	41.1	41.1	42.2
1 1/2	178	69.9	73.2	31.8) purchaser	49.5	50.0	50.5	82.6	44.5	44.5	48.3
2	216	104.6	91.9	38.1	2 2	62.0	62.5	63.5	101.6	57.2	57.2	60.5
21/2	244	124.0	104.6	41.1] 🖁	74.7	75.4	76.2	104.6	63.5	63.5	73.2
3	241	127.0	127.0	38.1		90.7	91.4	92.2	101.6	53.8	53.8	88.9
4	292	158.8	157.2	44.5	Note(1) zed by p	116.1	116.8	104.9	114.3	69.9	69.9	114.3
5	349	190.5	185.7	50.8	See Note(1 To be specialized by	143.8	144.5	117.6	127.0	79.2	79.2	141.2
6	381	235.0	215.9	55.6	ciali Se	170.7	171.5	171.5	139.7	85.9	85.9	168.4
8	470	298.5	269.7	63.5] v s	221.5	222.3	222.3	162.1	101.6	114.3	219.2
10	546	368.3	323.9	69.9	25	276.4	277.4	276.4	184.2	108.0	127.0	273.1
12	610	419.1	381.0	79.2] =	327.2	328.2	328.7	200.2	117.3	142.7	323.9
14	641	450.9	412.8	85.9] =	359.2	360.2	360.4	212.9	130.3	155.4	355.6
16	705	508.0	469.9	88.9		410.5	411.2	411.2	215.9	133.4	165.1	406.4
18	787	565.2	533.4	101.6]	461.8	462.3	462.0	228.6	152.4	190.5	457.2
20	857	622.3	584.2	108.0]	513.1	514.4	512.8	247.7	158.8	209.6	508.0
24	1041	749.3	692.2	139.7	1	616.0	616.0	614.4	292.1	203.2	266.7	609.6



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