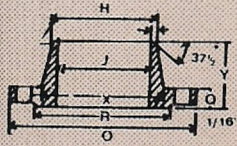
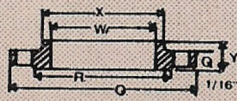


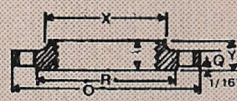
WELDING NECK



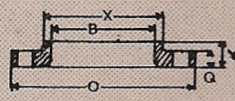
SLIP-ON



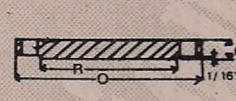
THREADED



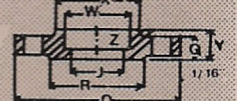
LAP JOINT



BLIND



SOCKET TYPE



## ANSI B 16.5 600 CLASS FLANGES

Nominal Pipe Size	Outside Diam. Of Flange O	Thick of Flange Q	Diam. of Raised Face R	DRILLING			Diam. of Hub at Base X	Diam. of Hub at Bevel H	LENGTH THRU HUB			Min. Thread Length T	DIAM. OF BORE			Radius of fillet r	Depth of Socket Z	
				Diam. of Bolt Circle	Number Of Bolts	Diam. of Bolt Holes			Slip-on, Threaded, Socket Y	Lap Joint Y	Welding Neck Y		Slip-on Socket W	Lap Joint B	Welding Neck, Socket J			
1/2	3 3/4	9/16	1 3/8	2 3/8	4	5/8	1 1/2	.84	7/8	7/8	2 1/16	5/8	.88	.90	.55	1/8	3/8	
3/4	4 3/8	5/8	1 11/16	3 1/4	4	3/4	1 7/8	1.05	1	1	2 1/4	5/8	1.09	1.11	.74	1/8	7/16	
1	4 7/8	11/16	2	3 1/2	4	3/4	2 1/8	1.32	1 1/16	1 1/16	2 7/16	11/16	1.36	1.38	.96	1/8	1/2	
1 1/4	5 1/4	13/16	2 1/2	3 7/8	4	3/4	2 1/2	1.66	1 1/8	1 1/8	2 5/8	13/16	1.70	1.72	1.28	3/16	9/16	
1 1/2	6 1/8	7/8	2 7/8	4 1/2	4	7/8	2 3/4	1.90	1 1/4	1 1/4	2 3/4	7/8	1.95	1.97	1.50	1/4	5/8	
2	6 1/2	1	3 5/8	5	8	3/4	3 3/16	2.38	1 7/16	1 7/16	2 7/8	1 1/8	2.44	2.46	1.94	5/16	11/16	
2 1/2	7 1/2	1 1/8	4 1/8	5 7/8	8	7/8	3 15/16	2.88	1 5/8	1 5/8	3 1/8	1 1/4	2.94	2.97	2.32	5/16	3/4	
3	8 1/4	1 1/4	5	6 3/8	8	7/8	4 5/8	3.50	1 13/16	1 13/16	3 1/4	1 3/8	3.57	3.60	2.90	3/8	13/16	
3 1/2	9	1 3/8	5 1/2	7 1/4	8	1	5 1/4	4.00	1 15/16	1 15/16	3 3/8	1 9/16	4.07	4.10	3.36	3/8	7/8	
4	10 3/4	1 1/2	6 3/16	8 1/2	8	1	6	4.50	2 1/8	2 1/8	4	1 5/8	4.57	4.60	3.83	7/16	7/8	
5	13	1 3/4	7 7/16	10 1/2	8	1 1/8	7 7/16	5.56	2 3/8	2 3/8	4 1/2	1 7/8	5.66	5.69	4.81	7/16	1	
6	14	1 7/8	8 1/2	11 1/2	12	1 1/8	8 3/4	6.63	2 5/8	2 5/8	4 5/8	2	6.72	6.75	5.76	1/2	1	
8	16 1/2	2 3/16	10 3/8	13 3/4	12	1 1/4	10 3/4	8.63	3	3	5 1/4	2 1/4	8.72	8.75	7.63	1/2	1 1/8	
10	20	2 1/2	12 3/4	17	16	1 1/2	13 1/2	10.75	3 3/8	4 3/8	6	2 9/16	10.88	10.92	8.75	1/2	1 1/4	
12	22	2 5/8	15	19 1/4	20	1 3/8	15 3/4	12.75	3 5/8	4 5/8	6 1/8	2 3/4	12.88	12.92	11.75	1/2	1 1/4	
14	23 3/4	2 3/4	16 1/4	20 3/4	20	1 1/2	17	14.00	3 11/16	5	6 1/2	2 7/8	14.14	14.18	To be Specified by Purchaser	1/2	1 3/8	
16	27	3	18 1/2	23 3/4	20	1 5/8	19 1/2	16.00	4 3/16	5 1/2	7	3 1/16	16.16	16.19		1/2	1 1/2	
18	29 1/4	3 1/4	21	25 3/4	20	1 3/4	21 1/2	18.00	4 5/8	6	7 1/4	3 1/8	18.18	18.20		1/2	1 5/8	
20	32	3 1/2	23	28 1/2	24	1 3/4	24	20.00	5	6 1/2	7 1/2	3 1/4	20.20	20.25	To be Specified by Purchaser	1/2	1 5/8	
22	34 1/4	3 3/4	25 1/4	30 5/8	24	1 7/8	26 1/4	22.00	5 1/4	---	7 3/4	---	22.22	---		---	---	1 3/4
24	37	4	27 1/4	33	24	2	28 1/4	24.00	5 1/2	7 1/4	8	3 5/8	24.25	24.25		1/2	1 7/8	

## ANSI B 16.5 1500 CLASS FLANGES

Nominal Pipe Size	Outside Diam. Of Flange O	Thick of Flange Q	Diam. of Raised Face R	DRILLING			Diam. of Hub at Base X	Diam. of Hub at Bevel H	LENGTH THRU HUB			Min. Thread Length T	DIAM. OF BORE			Radius of fillet r	Depth of Socket Z	
				Diam. of Bolt Circle	Number Of Bolts	Diam. of Bolt Holes			Slip-on, Threaded, Socket Y	Lap Joint Y	Welding Neck Y		Slip-on Socket W	Lap Joint B	Welding Neck, Socket J			
1/2	4 3/4	7/8	4 1/4	3 1/4	4	7/8	1 1/2	.84	1 1/4	1 1/4	2 3/8	7/8	7/8	29/32	To be Specified by Purchaser	1/8	3/8	
3/4	5 1/8	1	4 1/2	3 1/2	4	7/8	1 3/4	1.05	1 3/8	1 3/8	2 3/4	1	1 3/32	1 1/8		1/8	7/16	
1	5 7/8	1 1/8	5	4	4	1	2 1/16	1.32	1 5/8	1 5/8	2 7/8	1 1/8	1 11/32	1 3/8		1/8	1/2	
1 1/4	6 1/4	1 1/8	5	4 3/8	4	1	2 1/2	1.66	1 5/8	1 5/8	2 7/8	1 3/16	1 11/16	1 3/4	To be Specified by Purchaser	3/16	9/16	
1 1/2	7	1 1/4	5 1/2	4 7/8	4	1 1/8	2 3/4	1.90	1 3/4	1 3/4	3 1/4	1 1/4	1 15/16	2		1/4	5/8	
2	8 1/2	1 1/2	5 3/4	6 1/2	8	1 1/8	4 1/8	2.38	2 1/4	2 1/4	4	1 1/2	2 7/16	2 7/16		5/16	11/16	
2 1/2	9 5/8	1 5/8	6 1/4	7 1/2	8	1 1/8	4 7/8	2.88	2 1/2	2 1/2	4 1/8	1 7/8	2 15/16	3	To be Specified by Purchaser	5/16	3/4	
3	10 1/2	1 7/8	7	8	8	1 1/4	5 1/4	3.50	2 7/8	2 7/8	4 5/8	2	3 19/32	---		3/8	---	
3 1/2	---	---	---	---	---	---	---	---	---	---	---	---	---	---		3/8	---	
4	12 1/4	2 1/8	7 3/4	9 1/2	8	1 3/8	6 3/8	4.50	3 9/16	3 9/16	4 7/8	2 1/4	4 19/32	---	To be Specified by Purchaser	7/16	---	
5	14 3/4	2 3/8	9 3/4	11 1/2	8	1 11/16	7 3/4	5.56	4 1/8	4 1/8	6 1/8	2 1/2	5 11/16	---		7/16	---	
6	15 1/2	3 1/4	10 1/4	12 1/2	12	1 1/2	9	6.63	4 11/16	4 11/16	6 3/4	2 3/4	6 3/4	---		1/2	---	
8	19	3 7/8	11 1/2	15 1/2	12	1 3/4	11 1/2	8.63	5 5/8	5 5/8	8 3/8	3	8 3/4	---	To be Specified by Purchaser	1/2	---	
10	23	4 1/4	13 1/4	19	12	2	14 1/2	10.75	6 1/4	7	10	3 5/16	10 15/16	---		1/2	---	
12	26 1/2	4 7/8	14 1/4	22 1/2	16	2 1/8	17 3/4	12.75	7 1/8	8 5/8	11 1/8	3 3/8	12 15/16	---		1/2	---	
14	29 1/2	5 1/4	16	25	16	2 3/8	19 1/2	14.00	---	9 1/2	11 3/4	---	14 9/16	---	To be Specified by Purchaser	1/2	---	
16	32 1/2	5 3/4	17 1/2	27 3/4	16	2 5/8	21 3/4	16.00	---	10 1/4	12 1/4	---	16 1/16	---		1/2	---	
18	36	6 3/8	19 1/2	30 1/2	16	2 7/8	23 1/2	18.00	---	10 7/8	12 7/8	---	18 3/16	---		1/2	---	
20	38 3/4	7	21 1/2	32 3/4	16	3 1/8	25 1/4	20.00	---	11 1/2	14	---	20 1/4	---	To be Specified by Purchaser	1/2	---	
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---		---	---	---
24	46	8	24 1/2	39	16	3 5/8	30	24.00	---	13	16	---	24 1/4	---		1/2	---	

All Dimensions Are In Inches