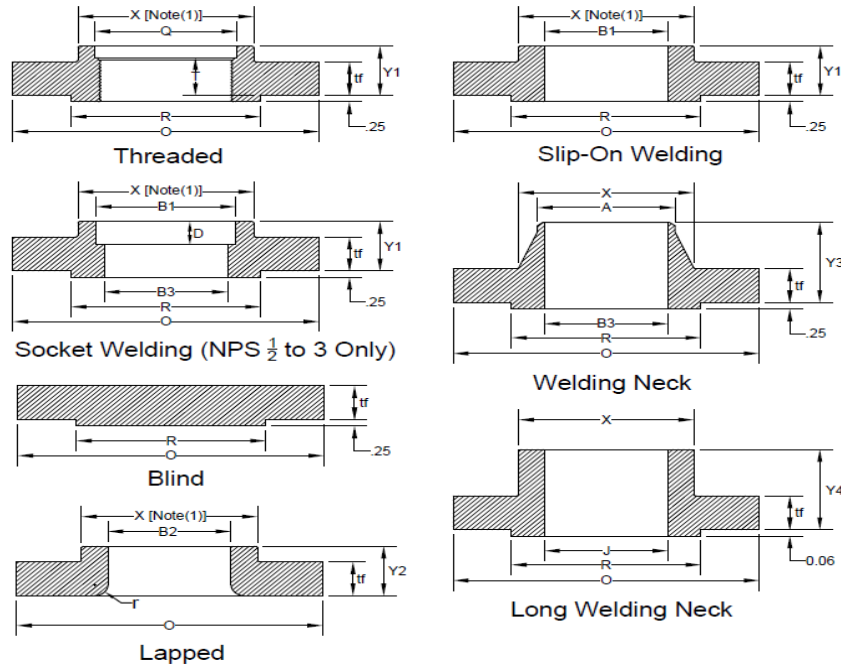




CLASS 400 FLANGE

ASME B16.5-2017



Nominal Pipe Size/ Bore for LWN	Length Through Hub										Bore				Bolt				
	Outside Diameter	Min. Thickness	Diameter of Raised Face	Diameter of Hub	Diameter Beginning of Chamfer of Welding Neck	Threaded Slip-on Socket Welding	Lapped	Welding Neck	Long Welding Neck	Minimum Thread Length Threaded	Minimum Slip-On Socket Welding	Minimum Lapped	Welding Neck / Socket Welding	Corner Bore Radius of Lapped Flange and Pipe	Depth of Socket	Minimum Counter-bore Threaded Flange	Bolt Circle Dia	Number of Holes	Diameter of Holes
J	O	t _f	R	X	A	Y1	Y2	Y3	Y4	T	B1	B2	B3	r	D	Q			
1/2	3.75	0.56	1.38	1.50	0.84	0.88	0.88	2.06	9.00	0.62	0.88	0.90	Note-3	0.12	0.38	0.93	2.62	4	0.63
3/4	4.62	0.62	1.69	1.88	1.05	1.00	1.00	2.25	9.00	0.62	1.09	1.11	Note-3	0.12	0.44	1.14	3.25	4	0.75
1	4.88	0.69	2.00	2.12	1.32	1.06	1.06	2.44	9.00	0.69	1.36	1.38	Note-3	0.12	0.50	1.41	3.50	4	0.75
1 1/4	5.25	0.81	2.50	2.50	1.66	1.12	1.12	2.62	9.00	0.81	1.70	1.72	Note-3	0.19	0.56	1.75	3.88	4	0.75
1 1/2	6.12	0.88	2.88	2.75	1.90	1.25	1.25	2.75	9.00	0.88	1.95	1.97	Note-3	0.25	0.62	1.99	4.50	4	0.88
2	6.50	1.00	3.62	3.31	2.38	1.44	1.44	2.88	9.00	1.12	2.44	2.46	Note-3	0.31	0.69	2.50	5.00	8	0.75
2 1/2	7.50	1.12	4.12	3.94	2.88	1.62	1.62	3.12	9.00	1.25	2.94	2.97	Note-3	0.31	0.75	3.00	5.88	8	0.88
3	8.25	1.25	5.00	4.62	3.50	1.81	1.81	3.25	9.00	1.38	3.57	3.60	Note-3	0.38	0.81	3.63	6.62	8	0.88
3 1/2	9.00	1.38	5.50	5.25	4.00	1.94	1.94	3.38	9.00	1.56	4.07	4.10	Note-3	0.38	-	4.13	7.25	8	1.00
4	10.00	1.38	6.19	5.75	4.50	2.00	2.00	3.50	Note-3	1.44	4.57	4.60	Note-3	0.44	-	4.63	7.88	8	1.00
5	11.00	1.50	7.31	7.00	5.56	2.12	2.12	4.00	12.00	1.69	5.66	5.69	Note-3	0.44	-	5.69	9.25	8	1.00
6	12.50	1.62	8.50	8.12	6.63	2.25	2.25	4.06	12.00	1.81	6.72	6.75	Note-3	0.50	-	6.75	10.62	12	1.00
8	15.00	1.88	10.62	10.25	8.63	2.69	2.69	4.62	12.00	2.00	8.72	8.75	Note-3	0.50	-	8.75	13.00	12	1.13
10	17.50	2.12	12.75	12.62	10.75	2.88	4.00	4.88	12.00	2.19	10.88	10.92	Note-3	0.50	-	10.88	15.25	16	1.25
12	20.50	2.25	15.00	14.75	12.75	3.12	4.25	5.38	12.00	2.38	12.88	12.92	Note-3	0.50	-	12.94	17.75	16	1.38
14	23.00	2.38	16.25	16.75	14.00	3.31	4.62	5.88	12.00	2.50	14.14	14.18	Note-3	0.50	-	14.19	20.25	20	1.38
16	25.50	2.50	18.50	19.00	16.00	3.69	5.00	6.00	12.00	2.69	16.16	16.19	Note-3	0.50	-	16.19	22.50	20	1.50
18	28.00	2.62	21.00	21.00	18.00	3.88	5.38	6.50	12.00	2.75	18.18	18.20	Note-3	0.50	-	18.19	24.75	24	1.50
20	30.50	2.75	23.00	23.12	20.00	4.00	5.75	6.62	12.00	2.88	20.20	20.25	Note-3	0.50	-	20.19	27.00	24	1.63
22	33.00	2.88	25.25	25.25	22.00	4.25	6.00	6.75	12.00	-	22.22	22.25	Note-3	0.50	-	-	29.25	24	1.75
24	36.00	3.00	27.25	27.62	24.00	4.50	6.25	6.88	12.00	3.25	24.25	24.25	Note-3	0.50	-	24.19	32.00	24	1.88

- Notes:
 (1) This dimension is for the large end of the hub, which may be straight or tapered. Taper shall not exceed 7 deg on threaded, slip-on, socket-welding, and lapped flanges.
 (2) When these flanges are required with flat face, the flat face may be either the full t_f dimension thickness plus 0.06 in. or the t_f dimension thickness without the raised face height.
 (3) To be specified by the Customer; Y4 - the length can be 9" (B16.5) or 12" (industry), shall be specified by the customer.