

Size		Bolt Size	ANSI Class 300 Wafer Body					
			Long Bolt			Short Stud		
			QTY	Length		QTY	Length	
				Machine	Stud			Stud
Inch	mm		Inch	Inch		Inch		
2	50	5/8" -11 UNC	8	4 3/4	5 3/4	-		-
2.5	65	3/4" -10 UNC	8	5 1/4	6 1/2	-		-
3	80	3/4" -10 UNC	8	5 1/2	6 3/4	-		-
4	100	3/4" -10 UNC	8	6 1/4	7 1/4	-		-
5	125	3/4" -10 UNC	8	6 3/4	8	-		-
6	150	3/4" -10 UNC	12	7	8 1/4	-		-
8	200	7/8" -9 UNC	12	8	9 1/4	-		-
10	250	1" -8 UNC	12	9	10 1/2	8		4 1/2
12	300	1 - 1/8" -8 UN	12	9 3/4	11 1/4	8		4 1/2
14	350	1 - 1/8" -8 UN	16	11	12 1/2	8		4 3/4
16	400	1 - 1/4" -8 UN	16	12	13 3/4	8		5
18	450	1 - 1/4" -8 UN	20	13	14 3/4	8		5
20	500	1 - 1/4" -8 UN	20	13 3/4	15 1/2	8		5 1/4
22	550	1 - 1/2" -8 UN	20	14 1/4	17 1/2	8		5 3/4
24	600	1 - 1/2" -8 UN	20	14 1/2	17 1/2	8		6
API Class 300 Wafer Body								
26	650	1 - 1/4" -8 UN	24	18 1/2	20 1/4	16		6 1/2
28	700	1 - 1/4" -8 UN	28	18 1/2	20 1/4	16		6 3/4
30	750	1 - 3/8" -8 UN	28	19 1/2	21 1/4	16		7
36	900	1 - 5/8" -8UN	24	19 1/2	21 1/2	16		7 3/4
42	1050	1 - 3/4" -8UN	28	23 1/4	25 1/2	16		8 1/2
48	1200	1 - 7/8" -8UN	32	26 1/2	29	16		9 1/2
MSS Class 300 Wafer Body								
26	650	1 - 5/8" -8 UN	24	18 1/4	20 1/2	8		7
28	700	1 - 5/8" -8 UN	24	18 1/2	21	8		7 1/4
30	750	1 - 3/4" -8 UN	24	19 3/4	22 1/4	8		7 1/2
36	900	2" - 8UN	28	20 1/2	23 1/4	8		8 3/4
42	1050	1 - 5/8" -8UN	28	23	25	8		8 3/4
48	1200	1 - 7/8" -8UN	28	26 1/2	28 3/4	8		9 1/4

NOTE: (1.) ABZ DOES NOT RECOMMEND THE USE OF MACHINE BOLTS IN SHORT THREAD HOLES AND DOES NOT SHOW THEM AS AN OPTION. (2.) THESE ARE RECOMMENDED BOLT AND STUD LENGTHS. IT IS UP TO EACH CUSTOMER TO APPLY LENGTHS PER APPLICATION. (3.) THE LENGTHS ARE BASED ON THE FOLLOWING FLANGES: (A.) ANSI 16.5 FOR 2" THROUGH 12". (B.) ANSI 16.47 SERIES A FOR STANDARD MSS VALVES 26" AND UP. (C.) ANSI 16.47 SERIES B FOR API VALVES 26" AND UP. (4.) ALL FLANGE BOLTING IS TAPPED TO ASME B-1.1 COARSE THREAD CLASS 2B FOR BOLTS 1" AND SMALLER. BOLTS 1.125" AND LARGER ARE TAPPED TO 8 THREAD SERIES CLASS 2B.