

Size		Bolt Size	ANSI Class 150 Wafer Body					
			Long Bolt			Short Stud		
			QTY	Length		QTY	Length	
				Machine	Stud			Stud
Inch	mm		Inch	Inch			Inch	
2	50	5/8"-11 UNC	4	4 1/2	5 1/2	-	-	-
2.5	65	5/8"-11 UNC	4	4 1/2	5 3/4	-	-	-
3	80	5/8"-11 UNC	4	5	6	-	-	-
4	100	5/8"-11 UNC	8	5 1/4	6 1/4	-	-	-
5	125	3/4"-10 UNC	8	5 1/2	6 3/4	-	-	-
6	150	3/4"-10 UNC	8	5 1/2	6 3/4	-	-	-
8	200	3/4"-10 UNC	8	6	7 1/4	-	-	-
10	250	7/8"-9 UNC	12	6 1/2	7 3/4	-	-	-
12	300	7/8"-9 UNC	12	7 1/4	8 1/2	-	-	-
14	350	1"-8 UNC	12	8 1/4	10	-	-	-
16	400	1"-8 UNC	16	8 3/4	10 1/4	-	-	-
18	450	1-1/8" -8 UN	16	9 1/2	11 1/4	-	-	-
20	500	1-1/8" -8 UN	16	10 1/4	12	8		4 1/2
22	550	1-1/4" -8 UN	16	11 3/4	13 1/2	8		5
24	600	1-1/4" -8 UN	16	12	13 3/4	8		5
API Class 150 Wafer Body								
26	650	3/4" -10 UNC	28	11 1/2	12 3/4	16		3 1/2
28	700	3/4" -10 UNC	32	11 3/4	13	16		3 3/4
30	750	3/4" -10 UNC	36	12 3/4	14	16		4
32	800	3/4" -10 UNC	40	13	14	16		4
34	850	7/8" -9 UNC	32	13 3/4	15	16		4 1/2
36	900	7/8" -9 UNC	36	14	15 1/4	16		4 3/4
38	950	1" -8 UNC	32	14 1/4	15 3/4	16		5
40	1000	1" -8 UNC	36	15	16 1/2	16		5
42	1050	1" -8 UNC	40	16	17 1/2	16		5
44	1100	1" -8 UNC	44	16 1/4	17 3/4	16		5 1/2
46	1150	1 - 1/8" -8 UN	32	16 3/4	18 1/2	16		5 1/2
48	1200	1 - 1/8" -8 UN	36	17	19	16		5 3/4
MSS Class 150 Wafer Body								
26	650	1 - 1/4" -8 UN	20	14	15 3/4	8		5 1/2
28	700	1 - 1/4" -8 UN	24	15	16	8		5 1/2
30	750	1 - 1/4" -8 UN	24	15 3/4	17 1/4	8		6 1/4
32	800	1 - 1/2" -8 UN	24	16 1/4	18 1/4	8		6 1/2
34	850	1 - 1/2" -8 UN	28	16 3/4	18 3/4	8		6 1/2
36	900	1 - 1/2" -8 UN	28	17 1/2	19 1/2	8		7
38	950	1 - 1/2" -8 UN	28	17 1/2	19 1/2	8		7
40	1000	1 - 1/2" -8 UN	32	18	20	8		7
42	1050	1 - 1/2" -8 UN	32	19 1/2	21 1/4	8		7 1/4
44	1100	1 - 1/2" -8 UN	36	21 1/4	22	8		7 1/4
46	1150	1 - 1/2" -8 UN	36	20 3/4	23	8		7 1/2
48	1200	1 - 1/2" -8 UN	40	21 1/4	23 1/4	8		7 1/2

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.