

# ANSI Bolting Chart 1/2" – 4"

Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size									
			1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
150 Pound	Number		4	4	4	4	4	4	4	4	8	8
	Diameter		1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8
	Length of Stud Bolts	1 1/16 RF	2 1/2	2 1/2	2 3/4	2 3/4	3	3 1/4	3 1/2	3 3/4	3 3/4	3 3/4
		RTJ	-	-	3 1/4	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/4	4 1/4
	Ring Size	R	-	-	15	17	19	22	25	29	33	36
300 Pound	Number		4	4	4	4	4	8	8	8	8	8
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	3/4	3/4
	Length of Stud Bolts	1/16 RF	2 3/4	3	3 1/4	3 1/4	3 3/4	3 1/2	4	4 1/4	4 1/2	4 1/2
		RTJ	3 1/4	3 1/2	3 3/4	3 3/4	4 1/4	4 1/4	4 3/4	5	5 1/4	5 1/4
	Ring Size	R	11	13	16	18	20	23	26	31	34	37
		RX	-	-	-	-	20	23	26	31	34	37
400 Pound	Number		4	4	4	4	4	8	8	8	8	8
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8
	Length of Stud Bolts	1/4 RF	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 1/2
		RTJ	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	5	5 1/4	5 3/4	5 3/4
	Ring Size	R	11	13	16	18	20	23	26	31	34	37
		RX	-	-	-	-	20	23	26	31	34	37
600 Pound	Number		4	4	4	4	4	8	8	8	8	8
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8
	Length of Stud Bolts	1/4 RF	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/4	4 3/4	5	5 1/2	5 3/4
		RTJ	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	5	5 1/4	5 3/4	6
	Ring Size	R	11	13	16	18	20	23	26	31	34	37
		RX	-	-	-	-	20	23	26	31	34	37
900 Pound	Number		4	4	4	4	4	8	8	8	-	8
	Diameter		3/4	3/4	7/8	7/8	1	7/8	1	7/8	-	1 1/8
	Length of Stud Bolts	1/4 RF	4 1/4	4 1/2	5	5	5 1/2	5 3/4	6 1/4	5 3/4	-	6 3/4
		RTJ	4 1/4	4 1/2	5	5	5 1/2	6	6 1/2	6	-	7
	Ring Size	R	12	14	16	18	20	24	27	31	-	37
		RX	-	-	-	-	20	24	27	31	-	37

<b>1500 Pound</b>	<b>Number</b>		4	4	4	4	4	8	8	8	-	8
	<b>Diameter</b>		3/4	3/4	7/8	-	1	7/8	1	1 1/8	-	1 1/4
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	4 1/4	4 1/2	5	5	5 1/2	5 3/4	6 1/4	7	-	7 3/4
		<b>RTJ</b>	4 1/4	4 1/2	5	5	5 1/2	6	6 1/2	7 1/4	-	8
	<b>Ring Size</b>	<b>R</b>	12	14	16	18	20	24	27	35	-	39
<b>RX</b>		-	-	-	-	20	24	27	35	-	39	
<b>2500 Pound</b>	<b>Number</b>		4	4	4	4	4	8	8	8	-	8
	<b>Diameter</b>		3/4	3/4	7/8	1	1 1/8	1	1 1/8	1 1/4	-	1 1/2
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	5	5	5 1/2	6	6 3/4	7	7 3/4	8 3/4	-	10
		<b>RTJ</b>	5	5	5 1/2	6 1/4	7	7 1/4	8	9	-	10 1/2
	<b>Ring Size</b>	<b>R</b>	13	16	18	21	23	26	28	32	-	38
<b>RX</b>		-	-	-	21	23	26	28	32	-	38	

## ANSI Bolting Chart 5" – 24"

<b>Pressure Rating</b>	<b>Bolting</b>	<b>Flange Facing</b>	<b>Nominal Pipe Size</b>									
			<b>5</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>20</b>	<b>24</b>
<b>150 Pound</b>	<b>Number</b>		8	8	8	12	12	12	16	16	20	20
	<b>Diameter</b>		3/4	3/4'	3/4	7/8'	7/8	1	1	1 1/8	1 1/8	1 1/4
	<b>Length of Stud Bolts</b>	<b>1/16 RF</b>	4	4	4 1/4	4 3/4	4 3/4	5 1/4	5 1/2	6	6 1/4	7
		<b>RTJ</b>	4 1/2	4 1/2	4 1/2	5 1/4	5 1/4	5 3/4	6	6 1/2	6 3/4	7 1/2
	<b>Ring Size</b>	<b>R</b>	40	43	48	52	56	59	64	68	72	76
<b>300 Pound</b>	<b>Number</b>		8	12	12	16	16	20	20	24	24	24
	<b>Diameter</b>		3/4	3/4	7/8	1	1 1/8	1 1/8	1 1/4	1 1/4	1 1/4	1 1/2
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	4 3/4	5	5 1/2	6 1/4	6 3/4	7	7 1/2	7 3/4	8 1/4	9 1/4
		<b>RTJ</b>	5 1/2	5 3/4	6 1/4	7	7 1/2	7 3/4	8 1/4	8 1/2	9	10 1/4
	<b>Ring Size</b>	<b>R</b>	41	45	49	53	57	61	65	69	73	77
<b>RX</b>		41	45	49	53	57	61	65	69	73	77	
<b>400 Pound</b>	<b>Number</b>		8	12	12	16	16	20	20	24	24	24
	<b>Diameter</b>		7/8	7/8	1	1 1/8	1 1/4	1 1/4	1 3/8	1 3/8	1 1/2	1 3/4
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	5 3/4	6	6 3/4	7 1/2	8	8 1/4	8 3/4	9	9 3/4	10 3/4
		<b>RTJ</b>	6	6 1/4	7	7 3/4	8 1/4	8 1/2	9	9 1/4	10	11 1/4
	<b>Ring Size</b>	<b>R</b>	41	45	49	53	57	61	65	69	73	77
<b>RX</b>		41	45	49	53	57	61	65	69	73	77	

<b>600 Pound</b>	<b>Number</b>		8	12	12	16	20	20	20	20	24	24
	<b>Diameter</b>		1	1	1 1/8	1 1/4	1 1/4	1 3/8	1 1/2	1 5/8	1 5/8	1 7/8
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	6 1/2	6 3/4	7 3/4	8 1/2	8 3/4	9 1/4	10	10 3/4	11 1/2	13
		<b>RTJ</b>	6 3/4	7	8	8 3/4	9	9 1/2	10 1/4	11	11 3/4	13 1/2
	<b>Ring Size</b>	<b>R</b>	41	45	49	53	57	61	65	69	73	77
<b>RX</b>		41	45	49	53	57	61	65	69	73	77	
<b>900 Pound</b>	<b>Number</b>		8	12	12	16	20	20	20	20	20	20
	<b>Diameter</b>		1 1/4	1 1/8	1 3/8	1 3/8	1 3/8	1 1/2	1 5/8	1 7/8	2	2 1/2
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	7 1/2	7 3/4	8 3/4	9 1/4	10	10 3/4	11 1/4	13	13 3/4	17 1/4
		<b>RTJ</b>	7 3/4	7 3/4	9	9 1/2	10 1/4	11 1/4	11 3/4	13 1/2	14 1/4	18
	<b>Ring Size</b>	<b>R</b>	41	45	49	53	57	62	66	70	74	78
<b>RX</b>		41	45	49	53	57	62	66	70	74	78	
<b>1500 Pound</b>	<b>Number</b>		8	12	12	12	12	16	16	16	16	16
	<b>Diameter</b>		1 1/2	1 3/8	1 5/8	1 7/8	2	2 1/4	2 1/2	2 3/4	3	3 1/2
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	9 3/4	10 1/4	11 1/2	13 1/2	15	16 1/4	17 3/4	19 1/2	21 1/4	24 1/4
		<b>RTJ</b>	10	10 1/2	12	13 3/4	15 1/2	17	18 3/4	20 1/2	22 1/2	25 1/2
	<b>Ring Size</b>	<b>R</b>	44	46	50	54	58	63	67	71	75	79
<b>RX</b>		44	46	50	54	58	63	67	71	75	79	
<b>2500 Pound</b>	<b>Number</b>		8	8	12	12	12	-	-	-	-	-
	<b>Diameter</b>		1 3/4	2	2	2 1/2	2 3/4	-	-	-	-	-
	<b>Length of Stud Bolts</b>	<b>1/4 RF</b>	11 3/4	13 3/4	15 1/4	19 1/4	21 1/4	-	-	-	-	-
		<b>RTJ</b>	12 1/2	14 1/4	15 3/4	20 1/4	22 1/4	-	-	-	-	-
	<b>Ring Size</b>	<b>R</b>	42	47	51	55	60	-	-	-	-	-
<b>RX</b>		42	47	51	55	60	-	-	-	-	-	