

ANSI Flanges Stud and Ring Chart

Primary Service Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size																			
			½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
150 Pound	Number		4	4	4	4	4	4	4	8	8	8	8	8	12	12	12	16	16	20	20	
	Diameter		½	½	½	½	½	5/8	5/8	5/8	5/8	5/8	¾	¾	¾	7/8	7/8	1	1	1 1/8	1 1/8	1 1/4
	Length of Stud Bolts	1/16 RF	2½	2½	2¾	2¾	3	3¼	3½	3¾	3¾	3¾	4	4	4¼	4¾	4¾	5¼	5½	6	6¼	7
	Ring Size	RTJ R	/	/	3¼	3¼	3½	3¾	4	4¼	4¼	4¼	4½	4½	4½	5¼	5¼	5¾	6	6½	6¾	7½

Primary Service Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size																			
			½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
300 Pound	Number		4	4	4	4	4	8	8	8	8	8	12	12	16	16	20	20	24	24	24	
	Diameter		½	5/8	5/8	5/8	¾	5/8	¾	¾	¾	¾	¾	7/8	1	1 1/8	1 1/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2
	Length of Stud Bolts	1/16 RF	2¾	3	3¼	3¼	3¾	3½	4	4¼	4½	4½	4¾	5	5½	6¼	6¾	7	7½	7¾	8¼	9¼
	Ring Size	RTJ R RX	3¼	3½	3¾	3¾	4¼	4¼	4¾	5	5¼	5¼	5½	5¾	6¼	7	7½	7¾	8¼	8½	9	10¼

Primary Service Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size																			
			½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
400 Pound	Number		4	4	4	4	4	8	8	8	8	8	12	12	16	16	20	20	24	24	24	
	Diameter		½	5/8	5/8	5/8	¾	5/8	¾	¾	7/8	7/8	7/8	7/8	1	1 1/8	1¼	1¼	1 3/8	1 3/8	1½	1¾
	Length of Stud Bolts	1/16 RF	3¼	3½	3¾	4	4¼	4¼	5	5½	5½	5¾	6	6¼	7½	8	8¼	8¼	9	9¼	10¾	
	Ring Size	RTJ R RX	3¼	3½	3¾	4	4¼	4½	5	5¼	5¼	5¾	6	6¼	7	7¾	8¼	8½	9	9¼	10	11¼

Primary Service Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size																			
			½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
600 Pound	Number		4	4	4	4	4	8	8	8	8	8	12	12	16	20	20	20	20	24	24	
	Diameter		½	5/8	5/8	5/8	¾	5/8	¾	¾	7/8	7/8	1	1	1 1/8	1¼	1¼	1 3/8	1½	1 5/8	1 5/8	1 7/8
	Length of Stud Bolts	1/16 RF	3¼	3½	3¾	4	4¼	4¼	5	5½	5¾	6½	6¾	7¾	8½	8¾	9¼	10	10¾	11½	13	
	Ring Size	RTJ R RX	3¼	3½	3¾	4	4¼	4½	5	5¼	5¼	6	6¾	7	8	8¾	9	9½	10¼	11	11¼	13½

Primary Service Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size																			
			½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
900 Pound	Number		4	4	4	4	4	8	8	8	/	8	8	12	12	16	20	20	20	20	20	
	Diameter		¾	¾	7/8	7/8	1	7/8	1	7/8	/	1 1/8	1¼	1 1/8	1 3/8	1 3/8	1 3/8	1½	1 5/8	1 7/8	2	2½
	Length of Stud Bolts	1/16 RF	4¼	4½	5	5	5½	5¾	6¼	5¾	/	6¾	7½	7¾	8¼	9¼	10	10¾	11¼	13	13¾	17¼
	Ring Size	RTJ R RX	4¼	4½	5	5	5½	6	6½	6	/	7	7¾	7¾	9	9½	10¼	11¼	11¾	13½	14¼	18

Primary Service Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size																			
			½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
1500 Pound	Number		4	4	4	4	4	8	8	8	/	8	8	8	12	12	12	16	16	16	16	
	Diameter		¾	¾	7/8	/	1	7/8	1	1 1/8	/	1¼	1½	1 3/8	1 5/8	1 7/8	2	2¼	2½	2¾	3	3½
	Length of Stud Bolts	1/16 RF	4¼	4½	5	5	5½	5¾	6¼	7	/	7¾	9¾	10¼	11½	13½	15	16¼	17¾	19½	21¼	24¼
	Ring Size	RTJ R RX	4¼	4½	5	5	5½	6	6½	7¼	/	8	10	10½	12	13¾	15½	17	18¾	20½	22½	25½

Primary Service Pressure Rating	Bolting	Flange Facing	Nominal Pipe Size																			
			½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
2500 Pound	Number		4	4	4	4	4	8	8	8	/	8	8	8	12	12	12	/	/	/	/	/
	Diameter		¾	¾	7/8	1	1 1/8	1	1 1/8	1¼	/	1½	1¾	2	2	2½	2¾	/	/	/	/	/
	Length of Stud Bolts	1/16 RF	5	5	5½	6	6¾	7	7¾	8¾	/	10	11¾	13¾	15¼	19¼	21¼	/	/	/	/	/
	Ring Size	RTJ R RX	5	5	5½	6¼	7	7¼	8	9	/	10½	12½	14¼	15¾	20¼	22¼	/	/	/	/	/