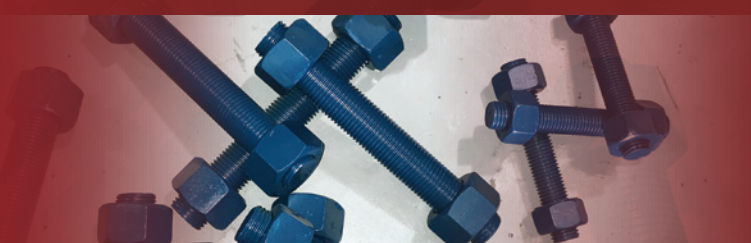




PIPING AND EQUIPMENT

A Subsidiary of Fairmont Supply



STUD BOLT CHART

With locations throughout the Gulf, P&E is a national leader in the distribution of pipe, valves, fittings and flanges (PVF), while specializing in valve automation, on-site solutions and capital projects.

For close to 50 years, P&E's highly experienced staff continues to provide best-in-class products and service support. This includes deep relationships with our supplier partners and high service levels all geared towards reducing overall costs while continually increasing value.

Piping and Equipment (P&E) is a subsidiary of Fairmont Supply.



BRANCHES

Piping and Equipment Locations

**Houston, TX - North
(Corporate Location)**
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Houston, TX 77086
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Houston, TX - South
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Houston, TX 77017
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Fax: 866-633-5380

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1015 McEntire Lane
Decatur, AL 35603
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Fax: 866-647-3750

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10103 Industriplex Ave.
Gonzales, LA 70737
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Fax: 866-647-4383

Clute, TX
901 Wilson Rd.
Clute, TX 77531
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Fax: 866-647-3785

FOR MORE INFORMATION, CONTACT YOUR LOCAL BRANCH.



STUD BOLT CHART

Number and Size of Bolts for Flanged Joints – ASME B16.5

Primary Service 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	5	6	8	10	12	14	16	18	20	24
Class 150	Number		4	4	4	4	4	4	4	4	8	8	8	8	8	12	12	12	16	16	20	20
	Diameter		1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	3/4	3/4	3/4	7/8	7/8	1	1	1-1/8	1-1/8	1-1/4
	Length of Stud Bolts	1/16" RF	2-1/4	2-1/2	2-1/2	2-3/4	2-3/4	3-1/4	3-1/2	3-1/2	3-1/2	3-1/2	3-3/4	4	4-1/4	4-1/2	4-3/4	5-1/4	5-1/4	5-3/4	6-1/4	6-3/4
		RTJ			3	3-1/4	3-1/4	3-3/4	4	4	4	4	4-1/4	4-1/2	4-3/4	5	5-1/4	5-3/4	5-3/4	6-1/4	6-3/4	7-1/4
	Length of Machine Bolts	1/16" RF	2	2	2-1/4	2-1/4	2-1/2	2-3/4	3	3	3	3	3-1/4	3-1/4	3-1/2	4	4	4-1/2	4-1/2	5	5-1/2	6
Ring Number				R15	R17	R19	R22	R25	R29	R33	R36	R40	R43	R48	R52	R56	R59	R64	R68	R72	R76	
Class 300	Number		4	4	4	4	4	8	8	8	8	8	8	12	12	16	16	20	20	24	24	24
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	3/4	3/4	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
	Length of Stud Bolts	1/16" RF	2-1/2	3	3	3-1/4	3-1/2	3-1/2	4	4-1/4	4-1/4	4-1/2	4-3/4	4-3/4	5-1/2	6-1/4	6-3/4	7	7-1/2	7-3/4	8	9
		RTJ	3	3-1/2	3-1/2	3-3/4	4	4	4-1/2	4-3/4	5	5	5-1/4	5-1/2	6	6-3/4	7-1/4	7-1/2	8	8-1/4	8-3/4	10
	Length of Machine Bolts	1/16" RF	2-1/4	2-1/2	2-1/2	2-3/4	3	3	3-1/4	3-1/2	3-3/4	3-3/4	4-1/4	4-1/4	4-3/4	5-1/2	5-3/4	6-1/4	6-1/2	6-3/4	7-1/4	8
Ring Number		R11	R13	R16	R18	R20	R23	R26	R31	R34	R37	R41	R45	R49	R53	R57	R61	R65	R69	R73	R77	
Class 400	Number		4	4	4	4	4	8	8	8	8	8	8	12	12	16	16	20	20	24	24	24
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8	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
	Length of Stud Bolts	1/4" RF	3	3-1/2	3-1/2	3-3/4	4-1/4	4-1/4	4-3/4	5	5-1/2	5-1/2	5-3/4	6	6-3/4	7-1/2	8	8-1/4	8-3/4	9	9-1/2	10-1/2
		M&F, T&G	2-3/4	3-1/4	3-1/4	3-1/2	4	4	4-1/2	4-3/4	5-1/4	5-1/4	5-1/4	5-3/4	6-1/2	7-1/4	7-3/4	8	8-1/2	8-3/4	9-1/4	10-1/4
		RTJ	3	3-1/2	3-1/2	3-3/4	4-1/4	4-1/4	4-3/4	5	5-1/2	5-1/2	5-3/4	6	6-3/4	7-1/2	8	8-1/4	8-3/4	9	9-3/4	11
Ring Number		R11	R13	R16	R18	R20	R23	R26	R31	R34	R37	R41	R45	R49	R53	R57	R61	R65	R69	R73	R77	
Class 600	Number		4	4	4	4	4	8	8	8	8	8	8	12	12	16	20	20	20	20	24	24
	Diameter		1/2	5/8	5/8	5/8	3/4	5/8	3/4	3/4	7/8	7/8	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
	Length of Stud Bolts	1/4" RF	3	3-1/2	3-1/2	3-3/4	4-1/4	4-1/4	4-3/4	5	5-1/2	5-3/4	6-1/2	6-3/4	7-1/2	8-1/2	8-3/4	9-1/4	10	10-3/4	11-1/4	13
		M&F, T&G	2-3/4	3-1/4	3-1/4	3-1/2	4	4	4-1/2	4-3/4	5-1/4	5-1/2	6-1/4	6-1/2	7-1/4	8-1/4	8-1/2	9	9-3/4	10-1/2	11	12-3/4
		RTJ	3	3-1/2	3-1/2	3-3/4	4-1/4	4-1/4	4-3/4	5	5-1/2	5-3/4	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	13-1/4
Ring Number		R11	R13	R16	R18	R20	R23	R26	R31	R34	R37	R41	R45	R49	R53	R57	R61	R65	R69	R73	R77	
Class 900	Number		4	4	4	4	4	8	8	8		8	8	12	12	16	20	20	20	20	20	20
	Diameter		3/4	3/4	7/8	7/8	1	7/8	1	7/8		1-1/8	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
	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	7-1/2	7-1/2	8-3/4	9-1/4	10	10-3/4	11-1/4	12-3/4	13-3/4	17-1/4
		M&F, T&G	4	4-1/4	4-3/4	4-3/4	5-1/4	5-1/2	6	5-1/2		6-1/2	7-1/4	7-1/4	8-1/2	9	9-3/4	10-1/2	11	12-1/2	13-1/2	17
		RTJ	4-1/4	4-1/2	5	5	5-1/2	5-3/4	6-1/4	5-3/4		6-3/4	7-1/2	7-3/4	8-3/4	9-1/4	10	11	11-1/2	13-1/4	14-1/4	18
Ring Number		R12	R14	R16	R18	R20	R24	R27	R31		R37	R41	R45	R49	R53	R57	R62	R66	R70	R74	R78	
Class 1500	Number		4	4	4	4	4	8	8	8		8	8	12	12	12	16	16	16	16	16	16
	Diameter		3/4	3/4	7/8	7/8	1	7/8	1	1-1/8		1-1/4	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
	Length of Stud Bolts	1/4" RF	4-1/4	4-1/2	5	5	5-1/2	5-3/4	6-1/4	7		7-3/4	9-3/4	10-1/4	11-1/2	13-1/4	14-3/4	16	17-1/2	19-1/2	21-1/4	24-1/4
		M&F, T&G	4	4-1/4	4-3/4	4-3/4	5-1/4	5-1/2	6	6-3/4		7-1/2	9-1/2	10	11-1/4	13	14-1/2	15-3/4	17-1/4	19-1/4	21	24
		RTJ	4-1/4	4-1/2	5	5	5-1/2	5-3/4	6-1/4	7		7-3/4	9-3/4	10-1/2	12-3/4	13-1/2	15-1/4	16-3/4	18-1/2	20-3/4	22-1/4	25-1/2
Ring Number		R12	R14	R16	R18	R20	R24	R27	R35		R39	R44	R46	R50	R54	R58	R63	R67	R71	R75	R79	
Class 2500	Number		4	4	4	4	4	8	8	8		8	8	8	12	12	12					
	Diameter		3/4	3/4	7/8	1	1-1/8	1	1-1/8	1-1/4		1-1/2	1-3/4	2	2	2-1/2	2-3/4					
	Length of Stud Bolts	1/4" RF	4-3/4	5	5-1/2	6	6-3/4	7	7-3/4	8-3/4		10	11-3/4	13-1/2	15	19-1/4	21-1/4					
		M&F, T&G	4-1/2	4-3/4	5-1/4	5-3/4	6-1/2	6-3/4	7-1/2	8-1/2		9-3/4	11-1/2	13-1/4	14-3/4	19	21					
		RTJ	4-3/4	5	5-1/2	6	6-3/4	7	8	9		10-1/4	12-1/4	14	15-1/2	20	22					
Ring Number		R13	R16	R18	R21	R23	R26	R28	R32		R38	R42	R47	R51	R55	R60						

Lengths of studs and bolts, when used with lap joint flanges, are dependent upon the thickness of the lap of the stub end. Stud-bolt lengths do not include the height of the points.

FOR MORE INFORMATION, CONTACT YOUR LOCAL BRANCH.

