



2101 W. 42nd St. • Odessa, TX 79764 • Office 432-550-0744
 10111 W. Industrial • Midland, TX 79706 • Office 432-563-2658

1926 W. Bender • Hobbs, NM 88240 • Office 575-433-2658
 3007 S. Manning • El Reno, OK 73036 • Office 405-896-2000

NUMBER AND SIZE OF BOLTS FOR FLANGED JOINTS 0 ASME B16.5

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
Class 150	Number		4	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	¾	¾	¾	¾	¾	¾	¾	¾	1	1	1	1	1½	1½	1½
	Length of Stud Bolts	½" RF	2¼	2½	2½	2¾	2¾	3¼	3½	3½	3½	3½	3½	4	4¼	4½	4¼	5¼	5¼	5¼	6¼	6¼
		RTJ			3	3¼	3¼	3¼	4	4	4	4	4¼	4½	4¼	5	5¼	5¼	5¼	6¼	6¼	7¼
	Length of Mach. Bolts	½" RF	2	2	2¼	2¼	2½	2¼	3	3	3	3	3¼	3¼	3½	4	4	4½	4½	5	5½	6
Ring No.				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		½	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	1	1½	1½	1½	1½	1½	1½	1½
	Length of Stud Bolts	½" RF	2½	3	3	3¼	3½	3½	4	4¼	4¼	4½	4¼	4¼	5½	6¼	6¼	7	7½	7¼	8	9
		RTJ	3	3	3½	3¾	4	4	4½	4¾	5	5	5½	5½	6	6¼	7¼	7½	8	8¼	8¾	10
	Length of Mach. Bolts	½" RF	2¼	2½	2½	2¾	3	3	3¼	3½	3¾	3¾	4¼	4¼	4¼	5½	5¼	6¼	6½	6¾	7¼	8
Ring No.		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		½	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	1	1½	1½	1½	1½	1½	1½	1½
	Length of Stud Bolts	¼" RF	3	3½	3½	3¾	4¼	4¼	4¼	5	5½	5½	5¼	6	6¼	7½	8	8¼	8¾	9	9½	10½
		M&F T&G	2¼	3¼	3¼	3½	4	4	4½	4¾	5¼	5¼	5¼	5¼	6½	7¼	7¼	8	8½	8¾	9¼	10¼
		RTJ	3	3½	3½	3¾	4¼	4¼	4¼	5	5½	5½	5¼	6	6¼	7½	8	8¼	8¾	9	9¼	11
Ring No.		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		½	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾	1	1	1½	1½	1½	1½	1½	1½	1½
	Length of Stud Bolts	¼" RF	3	3½	3½	3¾	4¼	4¼	4¼	5	5½	5¼	6½	6¼	7½	8½	8¾	9¼	10	10¾	11¼	13
		M&F T&G	2¼	3¼	3¼	3½	4	4	4½	4¾	5¼	5¼	6¼	6½	7¼	8¼	8½	9	9¼	10½	11	12¾
		RTJ	3	3½	3½	3¾	4¼	4¼	4¼	5	5½	5¼	6½	6¼	7¼	8½	8¾	9¼	10	10¾	11½	13¼
Ring No.		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		¾	¾	¾	¾	1	¾	1	¾		1½	1¼	1½	1½	1½	1½	1½	1½	1½	2	2½
	Length of Stud Bolts	¼" RF	4¼	4½	5	5	5½	5¼	6¼	5¼		6¼	7½	7½	8¼	9¼	10	10¼	11¼	12¼	13¼	17¼
		M&F T&G	4	4¼	4¼	4¼	5¼	5½	6	5½		6½	7¼	7¼	8½	9	9¼	10½	11	12½	13½	17
		RTJ	4¼	4½	5	5	5½	5¼	6¼	5¼		6¼	7½	7¼	8¼	9¼	10	11	11½	13¼	14¼	18
Ring No.		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		¾	¾	¾	¾	1	¾	1	1½		1¼	1½	1½	1½	1½	2	2¼	2½	2¼	3	3½
	Length of Stud Bolts	¼" RF	4¼	4½	5	5	5½	5¼	6¼	7		7¼	9¼	10¼	11½	13¼	14¼	16	17½	19½	21¼	24¼
		M&F T&G	4	4¼	4¼	4¼	5¼	5½	6	6¼		7½	9½	10	11¼	13	14½	15¼	17¼	19¼	21	24
		RTJ	4¼	4½	5	5	5½	5¼	6¼	7		7¼	9¼	10½	12¼	13½	15¼	16¾	18½	20¼	22¼	25½
Ring No.		R12	R14	R16	R18	R20	R24	R27	R35		R39	R44	R46	R50	R54	R58	R63	R67	R71	R75	R79	

Stud-Bolt length do not include the height of the points.

Length of stud and bolts, when used with lap joint flanges, are dependent upon the thickness of the lap of the stub end.

**24 HOUR
SERVICE**



**BARNHART
BOLT**
& SPECIAL FASTENERS, INC.

**FREE
DELIVERY**

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Stud Bolts

- B7 Black
- B7 Cadmium
- B8 (304 SS)
- B8M (316 SS)
- L7
- B7 Modified
- B7 Teflon Coated
- Combination Studs
- Tap Ends (Pad Studs)
- B16

Gaskets

- Ring Joint Steel Low Carbon
- R, BX, RX Rubber Coated, Stainless Steel
- Combination Ring Joint
- Insulation Flange Kits
- Spiral Wound (CG & CGI)
½ Inch To 24 Inch
½ Inch To 30 Inch
- Raised Face (L441 Material)
- Full Face (L441 Material)

Hex Head Capscrews

- Grade 5
- Grade 8
- Coarse & Fine Thread
- B7 Cadmium

- Stainless Steel
- Metric
- Heavy Hex

Structural Bolting

- Grade A325
- Grade A307
- Wedge Anchors
- Ell Type Anchors
- Lifting Eye bolts
- U-Bolts
- Tank Bolts
- Insulated U-Bolts

Nuts

- Grade 5
- Grade 8
- 2H Nuts
- Stainless Steel

- Metric
- Stover Locknuts
- Nylocks (Nylon Insert)

Flat Washers & Lock Washers

- Most Grades
- Most Types
- Fender Washers
- Bevel Washers

- Nordlok
- Metric
- High Collar
- Stainless Steel

Socket Products

- Socket Head Capscrew
- Flat Head (Counter Sunk)
- Square Head (Jack Bolts)
- Set Screws
- Pipe Plugs

All Thread Rod

We Cut & Chamfer Desired Length At No Extra Charge

- Grade B7, 4140
- 304 Stainless Steel
- 316 Stainless Steel
- Teflon Coated

- Metric
- Mild Steel
- B7 Cadmium Plated
- Galvanized (L/C)

Miscellaneous Items

Grade 5 w/ Nuts & Washers (Package Assortments) • Grade 8 w/ Nuts & Washers (Package Assortments)

Grease Zerts • Cotter Pins • Hose Clamps • Drill Bits • Tie Down Straps • Gloves

Spray Paint • Thread Lock • Taps • Dies • Keyserts • Tie Wire

Anti-Seize • Pins • Bolt Bins • Knives (True Brand)

Black Rifle Coffee • Pelican Brand Coolers • TEK Screws

NOW STOCKING FLANGES, FITTINGS AND HAMMER UNIONS!

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