



Pipe Size	150# BOLT QTY.	150# BOLT SIZE	300# BOLT QTY.	300# BOLT SIZE	400# BOLT QTY.	400# BOLT SIZE	600# BOLT QTY.	600# BOLT SIZE	900# BOLT QTY.	900# BOLT SIZE	Pipe Size
1/2"	4	1/2X2	4	1/2X2-1/4	4	1/2X2-1/2	4	1/2X2-1/2	4	3/4X3-1/4	1/2"
3/4"	4	1/2X2	4	5/8X2-1/2	4	5/8X2-3/4	4	5/8X2-3/4	4	3/4X3-1/2	3/4"
1"	4	1/2X2	4	5/8X2-1/2	4	5/8X3	4	5/8X3	4	7/8X4	1"
1-1/4"	4	1/2X2-1/4	4	5/8X2-3/4	4	5/8X3	4	5/8X3	4	7/8X4	1-1/4"
1-1/2"	4	1/2X2-1/4	4	3/4X3	4	3/4X3-1/4	4	3/4X3-1/4	4	1X4-1/2	1-1/2"
2"	4	5/8X2-3/4	8	5/8X3	8	5/8X3-1/2	8	5/8X3-1/2	8	7/8X4-1/2	2"
2-1/2"	4	5/8X3	8	3/4X3-1/4	8	3/4X3-3/4	8	3/4X3-3/4	8	1 X 5	2-1/2"
3"	4	5/8X3	8	3/4X3-1/2	8	3/4X4	8	3/4X4	8	7/8X4-1/2	3"
4"	8	5/8X3	8	3/4X4	8	7/8X4-1/2	8	7/8X4-1/2	8	1-1/8X5-1/2	4"
5"	8	3/4X3-1/4	8	3/4X4	8	7/8X4-1/2	8	1X5-1/2	8	1-1/4X6	5"
6"	8	3/4X3-1/4	12	3/4X4	12	7/8X5	12	1X5-1/2	12	1-1/8X6-1/2	6"
8"	8	3/4X3-1/2	12	7/8X4-1/2	12	1X5-1/2	12	1-1/8X6-1/2	12	1-3/8X8	8"
10"	12	7/8X4	16	1 X 5-1/2	16	1-1/8X6	16	1-1/4X7	16	1-3/8X8	10"
12"	12	7/8X4	16	1-1/8X5 1/2	16	1-1/4X7	20	1-1/4X8	20	1-3/8X9	12"
14"	12	1X4-1/2	20	1-1/8X6	20	1-1/4X7	20	1-3/8X8	20	1-1/2X9	14"
16"	16	1X4-1/2	20	1-1/4X6	20	1-3/8X7	20	1-1/2X9	20	1-5/8X10	16"
18"	16	1-1/8X5	24	1-1/4X7	24	1-3/8X8	20	1-5/8X10	20	1-7/8X11	18"
20"	20	1-1/8X5	24	1-1/4X7	24	1-1/2X8	24	1-5/8X10	20	2X12	20"
22"	20	1-1/4X5 1/2	24	1-1/2X8	24	1-5/8X8					22"
24"	20	1-1/4X5 1/2	24	1-1/2X8	24	1-3/4X9	24	1-7/8X11	20	2-1/2X14	24"

* Length of Studs & Bolts, when used with lap joint flanges, are dependent upon the thickness of the lap of the stub end.

* Information deemed reliable but not guaranteed.

*This is for flange BOLTS, not studs (bolts= hex head cap screws).