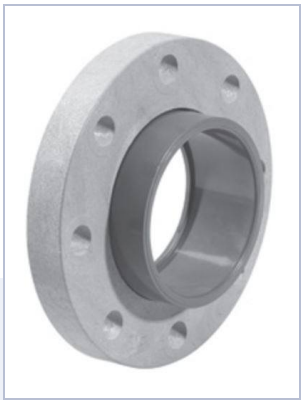
★ BAILIFF ENTERPRISES, INC. ★

FLANGE TORQUE SETTINGS

Loose-ring (Vanstone) flanges

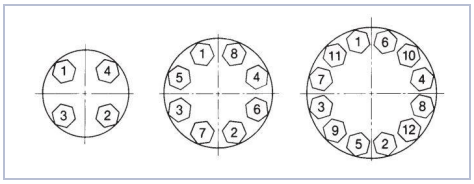
When possible, we use loose rings (Vanstone style) on our flanges. They are easier to line up with the mating flange face. These rings are made from fiber-glass-filled PVC and can be damaged if the connecting bolts are over-tightened.



It is important to tighten bolts using the pattern shown below and with the torque settings shown in the chart.

> **ALWAYS:** use two (2) wide flat washers per bolt — one under the head and one under the nut. Threads should be clean and well lubricated.

BOLT TIGHTENING PATTERN



RECOMMENDED TORQUE

Flange Size (in.)	No. of Bolt Holes	Bolt Dia. (in.)	Min. Bolt Length (in.)	Recommended Torque (ft-lbs)
½	4	½	2	15–20
¾	4	½	2	15–20
1	4	½	2¼	15–20
1¼	4	½	2¼	15–20
1½	4	½	2½	15–20
2	4	5/8	3	20–30
2½	4	5/8	3¼	20–30
3	4	5/8	3¼	20–30
4	8	5/8	3½	20–30
5	8	3/4	3¾	25–35
6	8	3/4	4	33–50
8	8	3/4	4½	33–50
10	12	7/8	5	53–75
12	12	7/8	5	53–75

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