Wafer Vane Installation Guide

Installation procedure for six-vane flow straightener

This procedure applies to all prop meters and all sizes.

Point Vanes Away From Meter

MATERIALS

• 2 Rubber Gaskets (Other gaskets may be used)
• 1 Wafer Vane
• Bolt sets, including for each bolt: 1 bolt, 2 washers, and 1 nut

BEST PRACTICES

• Regardless of line size, always start with a few bolts on the bottom of the flange to hold up the wafer vane.
• Always finger tighten bolts first, followed by permanent tightening in a star pattern as you would on a car tire.
• Always use gaskets. Factory recommends rubber gaskets.
• Leaving every other bolt hole empty is fine. If there is leaking, add the rest of the bolts or loosen them all, then systematically retighten them all. Don’t loosen and re-tighten them individually.

PROCEDURE

1. Insert bottom two bolts, which will hold up wafer vane during install.
2. Install wafer vane between two gaskets. **MAKE SURE VANES ARE POINTING AWAY FROM METER.**
   a. Set gasket in place.
   b. Set the wafer vane against the gasket.
   c. Set the second gasket over the wafer vane.

3. Bring flanges together around wafer vane and gaskets.

4. Put a nut on the bolt nearest the top of the flange; this will hold the flanges together during the rest of install.

5. Install bolt sets on every other hole, and finger tighten all bolt sets.

6. Using an impact drill, power drill, or wrenches, tighten all bolts in a star pattern.

7. Insert the remaining bolts sets and tighten them in a star pattern.

Although the gaskets between the flanges may not look tight in the channel, they are tight against the metal farther into the flange.