



Installation Instructions: AA9FL-FP Adapter 3.0" ANSI 150 x 4.0" ANSI 150

Additional equipment needed (not included):

- Torque wrench with 80 ft-lb (110 N-m) capacity, qty. 1
- Wrench socket to fit 5/8-11 bolts, qty. 1
- 3" ANSI 150 ring gasket, qty. 1
- 4" ANSI 150 ring gasket, qty. 1
- 5/8-11" x 2" long* heavy hex coarse thread bolts, qty. 12
- Tape measure or ruler*, qty. 1

***Important: Engagement of bolt threads into adapter must be between 7/8 and 1-1/4", which may require a different length bolt for some combinations of equipment. See installation step 1 below.**

Structural requirements for pipe flange mounted monitors:

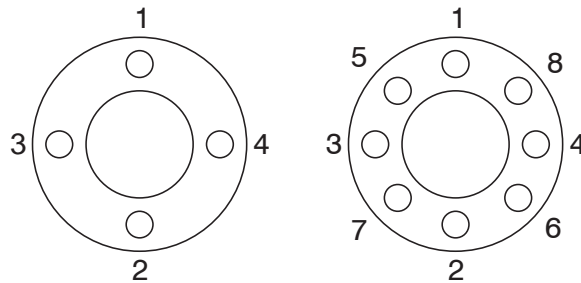
This flange adapter is intended to adapt a monitor with 4" ANSI 150 inlet flange to a standpipe with a 3" ANSI 150 flange or vice versa. Read monitor installation manual to verify all requirements are met.

WARNING

Injury can result from an inadequately supported monitor. The structure to which the monitor is mounted must be capable of withstanding the internal pressure of the monitor as well as shear and bending forces due to nozzle reaction. Nozzle reaction can be as high as 1500 lbs (680 kg) (2000 gpm at 200 psi, 1600 gpm at 300 psi). Flanges and pipe made from plastic are inadequate for monitor mounting and must not be used.

Installation Instructions:

1. Place the 3" ANSI 150 ring gasket over the standpipe flange, then install a 5/8"-11 bolt into one of the flange bolt holes. While holding the bolt in place by hand, use a tape measure or ruler to verify that the bolt protrudes past the gasket by 7/8 to 1-1/4". Repeat for monitor flange using the 4" ANSI 150 ring gasket. If the bolt protrusion is not within 7/8 to 1-1/4", then a different length of bolts or studs/nuts must be acquired to meet this requirement.
2. Remove bolt. Place adapter over gasket with the four blind tapped holes facing down. Align these blind tapped holes with the holes in the standpipe flange.
3. Apply Loctite 242 (blue) to four 5/8-11 bolts or studs/nuts in approximately a 1" stripe starting at the tip of the bolt. Install bolts or studs finger tight through standpipe flange into adapter.
4. Tighten the four bolts/ nuts in the alternating sequence shown below. Tighten sequentially each bolt three times to 24 ft-lb (33 N-m), then 48 ft-lb (66 N-m), and finally 76-80 ft-lb (100-110 N-m).
5. Place 4" ANSI 150 ring gasket over adapter, then place monitor over the gasket and align the bolt holes in the flange with the tapped holes in the adapter.
6. Apply Loctite 242 (blue) to eight 5/8-11 bolts or studs/nuts in approximately a 1" stripe starting at the tip of the bolt. Install bolts or studs finger tight through monitor flange into adapter.
7. Tighten the eight bolts/nuts in the alternating sequence shown below. Tighten sequentially each bolt three times to 24 ft-lb (33 N-m), then 48 ft-lb (66 N-m), and finally 76-80 ft-lb (100-110 N-m).



Tighten sequentially each bolt three times.