

Blancett®

FLOW METERS

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INSTALLATION & INSTRUCTION MANUAL

FloClean^Ô

Turbine Meter Repair Kits

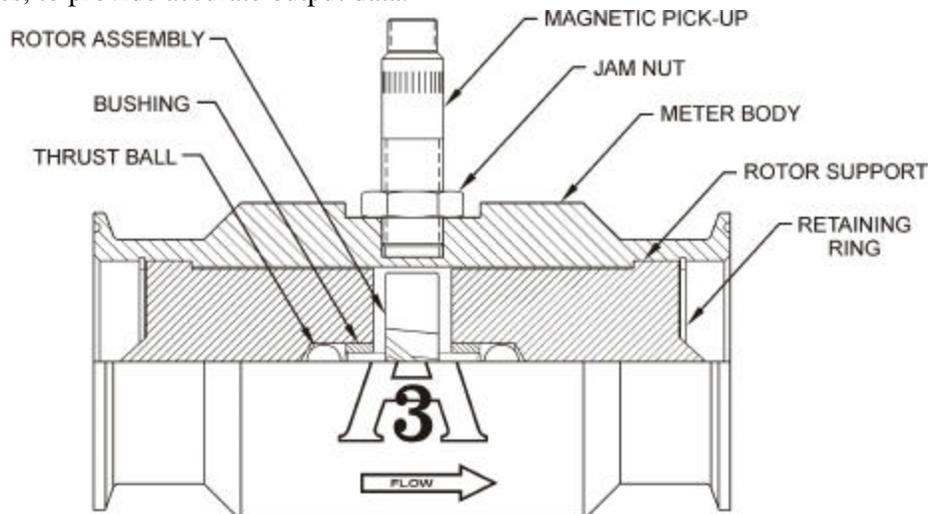
Rev. A

GENERAL DESCRIPTION:

The FloClean™ turbine flow meter is designed with wear resistant moving parts to provide trouble free operation and long service life per 3-A specifications. The kit allows easy field repair of a damaged flow meter, rather than replacing the entire flow meter. Repair parts are constructed of stainless steel alloy and tungsten carbide.

Fluid moving through the turbine flow meter causes the rotor to turn at a speed proportional to the flow rate. The rotor blade cuts the magnetic field of the magnetic pick-up, which in turn generates a frequency output signal that is directly proportional to the speed. The signal is used to represent flow rate and/or totalization of fluid passing through the turbine flow meter. See **Figure 1** for typical turbine meter assembly.

Each FloClean repair kit is factory calibrated to ensure accuracy throughout the entire flow range. Each kit is complete and includes a new K-Factor, which is the calibrated number of pulses generated by each gallon of liquid. This K-factor will be used to recalibrate the monitor, or other electronics, to provide accurate output data.



FLOCLEAN[®] TURBINE METER REMOVAL

WARNING: High-pressure leaks are dangerous and cause personal injury. Make sure that fluid flow has been shut off and pressure in the line released before attempting to remove the meter.

DISASSEMBLY

Refer to Figures 2, 3, and 4 for relative positions of repair kit components.

1. Remove the magnetic pick-up from the meter body to avoid damage during repair.
2. Remove the retaining ring from one end of the meter.
3. Remove the rotor support from the body. If the rotor support is jammed in the body, use a pair of pliers or vice-grips to break the rotor support free.
4. The rotor may also be removed at this time.
5. Remove the retaining ring from the opposite side of the meter.
6. Remove the second rotor support.

INSTALLATION OF NEW KIT:

IMPORTANT: Before reassembly, note there are weep holes on each rotor support, these weep holes must be facing down toward the bottom of the meter body when being installed.

The meter must be reassembled with the arrowheads on the rotor pointed in the direction of fluid flow. The magnetic pick-up side of the body signifies the up position. This is the position that the repair kit was calibrated, and this is the position it is to be used to ensure meter accuracy. Due to the specification of 3-A, there are not any arrows on the rotor support to indicate which rotor support be place upstream or downstream, please install them just as you received them in the box, using the arrow on the rotor to determine the placement of the rotor support.

1. Install one of the rotor support into the body bore, noting the orientation of the weep hole.
2. Secure a retaining ring in the groove provided. Be sure that the retaining ring is completely installed in each groove.
3. Insert the rotor and second rotor support in the opposite side of the body, noting the orientation of the arrow on the rotor and the weep hole on the rotor support.
4. Secure the second retaining ring in the opposite groove, as noted in Step 2 above.
5. Check the meter by blowing air through the assembly. If the rotor does not turn freely, the meter should be disassembled and checked for anything that would obstruct movement of the rotor.

CAUTION: Excess air pressure may damage the rotor and bearings by overspinning.

6. Install the magnet pick-up.

Note: At this time electronics will need recalibration. Refer to the proper installation and operation manual. If there are any questions on recalibration, contact Blancett factory toll free number 1.800.235.1638, or the manufacturer of the associated electronics.

Each FloClean[™] repair kit has been clean at the factory per 3A specifications and handle with care, it is recommended that you clean your meter once the kit has been installed.