MVTM Turbine Meter Cleaning and Storage Procedure

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DISASSEMBLY AND CLEANING POST TESTING

CAUTION: When using water as a test medium a water/rust inhibitor solution must be used in order to prevent rusting after testing. Use 5% solution QC1208, or equivalent (Ex. .5 oz./gallon = 500-gallon tank ~2 gallons QC1208).

After successful test (if water is used), the following must be completed.

1. Drain thoroughly.
2. The measuring tube housing, stators etc. must be cleaned and dried by means of hot air or high-velocity air blow off, after disassembly.
   a. Remove the Internal Parts Kits
      i. Reference Bulletin MN02010 for detailed instructions.
   b. Remove all the fluid from the inside of the outer housing; the carbon steel housing must be dried thoroughly.
   c. Disassemble the Internal Parts Kits
      i. Reference Bulletin MN02010 for detailed instructions.
   d. Internal Parts Kits Components – Once disassembled clean and dry all surfaces of residual fluid. In addition, each bearing should be cleaned with a dry, clean, lint-free cloth.
   e. If the meter is being placed in long term storage, refer to step 1b of the Long Term Storage section of this document prior to reinstalling the internal parts kit assembly.
   f. Once all components are clean and dried, reassemble as appropriate.
      i. Reference Bulletin MN02010 for detailed instructions.
      ii. After assembling the IPK, carefully rotate the rotor in the measuring tube. If the rotor doesn't rotate freely, inspect all parts for proper alignment.

STORAGE

1. If the meter is not installed as soon as it is received, it is recommended that the complete meter assembly be stored under protective cover in an environmentally controlled area (humidity is greatest concern). Use original factory packaging.
2. Store the turbine meter in a safe area to avoid damage. Protect the housing and components from external impact of any kind.
3. Seal the inlet and outlet flanges of meter housing with flange covers to prevent intrusion of contaminants.
4. Examine housing for damage before its commissioning.

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LONG TERM STORAGE

1. For storage longer than 3 months, it is recommended that the complete meter assembly be stored under protective cover in an environmentally controlled area (humidity is greatest concern).
   a. Remove the Internal Parts Kits
      i. Reference Bulletin MN02010 for detailed instructions.
   b. Apply I.C.C. Anti-Rust 152 (or equivalent) rust inhibitor inside the carbon steel meter body liberally covering all surfaces.
   c. Reinstall the Internal Parts Kits
      i. Reference Bulletin MN02010 for detailed instructions.
   d. Seal the inlet and outlet flanges of meter housing with flange gaskets and blind flanges to prevent intrusion of contaminants.
2. Examine the internal surfaces and flange faces of the turbine meter housing at least once every three months for signs of rust and corrosion.
3. In the event of extended storage longer than 1 year, it is suggested to have FMC Technologies personnel inspect equipment before its commissioning.

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