USER INSTRUCTIONS



Installation Operation Maintenance

Magnetic Separator Installation and Maintenance Instruction

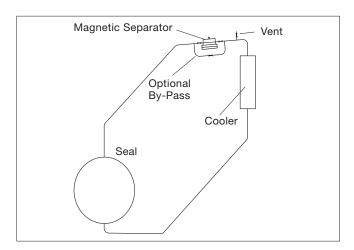
1. Equipment Check

1.1 Follow plant safety regulations prior to equipment disassembly:

- Lock out motor and valves
- Wear designated personal safety equipment
- Relieve any pressure in system
- Consult plant MSDS files for hazardous material regulations
- **1.2** Disassemble equipment to allow access to installation area

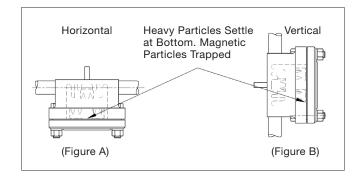
2. Install Magnetic Separator

- 2.1 Install separator in piping system as shown in P&ID
- **2.2** Ensure no flow restrictions or vapor spaces in line
- 2.3 Utilization of bypass line system (optional). A bypass arrangement can be utilized if cleaning of the separator is desired without depressurization of the system. Full diameter ball valves rated for system pressures and temperatures must be used.



2.4 Orientation

- Horizontal mounting is preferred (see figure A) as gravity will assist in settling heavy particles to the bottom of the separator away from the flow path and collection of magnetic particles
- Vertical mounting can be accommodated (see figure B) allowing heavy, non-magnetic particles to settle to the side of the flow path and still collect magnetic particles moved across the separator magnets



2.5 Carefully pressurize system

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- Vertical mounting can be accommodated (see figure B) allowing heavy, non-magnetic particles to settle to the side of the flow path and still collect magnetic particles moved across the separator magnets



3. Maintenance

Frequency of maintenance will depend on the flow rate and contamination level of the fluid passing through the magnetic separator. A maintenance interval should be developed by the customer based on individual application needs.

- **3.1** Decommission / Depressurize for cleaning. Drain system.
- **3.2** Remove bolts carefully being sure not to put stress on piping connections
- **3.3** Remove flange / magnetic assembly
- 3.4 Clean flange / magnetic assembly

3.5 Replace gasket. Inspect all components for corrosion and erosion. Critical components

Include:

- Body
- Flange
- Magnetic assembly
- Flange bolts

Replace any damaged components

- 3.6 Re-assemble flange to body and torque as per drawing
- 3.7 Carefully re-pressurize system. Check for leaks.
- 3.8 Re-commission

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SSIOM001922 (EN/AQ) October 2024

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