

Fitch Fuel Catalyst FHD UL Series

Installation, Operation and Service Instructions



The Fitch Fuel Catalyst assemblies are designed to meet the toughest hydrocarbon treatment conditions and give maintenance personnel ease of maintenance.

The assembly features a “locking ring collar”, which attaches the filter housing to the aluminum die cast filter head with four bolts. The slotted “locking ring collar” allows maintenance personnel to hand loosen the four collar bolts, rotate and lower the bowl assembly for cartridge change outs. With new cartridge installed, simply raise the bowl and rotate into position on the locking ring and hand tighten evenly.

The closure hardware consists of stainless steel nuts, bolts and washers with metal hand knobs for ease of maintenance.

Applications:

#2, 4, 5 & 6 heating oil

Standard Design Features:

- Die-cast aluminum head
- Steel filter bowl assembly
- Powder coated components
- “Locking ring collar”, no clamps
- 1 ½” NPT Inlet and Outlet
- 60 psi @ 240°F max design pressure
- Manual drain valve
- Manual vent valve

Advanced Power Systems International, Inc.
339 Main Street, Torrington, CT 06790
888-881-2774 or 860-496-7776 Fax 860-496-7626
www.fitchfuelcatalyst.com
Mail to: info@fitchfuelcatalyst.com



Installation, Operating & Service Instructions

Installation

Remove the housing protectors from the inlet and outlet connections. Make certain that connections are free of any debris.

Important: Ensure that a fuel filter is always placed before the Fitch Fuel Catalyst unit. Be sure to correctly identify the inlet and outlet connections to avoid piping the unit backwards. The unit will not perform properly if connections are reversed.

Provide shut-off valves in the inlet and outlet piping as close to the unit as possible for isolating the unit from the system when cartridge replacement is necessary. (See illustration)

Connect the housing into the piping system with a minimum number of turns and fittings, pipe dope and Teflon tape especially on the inlet side.

Provide room for the housing to clear the cartridge during change-out. **2 inch base clearance required.**

Operation and Service

NOTE: It is recommended that the vent and drain valves be opened on a scheduled basis to permit the escape of entrapped air and accumulated water.

Note: The head gasket should be carefully inspected for signs of damage or deterioration each time the housing is opened. We recommend the gasket be lubricated with petroleum jelly prior to installation.

Core Cleaning or Replacement Procedures

The Fitch Fuel Catalyst should be cleaned when used with 4 or 6 oil every 1,000 hours or 3 months. The Catalyst core should be replaced every 10,000 boiler working hours or 5 years.

Caution: Use only non-sparking tools when performing any maintenance or service work on this equipment.

1. Close the inlet and outlet isolation valves to isolate the filter from the system.
2. Open the drain valve on the housing bottom; allow all fluid to drain from the unit.
3. Open the vent valve on the cover of the housing; allow the unit to thoroughly vent before opening the cover.
4. Loosen the 4 knobs attaching the head to the housing flange.
5. Remove the head gasket and clean.
6. Flush the interior of the housing with clean, processed, filtered product or a suitable solvent. A nonmetallic bristle brush will help to remove caked-on debris. Rinse the housing and unit cover with a clean solvent and dry with soft, lint-free wiping cloths.

7. Lightly lubricate the head gasket with Vaseline or Petroleum Jelly and position it on the head. If Vaseline is not available lubricate the gasket with the fuel or oil it will be used in.
8. Insert the cleaned or new core into the housing.
9. "Rotate" housing onto the collar bolts, hand tighten knobs until head is "snug" to housing. See attached illustration.

NOTE: A torque wrench is recommended. Tighten all collar bolts to 50 in lbs.

10. Close the drain plug or valve on the bottom of the housing.
11. **SLOWLY** open the inlet and outlet valves; allow the unit to fill completely.
12. Leave the vent valve on top of the unit open; to allow entrapped air to escape while filling.
13. When a small amount of fluid flows from the vent, close it tightly.
14. During the initial filling and after the above maintenance, and while unit is in operation, examine housing and all connections for leaks. Including head/flange junction.
15. Assure any and all leaks are identified and repaired before allowing fuel to flow through housing.

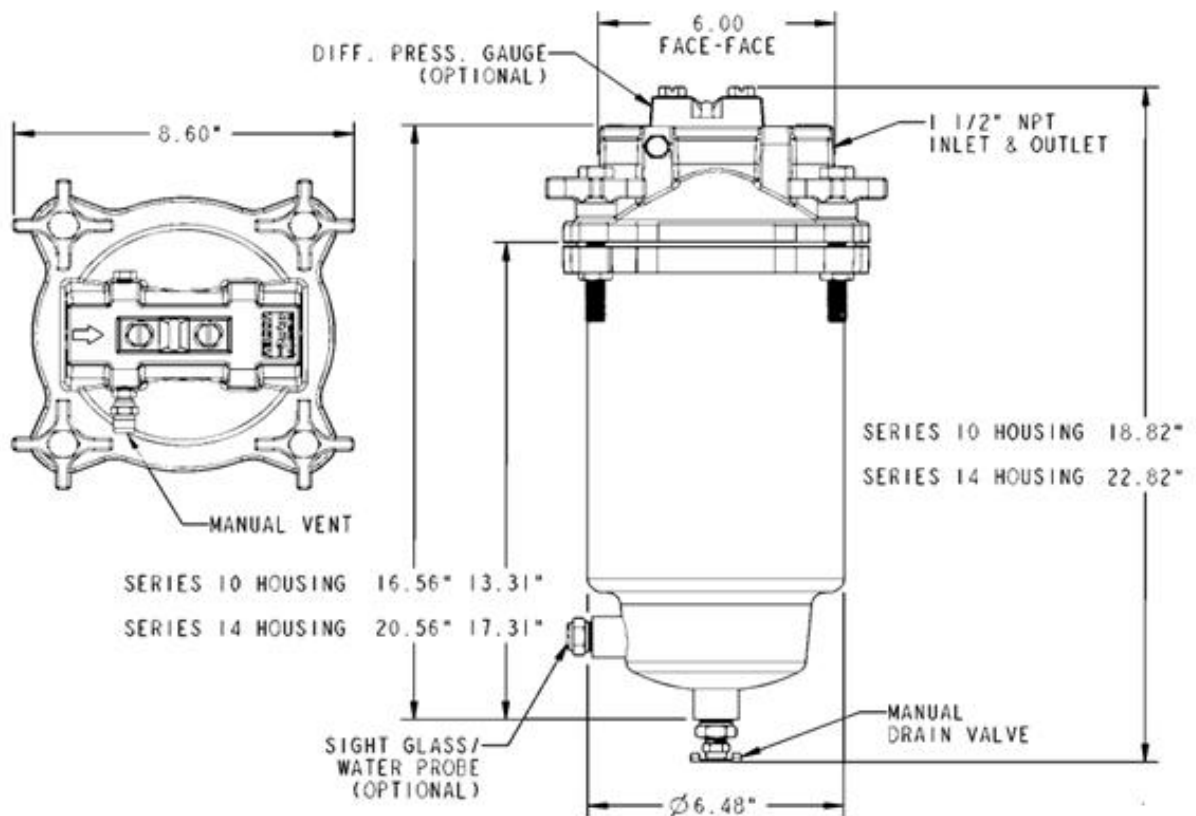
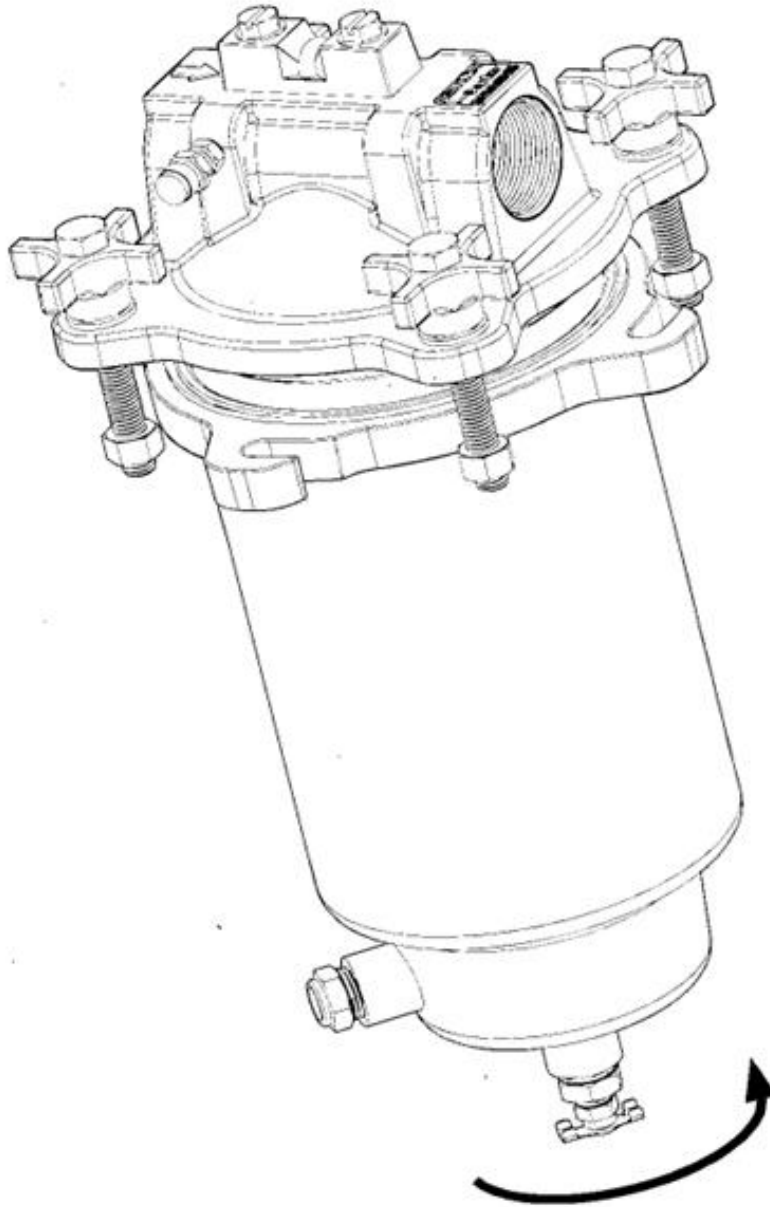


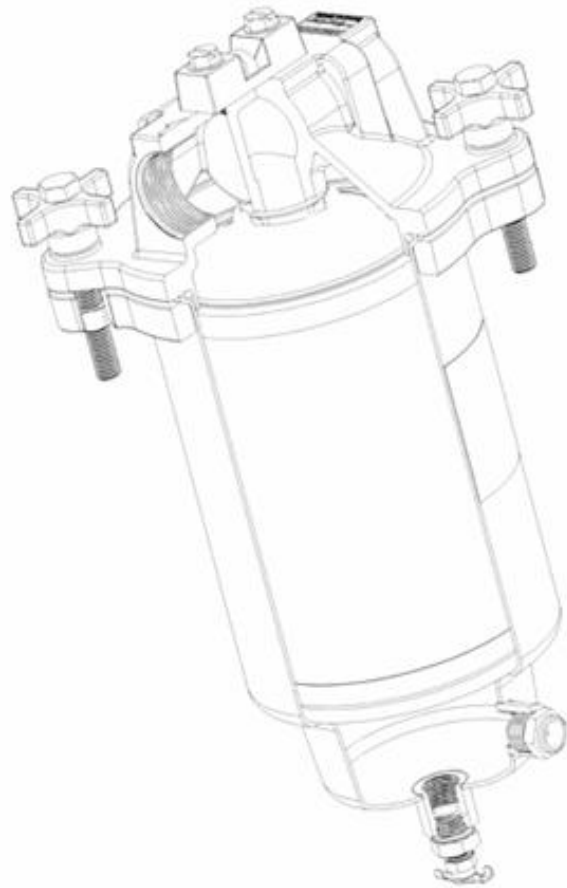
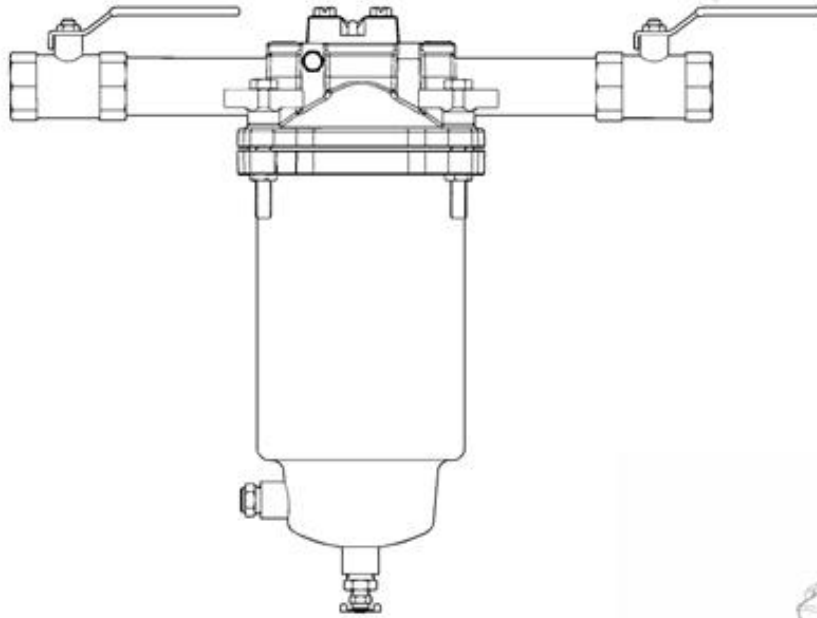
Illustration: Housing to Head Assembly



Notes:

1. Hand tighten all four collar bolts evenly.
2. If a torque wrench is used: torque each collar bolt to 50 in-lbs.

Illustration: Typical Isolation Valve Layout



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