

# OPERATING INSTRUCTIONS - DCF-800 **FILTER UNIT**

# **SPECIFICATIONS:**

### PIPING CONNECTIONS:

Inlet or Outlet: 2" NPTE (50 mm) or option ordered

Purge: 1-1/2" (40 mm) NPTE, or option ordered

FILTER ELEMENT TYPE: Slotted, Defined Pore, or Perforated

FILTER VOLUME: 4 US gallons (15 liters)

CONTAMINANT PURGE VOLUME: 25 US liquid ounces (0.75 liter)



# **SERVICE REQUIREMENTS:**

### PROCESS LIQUID:

Minimum Pressure: 150 PSIG (1035 kPa)
Minimum Pressure: 30 PSIG (2071) Maximum Pressure:

• Maximum Temperature: Defined by the elastomers and cleaning disc selected

# **WARNING!**

MAXIMUM WORKING PRESSURE IS 150 PSIG (1035 kPa). MAXIMUM DIFFERENTIAL PRESSURE FOR SLOTTED OR PERFORATED ELEMENT IS 110 PSID (760 kPa) AND FOR DEFINED PORE ELEMENT IS 50 PSID (345 kPa). THIS FILTER UNIT MAY BE UNDER PRESSURE - EXTREME CARE MUST BE TAKEN WHEN INSPECTING OR SERVICING THE FOUIPMENT. DO NOT STROKE CYLINDER WHEN BLOCK VALVES ARE CLOSED.

# **INSTALLATION:**

# Connection to Process Piping

- 1. Filter can be supported on inlet and outlet connections. Secure filter frame legs to foundation.
- 2. Attach the inlet and outlet connections to the interconnecting piping (customer supplied). To properly support the filter unit, mount the filter in a vertical position. Take care to avoid excessive nozzle loading at the threaded or flanged filter connections. Consult your pump manufacturer's installation guide for minimum pipe run length between the pump outlet and the inlet of the filter unit. NOTE: Isolation/block valves (supplied by others) are required on all process connections of the filter unit so the filter can be isolated from the process liquid in the event that service is required. Pressure gauges are also recommended on all process connections.
- 3. Connect the drain line (customer supplied) to the filter unit's purge valve. To avoid restricting purge flow the drain line should be: 1) the same or larger diameter as the purge valve size, 2) as short as possible, and 3) at or lower than the height of the purge valve.

### Installation Checklist

# Before operating the filter unit for the first time, complete the following checklist:

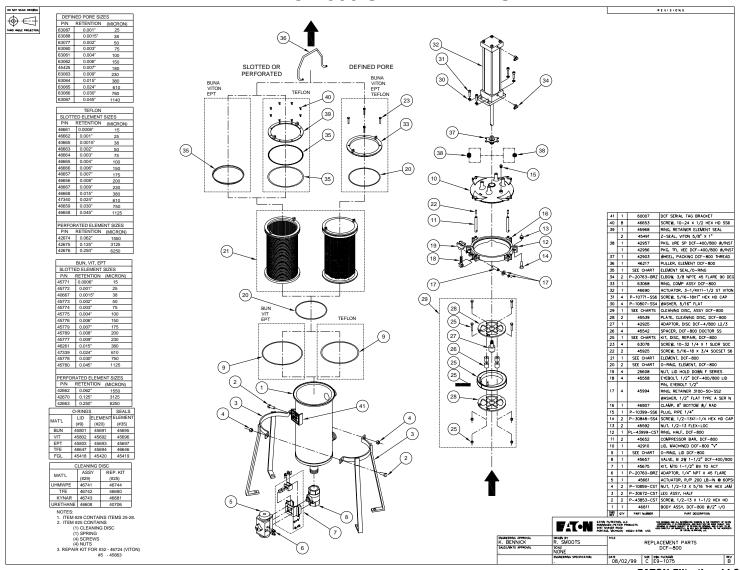
- 1. Verify that all process connections are secure and free of leaks.
- 2. Check the condition of the filter element. It should be clean and free of damage.
- 3. Confirm that top and bottom element seals are installed properly.
- 4. Verify that the gasket sealing the lid to the filter housing is in good condition and properly installed.
- 5. Verify that all lid bolts are tight.
- 6. Verify that the purge valve is closed.

Instruction PN 45102 - Rev. B Page 1 of 2

# **OPERATION:**

- 1. The DCF-800 cleaning disc should stroke the element clean to keep the differential pressure between the inlet and outlet of the filter below 15 PSID (105 kPa). Stroking too frequently will shorten the life of all wear components. Note: The burst strength of the filter elements is 110 PSID (760 kPa) differential pressure if using slotted or perforated elements and 50 PSID (345 kPa) if defined pore elements are used.
- The filter unit is supplied with a valve used to purge the contaminants from the housing. This valve should be opened before the collected contaminants exceed the purge volume and cause a differential pressure increase.
- 3. If manually cleaning the filter element, avoid high-pressure washing from the outside of the element. This may force contaminants into the filter media and cause permanent blockage and/or element damage.

### **DCF-800 SPARE PARTS**



#### **EATON Filtration, LLC**

www.filtration.eaton.com

9151 Shaver Road Portage, Michigan 49024-6798 USA Phone (Worldwide) +1 269 323 1313 Phone (U.S.) +1 800 656 3344 Fax +1 269 323 2403 Email filterinfo@eaton.com