

STEEL FILTER CHAMBERS

OPERATION AND
SERVICE GUIDE
O-1575
JUNE 1989

REFER TO PARTS LIST
P-7450

| MODELS | PRICE CODE NO. |
|------------|----------------|
| S50 (1)-2 | 78-0882 |
| S100 (2)-2 | 78-0883 |
| S150 (3)-2 | 78-0884 |

Initial Assembly and Start-up

Note: Inlet, outlet, vent and drain connections are labeled on this vessel.

WARNING: Do not service this vessel while inlet or outlet valves are open or while unit contains pressure. Do not, at any time, remove or loosen clamp before draining. Failure to open drain and vent will result in pressurized liquid being trapped in vessel. Pressured liquid will spray out when clamp is loosened which could cause serious injury or damage.

1. Close inlet valve.
2. Close outlet valve.
3. Before opening vessel, vent pressure by opening vent cock.

WARNING: Protect face and keep hands clear of vent cock while venting pressure.

4. Open drain.
5. Leave vent cock open to allow vessel to drain properly.
6. Loosen and remove only one of the V-band clamp bolts and then remove the V-clamp.
7. Turn cover counterclockwise to disengage the internal safety-latch (older models do not have safety latch).
8. Remove cover from vessel.

II. Media Replacement

Follow shut-down procedure.

1. Unscrew wing nut from centerpost.
2. Remove top plate to expose cartridges.
3. Remove top seat assembly from each cartridge.
4. Remove filter cartridges and discard. Retain spacers if cartridges are multi-stacked.

Inspect vessel interior and all components for wear, corrosion or damage. Replace if necessary.

Inspect bottom seat plate for damage. Replace if necessary.

7. Remove protective wrapping from new filter cartridges. Slide cartridges onto guides and firmly press onto bottom seat plates. Install spacers between cartridges if 10-inch filters are multi-stacked.

Install the top seat assembly on each cartridge. If springs are not level, check for missing spacers or improperly seated cartridges.

10. Reposition top plate onto centerpost and on top of springs and hand-tighten wing nut until the top plate contacts the centerpost jam nut.

Follow start-up procedure.

III. Cover Replacement and Start-up Procedures (or

Before installing cover, inspect vessel and all components for wear, corrosion or other damages.

1. **WARNING:** Operating vessel with damaged or worn parts could cause serious injury and damage.

Clean and inspect O-ring seating surfaces. Repair if necessary. Re-lubricate O-ring heavily with petroleum jelly.

2. Clean and inspect O-ring for damage. Replace if necessary. To reposition the cover, first align the outside locating lugs on the cover and body and then turn the cover clockwise engaging the internal safety latch. (Older models do not have safety latch.)

Re-install V-band clamp on vessel.

5. **WARNING:** Inspect V-band clamp and bolts for wear or damage. Replace, if necessary. Operating vessel with damaged or worn clamp and bolts could cause serious injury and damage.

Re-install bolt and tighten clamp and bolts with a torque wrench.

6. **WARNING:** Do not exceed 101/2 ft. lb. torque. Overtightening can damage clamp which could cause serious injury and damage.

Leave vent cock open.

7. **WARNING:** Failure to leave vent cock open when starting fluid flow will allow air to become entrapped and compressed in upper portion of vessel. Compressed air might damage clamp and rupture vessel resulting in serious injury and damage.

Close drain. (No independent drain on FCB model.)

Open inlet valve and allow vessel to fill slowly.

8. Close the vent cock after air is expelled from the vessel and liquid begins to bleed from vent.

10. Open outlet valve.

11. **WARNING:** If vessel leaks, do not tighten V-band clamp while filter vessel is pressurized. Doing so could damage clamp and rupture vessel resulting in serious injury and damage.

If vessel leaks, repeat shut-down and start-up procedures. Clean O-ring seating surfaces and install a new O-ring.

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