



STEEL & STAINLESS STEEL FILTER CHAMBERS

OPERATION AND
SERVICE GUIDE
O-2250B
SEPT. 1997

MODELS	PRICE CODE NOS.
S50(1)-2	78-0882
S100(2)-2	78-0883
S150(3)-2	78-0884
SS50(1)-2	78-0885
SS100(2)-2	78-0886
SS150(3)-2	78-0887

Refer to Bulletin C-201
and Parts List P-7450.

⚠ SAFETY PRECAUTIONS BEFORE STARTING

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to Chemical Resistance Data Chart for compatibility of chamber and gasket materials.
3. Note temperature and pressure limitations in bulletin.
4. Personnel operating pump should always wear suitable protective clothing: face mask or goggles, apron and gloves.
5. All piping must be supported and aligned independently of the pump.
6. Always close valves slowly to avoid hydraulic shock.
7. Ensure that all fittings and connections are properly tightened.

⚠ BEFORE CHANGING APPLICATION OR PERFORMING MAINTENANCE

1. Wear protective clothing as described in Item 4 above.
2. Flush pump thoroughly with a neutralizing solution to prevent possible harm to personnel.
3. Verify compatibility of materials as stated in Item 2 above.
4. Shut off power to motor at disconnect switch.

INSTALLATION

1. Note identification of inlet and outlet for proper installation.
2. Filter cartridge installation
 - a. Place V-posts in bottom seat and slide filter cartridge over posts. When stacking 10" cartridges, a spacer ring is required between cartridges.
 - b. Insert spring seat plate assembly on top of all cartridge columns. If springs are not level, check for missing spacers or improperly seated cartridges.
 - c. Place compression plate over center post and tighten wing nut until compression plate contacts center post jam nut.
3. Slowly open valves to allow fluid to pass through filter chamber. Inspect for leaks at all connections and cover.

SHUT DOWN AND COVER REMOVAL

WARNING: Do not attempt to open this filter while inlet or outlet valves are open or while unit

contains pressure.

1. Inlet or pressure side should always be closed first.
2. Next, close outlet or discharge side.
3. Any pressure which may be in the filter vessel after inlet and outlet valves have been closed should be vented before attempting to open vessel. Care should be taken to keep face and hands protected and clear of filter vessel check while venting the filter vessel.

⚠ **CAUTION:** Do not, at any time, remove or loosen cover clamp before draining. Failure to open drain and vent can result in pressurized liquid being trapped in vessel. Liquid could spray out when cover clamp is loosened, causing personal injury or damage to equipment.

4. Open drain.
5. Open vent to allow vessel to drain properly.
6. Loosen and remove V-band clamp bolt and the V-clamp. The clamp joint with the round head bolt does not have to be loosened.

⚠ **CAUTION:** Inspect V-band clamp and bolt for wear. Also, inspect vessel for dents, corrosion, or other damage to equipment. Damaged components might cause malfunction during operation, causing personal injury and damage to equipment.

7. Remove cover from vessel.

COVER REPLACEMENT AND START-UP PROCEDURES (OR INITIAL ASSEMBLY AND START-UP)

⚠ **NOTE:** Inlet, outlet, vent and drain connections are labeled on the filter.

1. Clean and inspect gasket seating surfaces. Relubricate gasket heavily with petroleum jelly.
2. Clean and inspect gasket for damage. Replace if necessary. Note: Tapered portion of gasket is to face outward.
3. Reposition cover to vessel body.
4. Reposition V-band clamp to vessel.

⚠ CAUTION: Inspect V-band clamp and bolts for wear. Also, inspect vessel for dents, corrosion, or other damage. Damaged components might cause malfunction during operation, causing personal injury and damage to equipment.

5. Reinstall bolt and tighten clamp to a point where joints are properly closed.

⚠ CAUTION: Do not exceed 10½ ft. lb. of torque. Overtightening can damage equipment. The use of a torque wrench is recommended.

6. Leave vent cock open.

⚠ CAUTION: Be sure to leave vent open. Failure to open vent when starting fluid flow will allow air to become entrapped and compressed in upper portion of vessel. Compressed air might rupture vessel, resulting in personal injury and damage to equipment.

7. Close drain.
8. Open inlet valve and allow vessel to fill slowly.
9. When air is expelled from the vessel and liquid begins to bleed from vent, close the vent cock.
10. Open outlet valve.

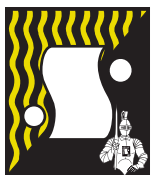
⚠ CAUTION: Do not attempt to adjust V-band clamp while filter vessel is pressurized.

11. If filter leaks, repeat shut down and start-up procedures with a new gasket and clean gasket seating surfaces. Do not overtighten V-clamp bolt.

CARTRIDGE REPLACEMENT

1. Vessel interior and all components should be examined for corrosion or other damage each time cartridges are replaced.
2. Unscrew wing nut from center post.
3. Remove compression plate to expose cartridges.
4. Remove top seat plate assembly from each cartridge.
5. Remove filter cartridges and discard. Retain spacers if cartridges are multi-stacked.
6. Inspect cartridge guides. In most cases it is not necessary to remove guides when routinely changing cartridges. Remove guides only if they appear damaged. Note: Guides are not used with extended core cartridges.
7. Inspect cartridge sump seat.
8. Refer to steps under **INSTALLATION and COVER REPLACEMENT AND START-UP on Page 1.**

⚠ CAUTION: Do not use air or gas as the operating or testing medium.



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