



SERIES 'M' METAL FILTER CHAMBERS STEEL AND STAINLESS STEEL

OPERATION AND
SERVICE GUIDE
O-1625A
DEC. 1994

MODELS	
S360-3	SS360-3
S540-3	SS540-3
S660-4	SS660-4
S1080-6	SS1080-6
S1650-6	SS1650-6
S2640-8	SS2640-8

Refer to Bulletin C-201

SAFETY PRECAUTIONS BEFORE STARTING FILTER

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to Chemical Resistance Data Chart for compatibility of materials in solution contact.
3. Note temperature and pressure limitations.
4. Operating personnel should always wear suitable protective clothing; face mask or goggles, apron and gloves.
5. All piping must be supported and aligned independently of the filter.
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 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 pump motor at disconnect switch when servicing filter.**

INSTALLATION

Carefully note flange markings INLET and OUTLET and refer to Page 2.

Legs are adjustable to level filter by threading in or out. For special installations legs may be replaced by suitable standard threaded pipe.

Install filter cartridges in vessel as described below:

Assembly No. 1 (For 10" cartridges)

1. Insert tube guide into separator seat plates with tube extracting prongs down.
2. Slide filter cartridges over tube guides.
3. In multi-deck housings, place spacers between cartridges.
4. Install compression seat plate assemblies on all cartridges.
5. Replace "O"-ring and tighten cover.

Assembly No. 2 (For 30" cartridges)

1. Insert tube guide into separator seat plate with extracting prongs down. Slide multi-length filter cartridge over tube guide.

2. **Install compression seat plate assemblies.**

3. **Replace "O"-ring and tighten cover.**

OPERATION

1. Loosen cover vent plug to bleed entrapped air.
2. Open inlet valve to slowly fill chamber, checking for "O"-ring leak.
3. Tighten vent plug when liquid appears around plug.
4. Retighten eye nuts if necessary.

As the filter cartridges remove contamination, the pressure drop across the unit will slowly rise. This can be determined by pressure gauges on the unit (provided to order) or by mounting gauges in the inlet and outlet piping.

In normal operation it is desirable to change cartridges when a rise of 15 to 20 psig (1.05 to 1.41 kg/sq. cm) above initial inlet pressure has been reached, as determined by the differential between inlet and outlet pressure gauges. In no case should 45 psig (3.16 kg/sq. cm) differential pressure be exceeded.

If no pressure gauges are available, rise in pressure will be reflected by a drop in flow if a centrifugal pump is being used. When flow drops below an acceptable point, cartridges should be changed.

SERVICING

1. **When filter cartridges are expended, close inlet and outlet valves to unit.**
2. **Open vent and body drain plug. Empty the chamber of unfiltered solution.**
3. **When unit is drained, close drain valve, unbolt and remove cover.**

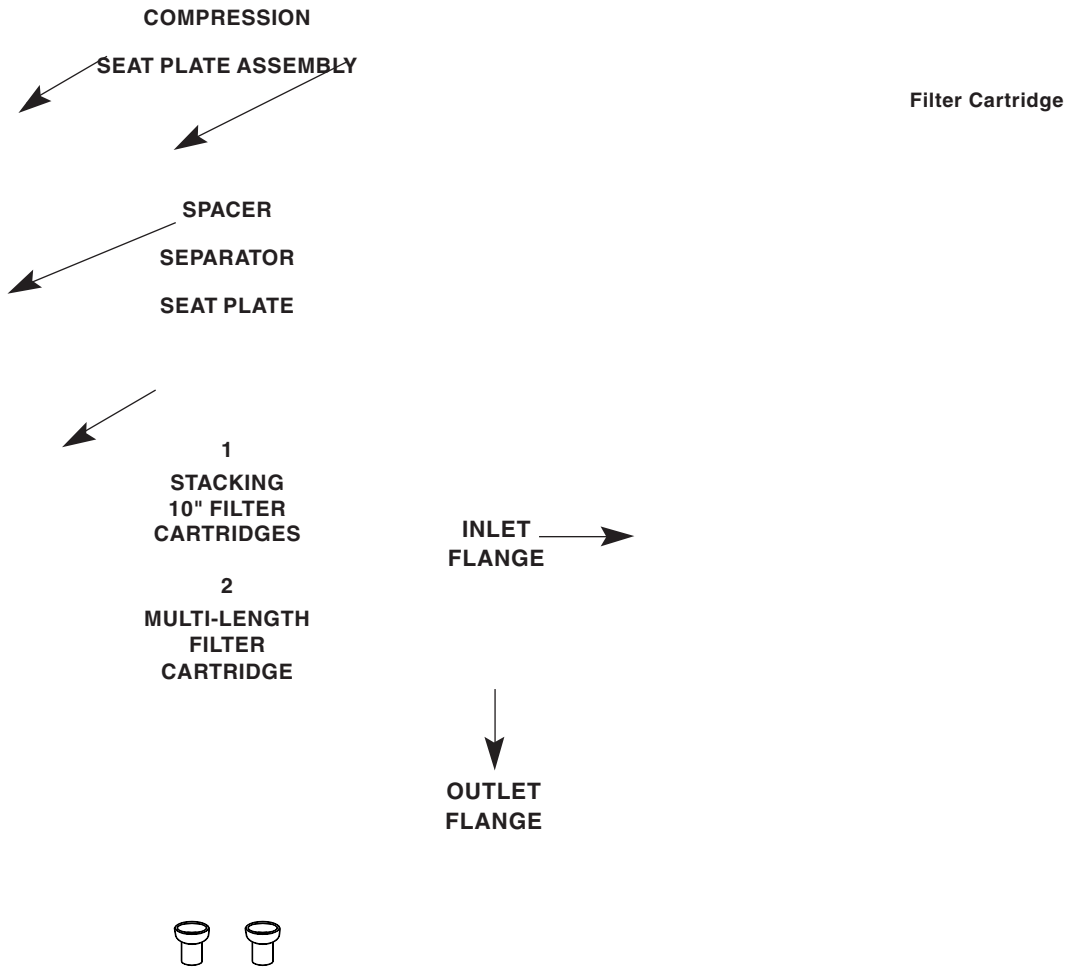
Assembly No. 1

1. **Remove compression seat plates and top layer of filter cartridges.**
2. **In multideck units, grasp tube guides and withdraw remaining cartridges and spacers.**
3. **Discard expended cartridges and clean various parts before reassembly.**
4. **Inspect, clean or replace "O"-ring if necessary.**
5. **Proceed as previously described under INSTALLATION and OPERATION.**

Assembly No. 2

1. **Remove compression seat plates and filter cartridges.**
2. **Discard expended cartridges and clean various parts before reassembly.**
3. **Inspect, clean or replace "O"-ring if necessary.**
4. **Proceed as previously described under INSTALLATION and OPERATION.**

PARTS IDENTIFICATION LIST



In ordering parts, please designate the model and serial number of your unit, and refer to part as named above.

