

# METAL FILTER CHAMBERS

Refer to Bulletin C-207



## **⚠ SAFETY PRECAUTIONS BEFORE STARTING**

1. Read Operating Instructions and instructions supplied with chemicals to be used.
2. Refer to a chemical resistance data chart for compatibility of materials with solution to be used.
3. Note temperature and pressure limitations.
4. Personnel should always wear suitable protective clothing: face mask or goggles, apron and gloves.
5. All piping must be supported and aligned independently.
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 line 4 above.
2. Flush sump thoroughly with a neutralizing solution to prevent possible harm to personnel.
3. Verify compatibility of materials as stated in item 2 of Safety Precautions above.
4. Shut off power to the unit / system at the disconnect switch.

## **INSTALLATION**

Carefully note IN and OUT connections as marked on the chamber.

Connect in the proper direction of flow. Remove lid from housing by turning eye nuts until loosened and swing them down. Lift or swing the lid until full view of the inner housing area is gained.

Check inner housing and pipe connections for foreign material and discard any items that have entered during shipping or unpacking.

Assemble filter using the type of filter cartridges best suited for your particular requirement. Insert cartridge guides into bottom seat plates with cartridge extracting prongs down. Slide filter cartridges over cartridge guides. In multi-deck housings, place spacers between cartridges. Install top seat spring

assemblies on all cartridges. Replace cover. If designed to utilize bags, make sure that the strainer baskets are pushed fully into housing grooves. If using a filter bag, seat bag fully into strainer basket to assure a leak-proof seal between bag and basket. For best results, bag should be fully extended into the basket. Close lid and alternately tighten the eye nuts until lid is fully seated onto the O-ring gasket. Housing is now ready for start-up. All necessary parts except filter cartridges are supplied with the filter.

## **OPERATION**

Open inlet valve to filter slowly, checking for gasket leak.

Loosen cover vent plug to bleed entrapped air. Tighten when liquid appears around plug.

As the filter cartridges or bags remove contamination, the pressure drop across the unit will slowly rise. This can be determined by a pressure gauge mounted upstream from the filter.

In normal operation, it is desirable to change cartridges when a rise of 20 to 25 pounds above initial inlet pressure has been reached. In no case should 35 PSI 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.

## **REMOVAL OF USED ELEMENT**

When the housing reaches your pre-determined differential pressure, stop flow to the housing and relieve housing pressure through housing drain.

Remove liquid in sump, loosen eye nuts on housing and lift or swing the lid to gain full access to the inside of the housing.

Discard the filter element(s) in accordance with any required local and federal laws.

Thoroughly clean the chamber sump, removing debris and sludge to prolong filter efficiency and useful service life.

Replace filter element(s) as described previously.

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



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