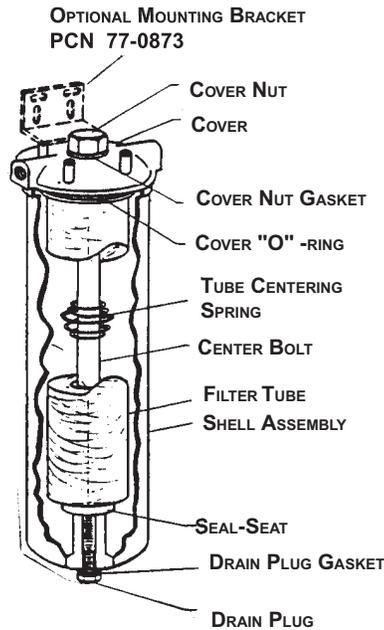




# LOW FLOW METAL FILTER CHAMBER

OPERATION AND  
SERVICE GUIDE  
O-860B  
JULY 1990

Refer to Master Price List F-800.



MODEL	PRICE CODE NUMBER *	MATERIAL	MAXIMUM PRESSURE	PIPE SIZE	NO. FILTER CARTRIDGES
S4 3/8	78-0831	Steel and	125 PSI	3/8" NPT	1
S8 3/4	78-0841	Cast Iron		3/4" "	1
S10 3/4	78-0845	EPDM "O"-ring		3/4" "	1
S20 3/4	78-0847	w/TFE gasket		3/4" "	2
S20 1	78-0848			1" "	2
B10-3/4	78-0857	Brass & EPDM	125 PSI	3/4" NPT	1
B20-3/4	78-0859			3/4" "	2
B10-1	78-0858			1" "	1
B20-1	78-0860			1" "	2
SS10-3/4	78-0865	316 Stn.Stl & EPDM	125 PSI	3/4" NPT	1
SS20-3/4	78-0867			3/4" "	2
SS10-1	78-0866			1" "	1
SS20-1	78-0868			1" "	2

## REPLACEMENT GASKETS & "O"-RINGS

ITEM	EPDM	BUNA	TFE	VITON	NEOPRENE	PLANT FIBER
Cover nut gasket	-	22-0111	22-0112	22-0113	22-0115	-
Cover "O"-ring	22-0120	22-0128	22-0129	22-0130	22-0131	-
Drain plug gasket	-	-	22-0118	-	-	22-0628

For other replacement parts include Description and Model Number when ordering.

## SAFETY PRECAUTIONS BEFORE STARTING

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to Chemical Resistance Data Chart in Serfilco Product Catalog for compatibility of materials with solution to be filtered.
3. Note pressure limitations.
4. Personnel operating pump should always wear suitable protective clothing; face mask or goggles, apron and gloves.
5. Always close valves slowly to avoid hydraulic shock.
6. 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.

## CAUTION

These units incorporate an "O"-ring seal. Cover should be bolted until metal to metal contact is made. Further tightening will stretch the bolt without improving the seal. If leakage occurs, open the unit, clean and inspect the "O"-ring. A suitable lubricant applied to the "O"-ring will facilitate the seal. Replace the "O"-ring if stretched or otherwise damaged.

## INSTALLATION

Filter is normally suspended and supported in a horizontal pipe. Mounting bosses are provided in cover. Order optional

bracket if pipe cannot support filter. Carefully note IN and OUT connections as cast in the filter head. Connect in the proper direction of flow. Install filter cartridge.

## OPERATION

Open inlet valve to filter slowly, checking for gasket leak. See CAUTION if leakage occurs. Loosen cover to bleed entrapped air. Tighten when liquid appears around cover nut. As the Filter Cartridge removes contamination, the pressure drop across the unit will slowly rise or a reduction in flow rate will be experienced. This can be determined by pressure gauges mounted up-stream and down-stream from the filter. In normal operation, it is desirable to change cartridges when a rise of 15 to 20 pounds above initial inlet pressure has been reached. In no case should 45 PSI 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

When Filter Cartridges are expended, close inlet and outlet valves to unit. Open bottom drain plug and loosen cover nut to drain unit. Unscrew cover nut supporting the shell with your hand. Remove and discard used cartridge. Clean all parts. Inspect, clean, and replace seals, if necessary. Place new Filter Cartridge over boss in shell. Raise entire shell assembly to filter head until the cartridge guide engages in the cartridge center core. Pick up center bolt thread with the cover nut. Tighten until metal to metal contact is made. Do not exceed 15 ft. lbs of torque.