

FLOW-MAX® FILTERS

Service Instructions For Multi-Cartridge Filter Housings

Prior to shipment, flow-Max® cartridge filter housings have been inspected to assure they are free from manufacturing defects. Before installation, however, please check gasket to be sure it is in place and note inlet and outlet labels for proper pipe connections.

Specifications

Construction	304L or 316L
Pressure rating	To 150 psi (10 bar). Note, 300 psi vessels are available.
Temperature rating	To 250°F (121°C). (housing only). Do not allow filter to freeze.
Gasket	Buna-N (other options available).
Initial pressure drop	Approximately 1 psi (housing only) at designed flow rate.
Maximum flow rates	See data for each individual model.
Pipe fittings	4, 5 and 7 round models; 2" NPT; 12 round, 3" flange; 22 round, 4" flange.
Cartridge types	All filter housings accept double-open-end (DOE) cartridges. Seven round models also take cartridges with 222 o-ring end caps. Cartridge adapters are available.

Filter housing installation

Filter housings are to be installed after pump. Use shut off valves before and after filter housing and on each drain connection, if desired. Pressure gauges are recommended on inlet and outlet pipe fittings to indicate pressure differential and when to replace filter cartridges.

Important: Ground filter housing to proper ground using lugs provided for safety and to minimize corrosion resulting from electrolysis. To reduce the potential for galvanic corrosion, use plastic or stainless steel pipe fittings. Do not use copper fittings on filter or fittings made from dissimilar metals, other than stainless steel.

Note: Failure to ground filter housing and use of improper pipe fittings will void manufacturer's warranty.

Initial cartridge installation

Remove lid from housing. Remove top plate. Slide cartridges onto v-posts. (10" cartridges may be stacked in less critical filtration requirements.) Replace top plate and tighten knob securely. Check gasket each time lid is replaced to make sure it is not worn or damaged. Replace lid and prepare filter for operation.

Cartridge change-out

1. Close inlet valve. Open bottom drain plug or drain valve so filter will start to drain.
2. Remove top vent plug so filter can completely drain.
3. When filter is drained, loosen cover clamp nut and remove T-bolt from retainer ring. Remove cover clamp and lid.
4. Remove top plate.
5. Remove cartridges.
6. Install new cartridges.
7. Replace top plate and tighten knob securely.
8. Replace lid making sure the edge of the lid is aligned with bottom flange on filter housing.
9. Position the T-bolt and tighten clamp nut. **Do not over tighten. Otherwise, leaks may result.**
10. Replace drain plug or close drain valve.
11. With pump on, open inlet valve slowly. Allow top vent to remain open until a steady stream of liquid comes out of vent. Replace vent plug. Check for leaks. If leaks appear, close inlet valve, relieve pressure by opening drain and repeat steps above.

Flow-Max Products

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