



SERIES 718 STEEL FILTER CHAMBERS

OPERATION AND
SERVICE GUIDE
O-1581-A
OCTOBER 2012

MODEL	PRICE CODE NO.
S1(718)-1	79-0940

Refer to Bulletin C-401
and Parts List P-3977.

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 'O'-ring materials.
3. Note temperature and pressure limitations in catalog or bulletin.
4. Personnel operating filter 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 chamber 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 OF CHAMBER

1. Note identification of INLET, OUTLET, VENT and DRAIN. Maximum operating pressure 75 PSI.
2. Using wall mounting bracket or floor mounting leg assembly install chamber in a secure position, with consideration for direction of INLET and OUTLET.
3. Complete supply and discharge piping using proper thread lubricant for a pressure tight seal.
4. Inlet, outlet, drain and vent valves may be installed for user convenience.
5. Install a 0 - 100 PSI pressure gauge assembly on inlet tee or on vent tee. It is a helpful instrument to assist in determining when filter cartridge needs replacement.

INSTALLATION OF FILTER CARTRIDGE AND START-UP

1. Loosen eye nuts and remove cover.
2. Unscrew cartridge lock nut.
3. Install one (or two) nominal 7" diameter by 18" long cartridge(s) over stand pipe, and verify that stand pipe is at center of cartridge I.D.
4. Replace lock nut and secure into position by tightening against cartridge.
5. Clean and replace cover 'O'-ring.
6. Replace cover and tighten eye nuts.
7. Slowly open INLET valve to allow solution to enter chamber. Release air via vent valve or plug in cover while slowly opening OUTLET valve. When solution appears at vent, close vent valve or replace vent plug.
8. Open OUTLET valve fully.
9. Note and record inlet pressure using clean cartridge and full flow of solution.

10. When flow through filter chamber reaches the acceptable minimum, record gauge pressure and replace filter cartridge.

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

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

4. Open drain.
5. Open vent to allow vessel to drain properly.
6. Loosen eye nuts and remove cover.

CARTRIDGE REPLACEMENT

1. Vessel interior and all components should be examined for corrosion or other damage each time cartridge is replaced.
2. Unscrew cartridge lock nut.
3. Remove filter cartridge and discard.
4. Replace new cartridge and follow instructions for "INSTALLATION OF FILTER CARTRIDGE AND START-UP"

COVER REPLACEMENT AND START-UP PROCEDURES

1. Clean and inspect 'O'-ring seating surfaces.
2. Clean and inspect 'O'-ring for damage. Replace if necessary.
3. Reposition cover to chamber body and tighten nuts.
4. 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.

6. Close drain.
7. Open inlet valve and allow vessel to fill slowly.

8. When air is expelled from the vessel and liquid begins to bleed from vent, close the vent cock.
9. Open outlet valve.
10. If filter leaks, repeat shut down and start-up procedures with a new 'O'-ring and clean 'O'-ring

REPLACEMENT FILTER CARTRIDGES

Refer to filter model number and original order when requesting replacement cartridges, parts or information.

REPLACEMENT FILTER MEDIA

DESCRIPTION	MICRON RETENTION	PRICE CODE NUMBER	DESCRIPTION	MICRON RETENTION	PRICE CODE NUMBER
7" x 18" pleated paper cartridges (see Bulletin M-206)	1	PL718-1	6¾" x 18" spun-wound cotton cartridges on stainless steel core	10	C718
	5	PL718-5			
	10	PL718-10			
	20	PL718-20			
	30	PL718-30			
Fuller's Earth cartridges 7" x 19¼" (cotton bag) 6¾" x 18¼" (cotton bag) 6¾" x 18" (metal canister)		F718 F718-4 F718-C			



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