

# SERIES GPO, GNO & GSO MOLDED PLASTIC FILTER CHAMBERS

OPERATION AND  
SERVICE GUIDE  
O-2525E  
MARCH 2001

Refer to Bulletin C-101.

MODELS	PRICE CODE NUMBER	CONN. NPT	MAX. PRESSURE @ MAX TEMP.				WOUND & SPUN DEPTH CARTS.	CARBON & PLEATED CARTS.
			PRESSURE		TEMPERATURE			
			PSI	BAR	°F	°C		
GPO 10 - 3/4	78-0930A	3/4"	125	8.6	125	52	9-3/4" or 10"	9-3/4"
GPO 20 - 3/4	78-0931A	3/4"	125	8.6	125	52	19-3/4" or 20"	19-3/4" or 20"
GPO 10 - 1	78-1157A	1"	100	6.9	100	38	9-3/4" or 10"	9-3/4"
GNO 10 - 3/4	78-0932	3/4"	125	8.6	250	121	9-3/4" or 10"	9-3/4"
GSO 10 - 3/4	78-0929A	3/4"	125	8.6	125	52	9-3/4" or 10"	9-3/4"

## SAFETY PRECAUTIONS BEFORE STARTING

1. Read operating instructions thoroughly.
2. Refer to a chemical resistance data chart for compatibility of chamber with solution to be used.
3. Note temperature and pressure limitations.
4. Operating personnel should always wear suitable protective clothing: face mask and goggles, apron and gloves.
5. All piping must be supported and aligned independent of the chamber.
6. Always close valves slowly to avoid hydraulic shock.
7. Ensure that all fittings and connections are properly tightened. Refer to General Precautions No. 5 on page 2.

## IMPORTANT

Before installing new chamber, place new cartridge in chamber and reseal cover to shell. Filter cartridge should be a snug fit and not loose when assembly is shaken. Refer to chart above for cartridge style and length for each chamber.

## TO INSTALL CHAMBER AND FILTER CARTRIDGE

Inlet and outlet are identified on top of cap. Install in proper direction of flow. Insert filter carefully in sump (lower housing) and screw sump onto cap, hand tighten. Close drain plug. Open the inlet and outlet valves one quarter turn and depress the pressure release button. When all air has escaped from the system, fully open both valves.

## VALVE-IN-COVER

When handle is turned 180° so that the "off" arrow is over the red vent button, the plug valve built into the cover isolates the chamber from inlet flow and back flow replacing the cartridge. Vent button is also automatically depressed.



VALVE-IN-COVER

## IMPORTANT

When the water flow at the tap is noticeably reduced, it is time to change the cartridge. A carbon cartridge should also be changed when bad taste or odor comes back.

## TO CHANGE FILTER CARTRIDGE

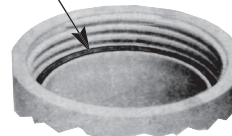
Turn off both the inlet and outlet valves and depress pressure release button to relieve pressure in the housing. Open bottom plug and drain into collection container while depressing pressure relief button. Unscrew housing cap, discard used cartridge. Install new cartridge per instructions

## NOTE

'O'-ring seal\* in groove of lower housing

## IMPORTANT

When opening the filter housing to install or change the cartridge (element) it is common for the "O"-ring seal\* to lift out of the groove and, at times, it may even stick to the cap.



\* 'O'-ring seal is a doughnut shaped rubber gasket as shown above in groove at bottom of threads.

## SERVICING

The 'O'-ring seal which fits into the groove in the sump (lower housing) provides the water tight seal between the cap and the sump when the filter is in operation. It is important that the 'O'-ring be properly seated in the groove in the lower housing each time the unit is reassembled or water leak could occur through the seal.

To easily reinstall the 'O'-ring into the groove, simply wipe the 'O'-ring clean with a rag, then lubricate the 'O'-ring with a very light coating of white petroleum jelly (Vaseline, for example), place in the groove and with two fingers wipe the 'O'-ring down into the groove. The 'O'-ring is a full fit in the groove and care must be taken to see that the wiping down operation assures a properly seated 'O'-ring.

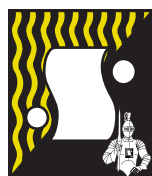
Do not wipe the 'O'-ring clean of lubricant after it has been properly seated in the groove because the lubricant prevents "crawling" of the 'O'-ring during the tightening of the cap. An "O"-ring which is not properly lubricated could cause leakage. Screw the housing on to the cap and hand tighten.

### REPLACEMENT PARTS

PART	MATERIAL	3/4" MODELS	1" MODELS
Cover 'O'-ring	BUNA-N	22-0540	22-0822
	VITON®	22-0585	–
	EPDM	22-0586	–
Drain plug & vent plug with 'O'-ring	EPDM	88-1282A	
	VITON	88-1282B	
Vent button 'O'-ring	EPDM	22-0600	
	VITON	22-0691	

### GENERAL PRECAUTIONS

1. GPO and GSO chambers must be installed on cold water lines only.
2. GSO clear housing may crack or craze in time to cause failure and leakage if exposed to organic solvents, such as those found in aerosol sprays for cleaning products and insecticides.
3. Do not exceed maximum temperature and pressure ratings.
4. **⚠ WARNING:** The filter must be protected against freezing. Failure to do so will result in cracking of the filter and water leakage. Drain chamber and piping if freezing is anticipated.
5. Do not use wicking or sealer for fitting connections into the cap of the filter. Teflon tape is recommended.
6. Do not install where unit will be exposed to direct sunlight.
7. Allow a minimum of 1-1/2" of clearance under the filter to facilitate changing the cartridge.
8. Make certain that the installation complies with all state and local laws and regulations.



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