

# BB Large Diameter Series Filtration Systems



**Please read this manual carefully before  
the installing the system.**



# Cartridge System Installation

Temperature Range:40–100F

Pressure Range:30–100PSI

CAUTION: Filter must be protected against freezing, which can cause cracking of the filter and water leakage.

CAUTION: The rubber o-ring allows the water-tight seal between the cap and the bottom of the housing. It is important that the o-ring is properly seated in the groove below the thread so the housing, or a water leak could occur.

CAUTION: To prevent costly repairs or possible water damage the sump of plastic housings must be replaced every five years for clear, and ten years for opaque. If sump is older than recommended, please replace immediately. Date the sump for reference and indicate replacement date.

- Install on cold water line only.
- Do not install where system will be exposed to direct sunlight.
- Make certain that installation complies with all state and local laws and regulations.
- For prolonged periods of non-use (such as during vacation), it is recommended that the system be flushed thoroughly. Let water run for 5–6 minutes before using.
- The filter cartridge has a limited service life. A decrease in water flow indicates that the cartridge should be replaced

# Filter Housing Installation Instructions

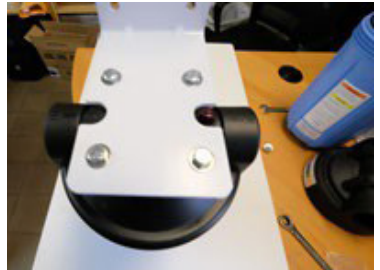
1. Install the Big Blue filter housing in the desired location in the water treatment system. The cap is marked "IN" and "OUT" on the top of the housing.



2. Mount the housing to the bracket using the supplied self-tapping screws, orienting the housing to match the applications desired flow direction. If you need to position the flow direction to right or left, the bracket will need to be turned 180 degrees.



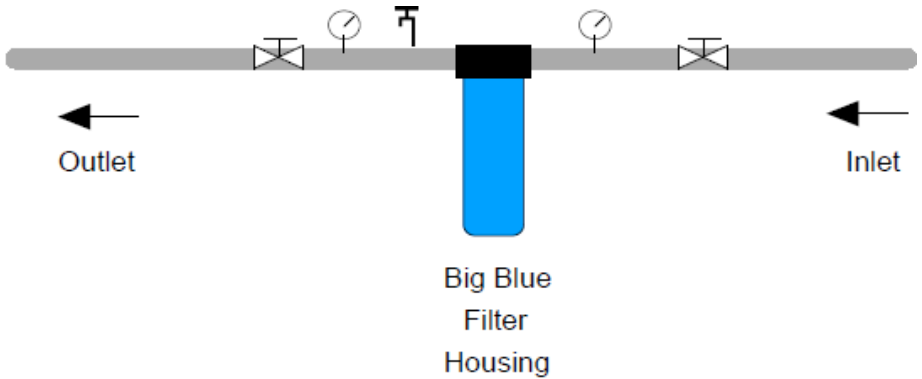
3. Next mount the filter housing to the wall using appropriate fasteners for your wall material. Mount on a solid surface or secure a board or piece of plywood on wall stud. Filter housing will be heavy when full of water.



4. The inlet plumbing will be attached to the "IN" port on the filter housing. The outlet plumbing from the Big Blue filter will be attached to the "OUT" port.



5. OPTIONAL - Install a gate or ball valve before the big blue housing and a hose bib and ball after the housing. This will allow you to easily shutoff water before and after, and depressurize using a hose bib which is faster and easier to use than the Red Button pressure relief. Install pressure gauges before and after to see pressure drop if desired.



#### Key



Gate or ball valve



Pressure gauge



Hose bib

Notes: follow inlet and outlet arrows on filter for proper installation. Follow all local plumbing codes.



Water piping

6. Install pipe fitting by wrapping the threads with 2-3 wraps of Teflon tape, followed by a thin coating of Teflon joint compound (both commonly available at Home Depot, Loews or any other hardware stores). Tighten snugly but do not over tighten. Do not use more than 3 wraps of Teflon tape. The combination of some Teflon tape with joint compound works best for leak-free installation.



7. Now install the filter cartridge in the Big Blue housing by removing the sump from the housing.



8. There is a notch in the bottom of the sump that will center the filter in the housing. Unwrap the filter cartridge from any wrapping and install it in the sump. If you are using a carbon filter or specialty filter, be sure the rubber washer seals are in place when you install the filter cartridge.

9. Coat the O-ring and threads on the sump with food grade silicone grease and install the O-ring in the filter sump.



10. Applying lubrication to the sump threads will aid in removing the sump when the filter needs to be changed.
11. Now install the sump in the filter cap and turn it clock-wise to tighten the filter.
12. Once it is hand tight, use the supplied wrench to tighten it an additional 1/4-1/2 turn. Repeat this step for each filter sump in the system.
13. Turn water back on and then open up hose bib after filter or use red button pressure relief to remove air from filter housing.

# How To Change The Filter Cartridge

1. Shutoff the water supply.
2. Open a faucet or spigot closest to the filter housing and allow all the water to empty from the plumbing system.
3. Push the red button on the top of the filter housing to release the remaining water pressure.
4. Use the supplied filter wrench to remove the sump by turning it counterclockwise.
5. **WARNING!** If the pressure is not released, the filter sump will be very difficult to get loose. It is imperative that the water pressure is released prior to attempting to remove the filter sump.
6. Remove the sump by spinning it counterclockwise until the sump is completely removed.
7. Remove the old filter and discard.
8. Install the new filter in the sump.
9. Lubricate the o-ring and filter housing bottom threads with food grade silicone grease.
10. Install the filter sump in the filter cap by turning it clockwise until it is hand tight.
11. **NOTE:** The housing should spin on and tighten easily. If not, add more lubrication to the sump threads. This will aid with removing the sump when the filter needs to be replaced again.
12. Once the filter sump is hand tight, tighten it an additional 1/4-1/2 turn with the supplied filter wrench.
13. Turn on the water supply and open a spigot downstream of the Big Blue filter to release the air.
14. Once the air has been released, push the red button on top of the filter housing to release any additional air in the filter housing.
15. Check the housing for leaks and repair as necessary.

## **Cleaning/Installing the Pressure relief assembly**

1. Screw with the rubber seal
2. Place in to relief port with the threads facing out of the unit
3. Place Spring over the bolt at the top of the housing
4. Thread Red cap on to bolt.
5. Press button down to verify it releases pressure