

WATERSTONE SMF SYSTEM 32101 OWNER'S MANUAL



THANK YOU FOR YOUR PARTNERSHIP

We are honored that you chose to purchase our Waterstone® water filtration systems to help provide safe, clean water.

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The Waterstone SMF Series systems are carefully designed to reduce sediment, dirt, foul-odors and improve taste. Some models can also help to prevent scaling and corrosion in your equipment. Please follow these instructions with care.

1. INSTALLATION GUIDE

Things to know prior to installation:

- The Waterstone QCM water treatment systems are not to be used where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after unit.
- **DO NOT** install where line pressure is outside of 40-100 psi, or where temperature is lower than 40°F or exceeds 100°F.
- Installation **MUST** comply with existing state or local plumbing codes.
- The unit(s) must be protected against freezing. Failure to do so may result in damage or water leakage.
- Water filtration systems are designed for cold water line use only. Passing hot water through these systems may cause significant damage to the filter and housing and void the warranty.
- Filter(s) must always be in contact with water.
- Recommended pH range: 6.0 to 8.5.
- Recommended inlet pressure 60 psi.
- Tools needed for installation: drill, screwdriver, wall anchors, tube cutters. If hard plumbing: lead free solder, heating device, and flux.

Unpacking product:

- Remove filter system from packaging and inspect for potential shipping damage. Notify shipping company immediately if damage has occurred.

FLOW DIRECTION: Be sure to note the direction of flow as needed for your installation. As shipped from the factory, flow is from left to right. If reverse-flow is needed, refer to the section on how to reverse the flow.

Figure A

Positioning water filtration system and water connection:

Water filter should be mounted upright on a vertical surface without obstructions.

- Locate an installation location that is near the equipment it will be supplying with water. Ensure the location is clear from possible damage from day-to-day operations.
- Ensure there is a minimum of 4 inches of clearance below filter cartridge to enable filter change-outs as needed.
- Turn off water supply and ensure faucets are turned on or open. This is to remove pressure from the system.
- Cut inlet and outlet water supply lines.
NOTE: If hard copper plumbing is present, use only lead-free solder and protect filter housing from heat. Do not solder within 12" of plastic parts.
- Remove existing filtration system if present. Terminate both ends of plumbing with appropriate fittings.
- Insert the appropriate plumbing connection fittings into the filter head. It is recommended to use $\frac{3}{8}$ " fittings or larger to allow for optimal performance.
- Do not over tighten fittings into plastic parts! Warranty will be voided if parts are cracked and/or broken due to misuse and/or over tightening! Connect water filter inlet to **COLD WATER SUPPLY ONLY**. Use approved flexible beverage tubing where possible with correct sized tube clamps. If hard plumbing is necessary, then use only lead-free solder and protect filter housing from excessive heat. Do not solder within 12" of plastic parts.

From outlet ② of water filter use no less than $\frac{1}{4}$ " ID tubing to all specified equipment. Teeing the tubing should be done appropriately, for example $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{2}$ ".

Mounting

1. Measure mounting holes ① of filter system and mark hole locations on wall.
 - a. Ensure marks are level. Drill holes for anchors, if required. Anchors must be properly sized to allow for the wet weight of the filter system.
 - b. Secure backplate to the wall.

Connect Plumbing

Connect supply line to filter system inlet and connect outlet fitting to existing plumbing.

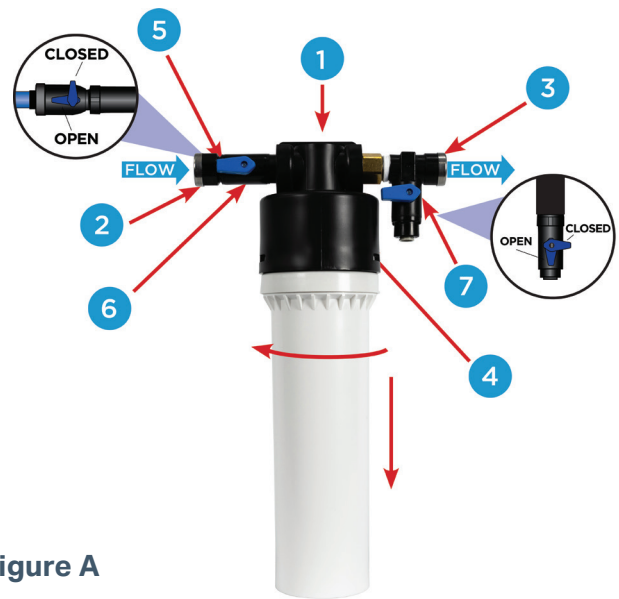


Figure A

Install Cartridge

1. Generously lubricate outer O-ring using food grade lubrication provided.
2. Align cartridge tabs ④ as indicated on head and insert cartridge. Push upwards and twist to lock into place.

Initializing Water Filter

1. Turn on water at the source.
2. Flush the system by flowing water through the flush valve ⑦ to a drain for 5 minutes.
3. Purge all air from the plumbing system by opening a water valve at the point of use for approximately 1 minute, or until no air found in lines and water flowing freely.
4. System is now operational. Close faucet.

Reverse Flow:

As shipped from the factory, flow is from left to right. To reverse the flow, follow these steps:

1. Unscrew 2 screws located on top of the head.
2. Rotate head upwards until it disengages from bracket.
3. Spin head 180 degrees.
4. Reengage head into bracket and rotate downwards (label will now be on the back of the head, facing the wall).
5. Reinsert the 2 screws on top of the head.

Cartridge Change Schedule

1. When the line pressure downstream of the filter housing drops to 30 psi or below during system operation, the cartridge(s) needs to be replaced. Occasional dips below 30 psi and back are normal.
2. See filter head for replacement cartridge ordering information.

2. CARTRIDGE CHANGE-OUT INSTRUCTIONS

- Check your water, and make sure your system is operating properly. If you choose to install your new cartridge yourself, follow the instructions carefully. Never attempt to remove the system's cartridge without first depressurizing the system.

Min / Max Pressure : 40-100 psi

Min / Max Temperature: 40-100 °F

Inlet / Outlet Size: ½" NPT

- Shut off Inlet valve. **5 Figure A**
- Open faucet or point of entry to drain the system and relieve pressure.
- Grasp filter cartridge and rotate counterclockwise until rotation stops.
- Pull downward about 2" to remove the filter cartridge.
- From the new cartridge, remove and discard the sanitary cap.
- Be sure to apply sufficient lubrication to the O-rings. **Figure B**
- Align cartridge tabs as indicated on head and insert cartridge.
- Push cartridge upwards and turn clockwise until a definite stop is felt and the cartridge is sealed.
- Turn on water supply.
- Open faucet to flush newly installed filter cartridge for 5 minutes.
- Use permanent marker to record the correct installation date on the cartridge label.

3. TROUBLESHOOTING

Before beginning any troubleshooting:

1. Turn off Inlet valve. **5 Figure A.**
2. Relieve pressure by opening any point of entry or faucet. Close point of entry or faucet.

Issue: System leaking at threaded connection points:

It is normal to experience leaks of a few drops of water at the various O-ring sealed junction points at initial start-up only. This will subside after a few minutes as soon as the O-rings are pressurized and seat properly. For any leaks lasting longer than this, or those that are more than a few drops, please see the troubleshooting points below. Note: The pressure needs to be relieved by opening the flush valve before attempting to fix any leakage problems.

Issue: Leak between threaded connections:

This type of leak should be repaired by removing the fitting and applying additional thread sealant compound. Do not attempt to repair by tightening the fitting more. Over-tightening fittings into plastic parts may cause the plastic to crack.

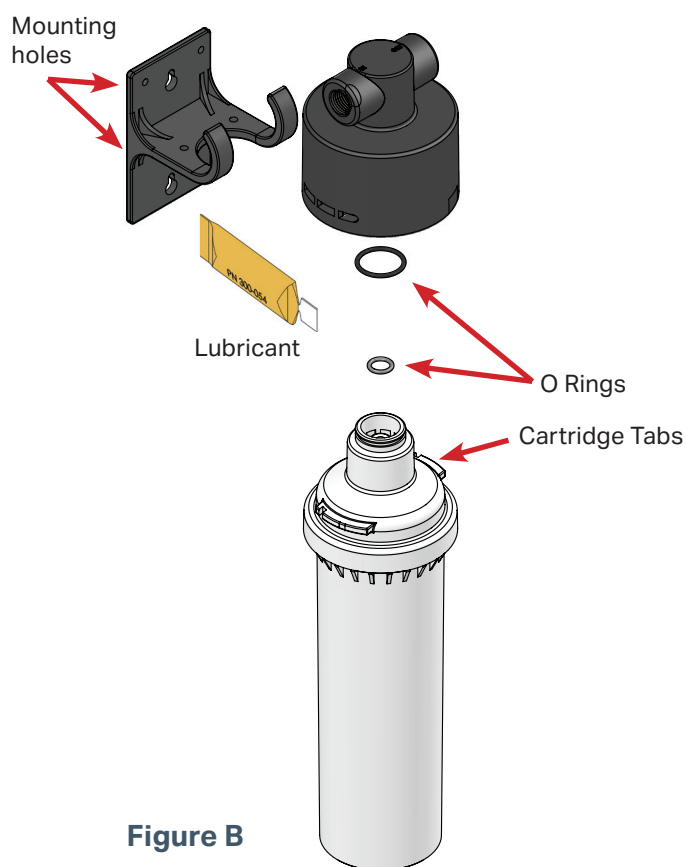


Figure B