

BACKWASH PREFILTER INSTRUCTIONS

TOOLS:

- Plumbing fittings (not provided)
- Tape measure
- Pipe Wrenches
- Adjustable Wrenches
- Screwdriver (Flat blade and Phillips)
- Level
- Pipe dope, thread seal tape, or thread sealing cord
- Two gallon bucket
- Drill with bits
- Fresh 6% unscented liquid chlorine bleach

PARTS INCLUDED:

1 - Backwashing Prefilter (P/N 7000832) Includes Housing with media, Backwash Control, and Bypass Valve Assembly

1 - Installation Instructions (P/N 1011223)

CAUTION

This equipment must be installed to comply with the basic plumbing code of the building officials and code administrators, INC. (BOCA) and the food service sanitation manual of the food and drug administration (FDA).

CAUTION

Water pressure must not exceed 120 psig. To reduce water pressure, install a water pressure regulator and set the water pressure to below 120 psig.

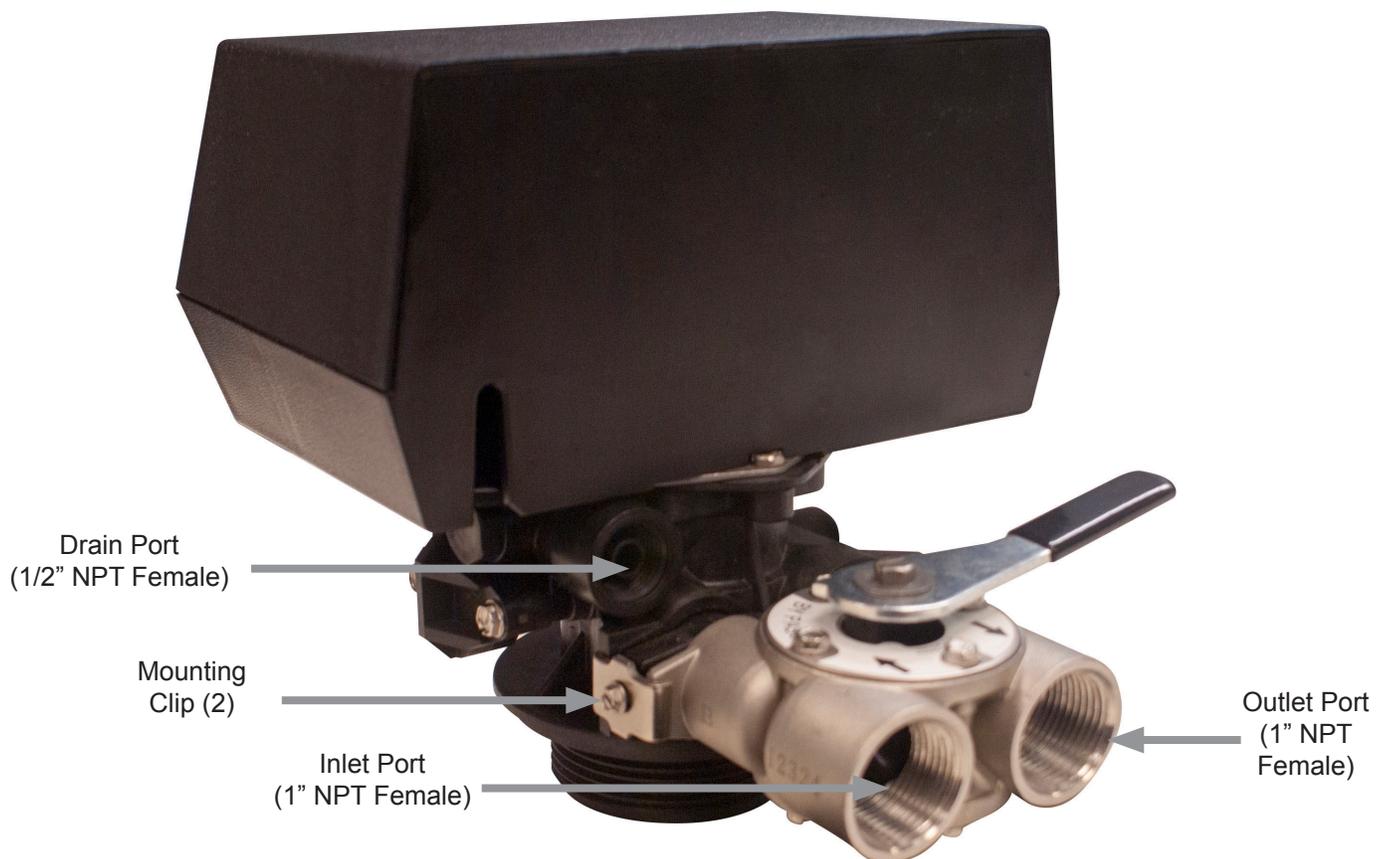


Figure 1. Backwash Prefilter

BACKWASH PREFILTER INSTRUCTIONS

General

If you experience any problems with these instructions, or if any parts are damaged or missing, contact the factory technical service department at 630-784-1000 or toll free in the U.S. at 877-392-7836.

The Backwashing Prefilter improves the quality of the water by addressing high particulate and turbidity issues. The Backwashing Prefilter should be installed upstream of fine filtration systems or other water using equipment. The Backwashing Prefilter will not affect taste or carbonation and can be installed on lines going to ice and post mix.

Equipment Setup

When installing the system, follow these guidelines:

- Do not install above electrical equipment.
- Locate close to a clean working drain.
- An uninterrupted alternating current (AC) supply is required. Make sure the supply voltage is compatible with the unit before installation. Locate close to a non-switched outlet.
- Allow access to the bypass valve.

CAUTION

Do not use this system with water that is micro-biologically unsafe or of unknown quality without adequate disinfection installed before or after the system

Plumbing

NOTE: This system is designed to be used on tap water not to exceed 110°F (43°C) or 120 psig (828 kpa). The kit must be connected to the cold water line. Do not connect the kit to the hot water line.

The plumbing leading to the Backwashing Prefilter must be flushed clear of all debris before connecting to the Backwashing Prefilter inlet. Hold a bucket at the inlet water line and slowly open the inlet water valve. Allow the pipe to flush until all debris is removed. Existing plumbing should be free from lime and iron buildup. Replace piping that has heavy lime and/or iron buildup.

The Backwashing Prefilter has the following connections:

- Inlet: 1" NPT female
- Outlet: 1" NPT female
- Drain: ½" NPT female

NOTE: Refer to the directional arrows on both the backwash control and bypass valve to determine the Inlet and Outlet.

When making a plumbing connection to the system, use a back-up wrench on the supporting plumbing. Always use a quality, approved pipe sealant or thread seal tape on the pipe threads. Be careful not to get the pipe sealant inside the pipe when making connections.

Do not over tighten the connections. The use of plastic fittings will reduce the possibility of cracking the bypass valve due to over tightening.

If soldered plumbing is used, do not apply heat to, or near, the bypass valve. The use of union (o-ring seal) connections is highly recommended for ease of installation and future servicing.

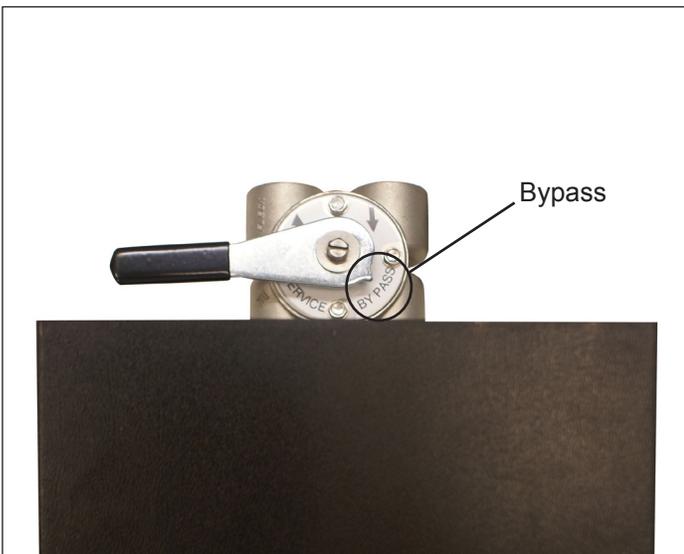


Figure 2. Bypass

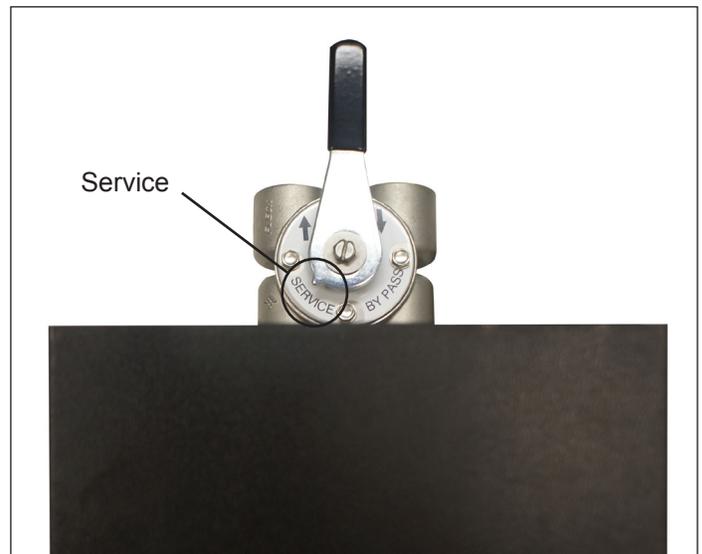


Figure 3. Service

BACKWASH PREFILTER INSTRUCTIONS

Locating the System

Before installing the Backwashing Prefilter, please consider the following:

- The system must be mounted with sufficient access to the Backwashing Prefilter Bypass Valve.
- The system must be mounted on a level floor or other firm base, capable of supporting 200 lbs or more of weight.
- The bypass valve supplied with the system can only be mounted with the valve handle up.
- The Backwash Control comes with mounting clips and screws (already attached) for attaching the bypass valve to the control. Please note the locations of the directional arrows on the bypass valve.
- The Backwashing Prefilter must be installed up-stream of all equipment using water.

Attaching the Bypass Valve to the Control

1. Loosen the two screws on either side of the backwash control to allow the mounting clips to separate.
2. Position the bypass valve (with the valve handle up) at the water connection o-rings on the control and press onto the o-rings. Make sure the bypass valve is fully seated on both o-rings.
3. Position the mounting clips over the flanges on either side of the bypass valve and tighten the screws. When tightened, the mounting clips will grab and hold the bypass valve to the control body.

Attaching The Control To The Media Tank

1. Make sure the center distributor tube (already installed in the tank with the media) is centered at the top of the tank.
2. Position the control with bypass valve over the top of the media tank and in line with the center distributor tube.
3. Screw the control onto the media tank, being careful not to cross-thread the control and tank. Tighten the control until it stops. The control will come to a hard stop at the end of the thread. Do not over tighten the control threads.

NOTE: Do not overtighten the control

Attaching To The Bypass Valve Inlet And Outlet Connections

The inlet and outlet connections are female 1" NPT. Use adaptors and connectors with a pipe thread sealant that is drinking water-approved.

Attaching To The Control Drain Connection

The drain connection is female ½" NPT. Use a (minimum) ½" pipe size for the drain. If the drain line length exceeds 20 feet, use a ¾" pipe size for the drain. Make sure the drain line is as short as possible and slopes downwards without any kinks or loops.

Rinsing the backwashing prefilter

The newly installed Backwashing Prefilter must be rinsed before the system can be put into operation.

Note: Direct the system outlet to a drain during this process. Do not use the water resulting from the rinsing process.

1. Place the bypass valve in BYPASS by turning the valve handle to indicate BYPASS. The handle will be across the valve body, not in line with the inlet and outlet plumbing connections. See Figure 2.
2. Direct water from the outlet to a drain.
3. Turn on water to the system. Allow water to flow for a few minutes to flush the lines.
4. Place the bypass valve in SERVICE by turning the valve handle to indicate SERVICE. The handle will be in line with the inlet and outlet plumbing connections, not across the valve body. See Figure 3.
5. Set the control valve to the IN SERVICE position and allow water to flow for a few minutes through the Backwashing Prefilter to flush out trapped air. Check for leaks at all connections.
6. When the air is purged from the tank, turn off water to the system. Allow the next-Sand to soak for at least 30 minutes.
7. Turn on the water to the system and set the control valve to the BACKWASH position.
8. Allow the filter to backwash for 20 to 30 minutes, until the water is clear and free of particles. This is backwash #1.
9. Set the control valve to the PAUSE position and allow the filter to settle for 10 to 15 minutes. Do not set the control valve to the RAPID RINSE setting yet.
10. Set the control valve to the BACKWASH position and allow the filter to backwash again for 15 to 20 minutes. This is backwash #2.
11. Set the control valve to the RAPID RINSE position and allow the filter to rinse (down flow) for 5 to 8 minutes.
12. Set the control valve to the IN SERVICE position, and redirect the water from the outlet to service.
13. Plug the power cord into an approved power source. The filter is now ready for service.
14. Refer to the included backwash control Service Manual for setting the timer.

BACKWASH PREFILTER INSTRUCTIONS

Frequency Of Backwashing

The frequency of backwashing will be determined by the amount of particulate material in the water, and the amount of water used. For new installations, it is recommended that the Backwashing Prefilter be set to backwash every day to allow for continual protection of filtration equipment.

Sanitizing The System And Lines

For new installations, it is recommended that the plumbing be sanitized to eliminate possible contamination that may have occurred during the installation process.

Liquid chlorine bleach (regular bleach, unscented 6% sodium hypo-chlorite) can be used to sanitize the plumbing. The amount of bleach needed depends on the amount of plumbing downstream of the Backwashing Prefilter. Generally 10 drops (one-half ml) of bleach is sufficient to sanitize the associated plumbing.

1. Direct the water line from the outlet of the Backwashing Prefilter to a drain.
2. Pour the liquid chlorine bleach into the plumbing leading to the Backwashing Prefilter.
3. Reconnect the incoming plumbing to the Backwashing Prefilter

CAUTION

Make sure to follow any handling or safety instructions supplied with the bleach.
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4. Slowly turn on the water supply and pressurize the system. Allow water to flow out of the Backwashing Prefilter until the smell of bleach is present.
5. Turn off the water supply and let the system stand without water flow for at least 15 minutes to allow the bleach to sanitize the pipes.
6. After 15 minutes without water flow, turn on the water supply and flush until the presence of bleach is gone.
7. The system is ready for service.

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Troubleshooting

PROBLEM	CAUSE	CORRECTION
Filter fails to backwash.	Electrical Service to unit has been interrupted.	Assure Permanent Electrical Service (Check Fuse, Plug, Pull chain, or Switch).
	Timer is Defective.	Replace Timer
	Power Failure	Reset time of Day.
Filter "bleeds" iron.	Bypass Valve is open.	Close Bypass Valve.
	Excessive Water Usage.	Reduce days between backwashing (see timer instructions). Make sure that there is not a leaking valve in the toilet bowl or sinks.
	Hot water tank rusty.	Repeated flushings of the hot water tank is required.
	Leak at distributor tube.	Make sure distributor tube is not cracked. Check O-ring and tube pilot.
	Defective or stripped filter medium bed.	Replace bed.
	Inadequate backwash flow rate.	Make sure filter has correct drain flow control. Be sure flow control is not clogged or drain line restricted. Be sure water pressure has not dropped. Increase backwash flow rate according to specifications for your unit. See your dealer for recommendations.
Loss of water pressure.	Iron or turbidity buildup in water filter.	Reduce days between backwashing so filter backwashes more often. Note: Make sure filter is sized large enough to handle water usage.
	Inlet of control plugged due to foreign material broken loose from pipes by resent work done on plumbing system.	Remove piston and clean control.
Loss of filter medium through drain line.	Broken or missing top screen.	Replace top screen. Must have .030 fl wide slots.
Drain flows continuously.	Foreign material in control.	Remove piston assembly and inspect bore, remove foreign material and check control in various cycle position.
	Internal control leak.	Replace seals and/or piston assembly.
	Control Valve jammed in rinse or backwash.	Replace piston and seals and spacers (and drive motor if necessary).

LIMITED WARRANTY

Equipment manufactured by A.J. Antunes & Co. has been constructed of the finest materials available and manufactured to high quality standards. These units are warranted to be free from defects in materials and workmanship for a period of one year from date of purchase under normal use and service and when installed in accordance with manufacturer's recommendations*. The ultra-filtration membrane cartridge is warranted under the same terms and conditions on a prorated basis for 24 months from date of purchase.

*To ensure continued proper operation of the unit, follow the maintenance procedure outlined in the owner's manual.

1. This warranty does not cover failures due to improper system installation, defects caused by improper storage or handling prior to placing of the equipment into service. This warranty does not include overtime charges or work done by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the equipment.
2. A.J. Antunes & Co. Reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment because of factors beyond our control and government regulations. Changes to update equipment do not constitute a warranty charge.
3. If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's documentation. Damage should be reported to the carrier. This damage is not covered under this warranty.
4. This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including any implied warranty or merchantability or fitness for a particular purpose, each of which is hereby expressly disclaimed. The remedies described above are exclusive and in no event shall A.J. Antunes & Co. be liable for special consequential or incidental damages for the breach or delay in performance of this warranty.

Prices and specifications are subject to change without notice.



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We exist to make our customers successful.

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