

Advanced Water Products

Installation, Operation and Maintenance

Owner's Manual



AWP-SE1 & AWP-SE2 Series *Water Conditioners*

Assembled in Canada by:

VIQUA™

A TROJAN TECHNOLOGIES COMPANY

425 Clair Road West, Guelph, ON N1L 1R1 Canada
t. 519 763 1032 t.f. 1 800 265 7246 f. 519 763 5069
e. info@viqua.com i. www.viqua.com



EPA# 57987-CN-001
January 2010
P/N 520128

Table of Contents:

Pre-installation Instructions for Dealers	1
Bypass Valve	1-2
Installation	3-4
Programming Procedures	5-6
Operating Displays and Instructions	6-8
Start-up Instructions	8-9
Water Conditioner Flow Diagrams	10-11
Troubleshooting Guide	12-13
Warranty	13
Replacement Parts	14-20
Installation Fitting Assemblies	21-22
Specifications	23
Quick Reference Guide	24

YOUR WATER TEST

Hardness	_____	gpg
Iron	_____	ppm
pH	_____	number
*Nitrates	_____	ppm
Manganese	_____	ppm
Sulphur	_____	yes/no
Total Dissolved Solids (TDS)	_____	

*Over 10 ppm (expressed as Nitrogen) may be harmful for human consumption. AWP water conditioners do not remove nitrates or coliform bacteria, this requires specialized equipment.

Your Advanced Water Products Sanitizer series water conditioners are precision built high quality products. These units will deliver conditioned water for many years to come, when installed and operated properly. Please study this manual carefully and understand the cautions and notes before installing. This manual should be kept for future reference. If you have any questions regarding your water conditioner, contact your local dealer or VIQUA at the following:

VIQUA - A Trojan Technologies Company
425 Clair Road West, Guelph, ON N1L 1R1 Canada
t. 519 763 1032 t.f. 1 800 265 7246 f. 519 763 5069
e. info@viqua.com i. www.viqua.com

Pre-installation Instructions for Dealers:

The manufacturer has preset the water treatment unit's sequence of cycles, cycle times, salt dose, exchange capacity and salt dose refill time.

The dealer should read this page and guide the installer regarding hardness, day override, and time of regeneration, before installation:

For the installer, the following must be used:

- Program Installer Settings ... Hardness, Day Override (preset to 6 days), and Time of Regeneration (preset to 2 a.m., see Operating Displays and Instructions for more details)
- Read Normal Operating Displays
- Set Time of Day
- Read Power Loss & Error Display

For the homeowner, please read operating displays and instructions.

SANITIZER WATER CONDITIONERS:

During operation, the normal user display is **time of day** and **gallons per minute**.

Flow Rate, Capacity Remaining and **Days to a Regeneration** are optional displays but are not normally used. Each of these can be viewed by pressing **NEXT** to scroll through them. When stepping through any programming, if there aren't any buttons are pressed within 5 minutes, the display returns to a normal user display. Any changes made prior to the 5 minute time out are incorporated.

To quickly exit any Programming, Installer Settings, etc., press **SET CLOCK**. Any changes made prior to the exit are incorporated. If desired, two regenerations within 24 hours are possible with a return to the preset program. To do a double regeneration:

1. Press the **REGEN** button once. **"REGEN TODAY"** will flash on the display.
2. Press and hold the **REGEN** button for three seconds until a regeneration begins

Once the valve has completed the immediate regeneration, the valve will regenerate one more time at the preset

Bypass Valve:

The bypass valve is typically used to isolate the control valve from the plumbing system's water pressure in order to perform control valve repairs or maintenance. The 1" full flow bypass valve incorporates four positions including a diagnostic position that allows a service technician to have pressure to test a system while providing untreated bypass water to the building. Be sure to install bypass valve onto main control valve, before beginning plumbing. Or, make provisions in the plumbing system for a bypass.

The bypass body and rotors are glass filled Noryl® and the nuts and caps are glass filled polypropylene. All seals are self-lubricating EPDM to help prevent valve seizing after long periods of non-use. Internal o-rings can easily be replaced if service is required.

The bypass consists of two interchangeable plug valves that are operated independently by red arrow shaped handles. The handles identify the direction of flow. The plug valves enable the bypass valve to operate in four positions.

1. **Normal Operation Position:** The inlet and outlet handles point in the direction of flow indicated by the engraved arrows on the control valve. Water flows through the control valve for normal operation of a water softener or filter. During the regeneration cycle this position provides regeneration water to the unit, while also providing untreated water to the distribution system (*figure 1*).
2. **Bypass Position:** The inlet and outlet handles point to the center of the bypass. The system is isolated from the water pressure in the plumbing system. Untreated water is supplied to the building (*figure 2*).
3. **Diagnostic Position:** The inlet handle points toward the control valve and the outlet handle points to the center of bypass valve. Untreated supply water is allowed to flow to the system and to the building, while not allowing water to exit from the system to the building (*figure 3*). This allows the service technician to draw brine and perform other tests without the test water going to the building.
NOTE: The system must be rinsed before returning the bypass valve to the normal position.
4. **Shut Off Position:** The inlet handle points to the center of the bypass valve and the outlet handle points away from the control valve. The water is shut off to the building. The water treatment system will depressurize upon opening a tap in the building. A negative pressure in the building combined with the softener being in regeneration could cause a siphoning of brine into the building. If water is available on the outlet side of the softener or filter it is an indication of water bypassing the system (*figure 4*) (i.e. a plumbing cross-connection somewhere in the building).

NORMAL OPERATION POSITION

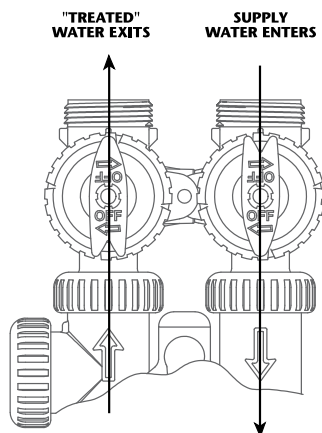


Figure 1

BYPASS POSITION

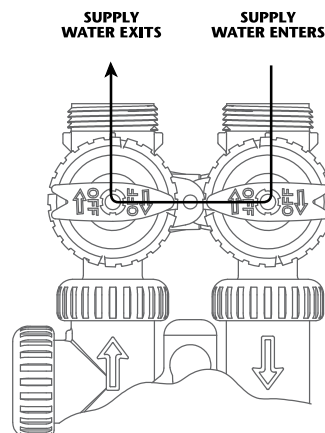


Figure 2

DIAGNOSTIC POSITION

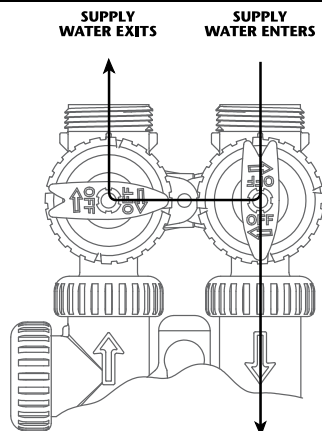


Figure 3

SHUT OFF POSITION

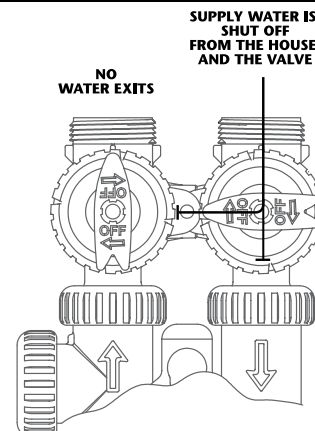


Figure 4

Installation:

GENERAL INSTALLATION & SERVICE WARNINGS:

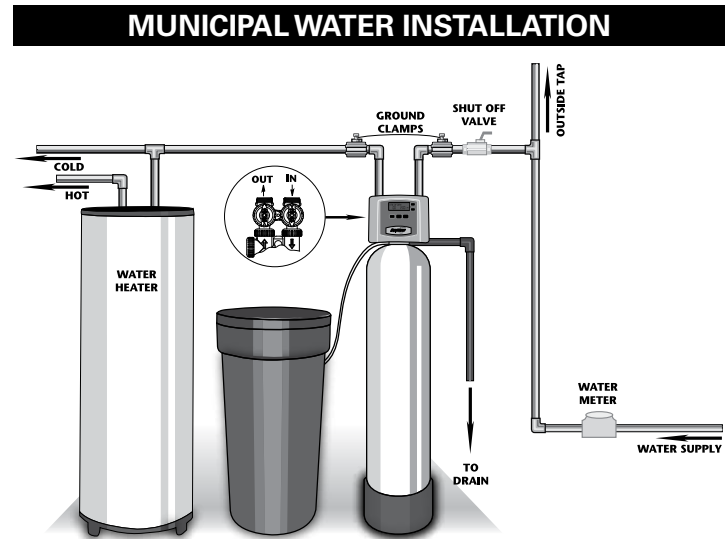
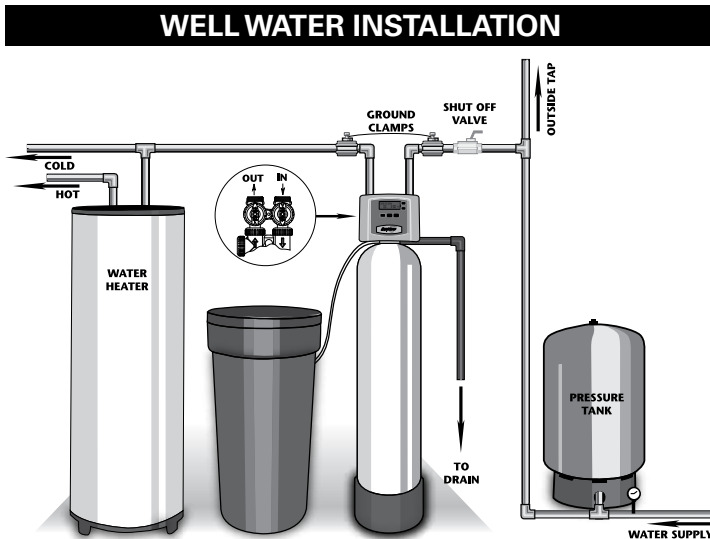
The control valve, fittings and/or bypass are designed to accommodate minor plumbing misalignments. There is a small amount of “give” to properly connect the piping but the water softener is not designed to support the weight of the plumbing.

Do not use Vaseline, oils, other hydrocarbon lubricants or spray silicone anywhere. A silicone lubricant may be used on black o-rings, but is not necessary. **Avoid any type of lubricants, including silicone, on red or clear lip seals.**

Do not use pipe dope or other sealants on threads. Teflon® tape must be used on the threads of the 1” NPT inlet and outlet, the brine line connection at the control valve, and on the threads for the drain line connection. Teflon® tape is not used on the nut connections or caps because o-ring seals are used. The nuts and caps are designed to be unscrewed or tightened by hand or with the special plastic Service Wrench, #CV3193-01. If necessary pliers can be used to unscrew the nut or cap. Do not use a pipe wrench to tighten nuts or caps. Do not place screwdriver in slots on caps and/or tap with a hammer.

SITE REQUIREMENTS:

- water pressure - 25-100 psi
- water temperature - 0.5-37.7°C (33-100°F)
- electrical - 115/120V, 60Hz uninterrupted outlet
- the tank should be on a firm level surface
- current draw is 0.5 amperes
- the plug-in transformer is for dry locations only



1. The distance between the drain and the water conditioner should be as short as possible.
2. Since salt must be periodically added to the brine tank, it should be located where it is easily accessible.
3. Do not install any water conditioner with less than **10 feet of piping** between its outlet and the inlet of a water heater.
4. Do not locate unit where it or its connections (including the drain and overflow lines) will ever be subjected to room temperatures under 0.5° C (33° F).

5. Be sure to install Bypass Valve onto main control valve before beginning plumbing. Make provisions to bypass outside hydrant and cold hard water lines at this time. Install an inlet shutoff valve and plumb to the unit's bypass valve inlet located at the right rear as you face the unit. There are a variety of installation fittings available. They are listed under Installation Fitting Assemblies, page 21. When assembling the installation fitting package (inlet and outlet), connect the fitting to the plumbing system first and then attach the nut, split ring and o-ring. Heat from soldering or solvent cements may damage the nut, split ring or o-ring. Solder joints should be cool and solvent cements should be set before installing the nut, split ring and o-ring. Avoid getting solder flux, primer, and solvent cement on any part of the o-rings, split rings, bypass valve or control valve. If the building's electrical system is grounded to the plumbing, install a copper grounding strap from the inlet to the outlet pipe. Plumbing must be done in accordance with all applicable local codes.
6. First, be sure that the drain can handle the backwash rate of the system. Solder joints near the drain must be done prior to connecting the drain line flow control fitting. Leave at least 6" between the drain line flow control fitting and solder joints. Failure to do this could cause interior damage to the flow control. Install a 1/2" I.D. flexible plastic tube to the Drain Line Assembly or discard the tubing nut and use the 3/4" NPT fitting for rigid pipe (recommended). ***If the backwash rate is greater than 7 gpm, use a 3/4" drain line.*** Where the drain line is elevated but empties into a drain below the level of the control valve, form a 7" loop at the discharge end of the line so that the bottom of the loop is level with the drain connection on the control valve. This will provide an adequate anti-siphon trap. Piping the drain line overhead <10 ft is normally not a problem. Be sure adequate pressure is available (40-60 psi is recommended). Where the drain empties into an overhead sewer line, a sink-type trap must be used. Run drain tube to its discharge point in accordance with plumbing codes. Pay special attention to codes for air gaps and anti-siphon devices.
NOTE: Drain line nut will not be supplied for units having a backwash rate greater than 7 gpm.
7. Install the 3/8" O.D. polyethylene tube from the Refill Elbow to the Brine Valve in the brine tank.
8. An overflow drain line is recommended where a brine overflow could damage furnishings or the building structure. Your softener is equipped with a brine tank safety float which greatly reduces the chance of an accidental brine overflow. In the event of a malfunction, however, an overflow line connection will direct the "overflow" to the drain instead of spilling on the floor where it could cause considerable damage. This fitting is an elbow on the side of the brine tank. Attach a length of 1/2" I.D. tubing to fitting and run to drain. Do not elevate overflow line higher than 3" below bottom of overflow fitting. Do not "tie" this tube into the drain line of the control valve. Overflow line must be a direct, separate line from overflow fitting to drain, sewer, or tub. Allow an air gap as per the drain line instructions.



Caution: Never insert a drain line into a drain, sewer line, or trap. Always allow an air gap between the drain line and the wastewater to prevent the possibility of sewage being back-siphoned into the conditioner.

Programming Procedures:

1. Set Time of Day:

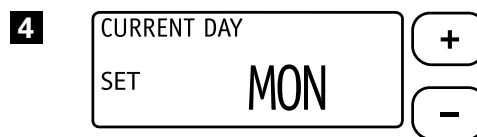
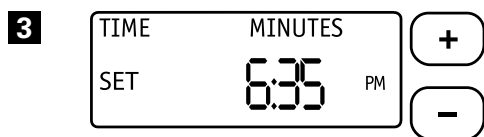
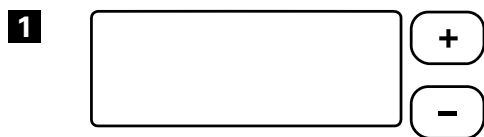
Time of day should only need to be set after extended power outages or when daylight saving time begins or ends. If an extended power outage occurs, the time of day will flash on and off indicating that the time should be reset.

STEP 1 – Press **SET CLOCK**.

STEP 2 – **Current Time (hour)**: Set the hour of the day using **+** or **-** buttons. **"AM/PM"** toggles after 12. Press **NEXT** to go to step 3.

STEP 3 – **Current Time (minutes)**: Set the minutes using **+** or **-** buttons. If it is desired to back up to the previous step press **REGEN** button once. Press **NEXT** to go to step 4.

STEP 4 – **Current Day**: Set the day of the week using **+** or **-** buttons. Pressing **NEXT** will exit **SET CLOCK** and return to the general operating display.



2. Programming:

NOTE: The manufacturer has preset the unit so that the gallons between regenerations will be automatically calculated after the hardness is entered.

STEP 1 – Press **NEXT** and **+** simultaneously for 3 seconds.

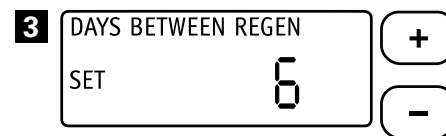
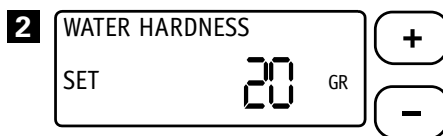
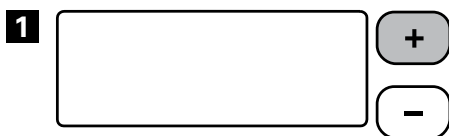
STEP 2 – **Hardness**: Set the amount of hardness in grains per gallon (default 20) using the **+** or **-** buttons. The allowable range is from 1 to 150 in 1 grain increments.

STEP 3 – **Days Between Regeneration (Day Override)**: The manufacturer has factory set 6 DAYS as the default. This is the maximum number of days between regenerations. If this is set to **"OFF"**, regeneration initiation is based solely on gallons used. If any number is set (allowable range from 1 to 28), a regeneration initiation will be called for on that day even if a sufficient number of gallons were not used to call for a regeneration.

Set Day Override using **+** or **-** buttons (6 is recommended):

- set number of days between regeneration (1 to 28); or
- set to **"OFF"**

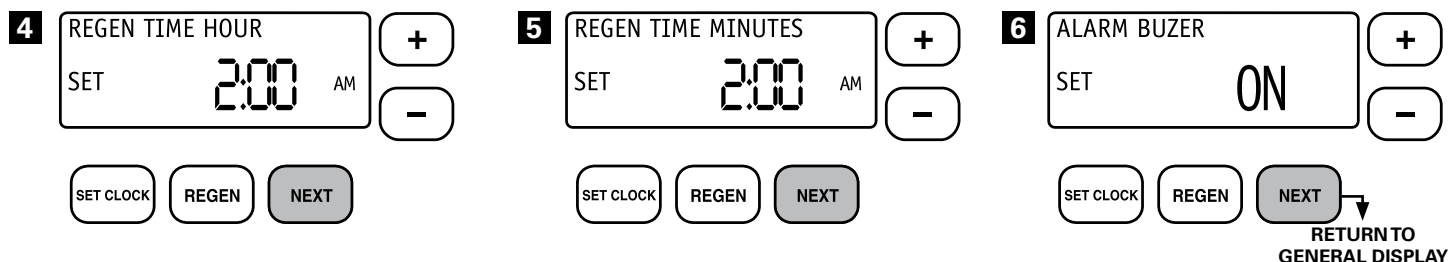
Press **NEXT** to go to step 4. Press **REGEN** if you need to return to the previous step.



STEP 4 – Regeneration Hour: The manufacturer has factory set 2:00 A.M. as the default. This is the hour of day for regeneration and can be reset by using **+** or **-** buttons. **"AM/PM"** toggles after 12. The default time is 2:00 a.m. (recommended for a normal household). Press **NEXT** to go to step 5. Press **REGEN** if you need to return to the previous step.

STEP 5 – Regeneration Minutes: Set the minutes using **+** or **-** buttons. Press **NEXT** to go to step 6. Press **REGEN** to return to previous step. To initiate an immediate manual regeneration, press and hold the **REGEN** button for three seconds. The system will begin to regenerate immediately. The control may be manually stepped through the regeneration cycles by pressing **REGEN**.

STEP 6 – Alarm Buzzer: The manufacturer has factory set **ON** as the default. Alarm will sound immediately after regeneration if there is no salt or if another error has occurred. Turn the alarm OFF or ON using **+** or **-** buttons. Press **NEXT** to exit installer programming.



Operating Displays and Instructions:

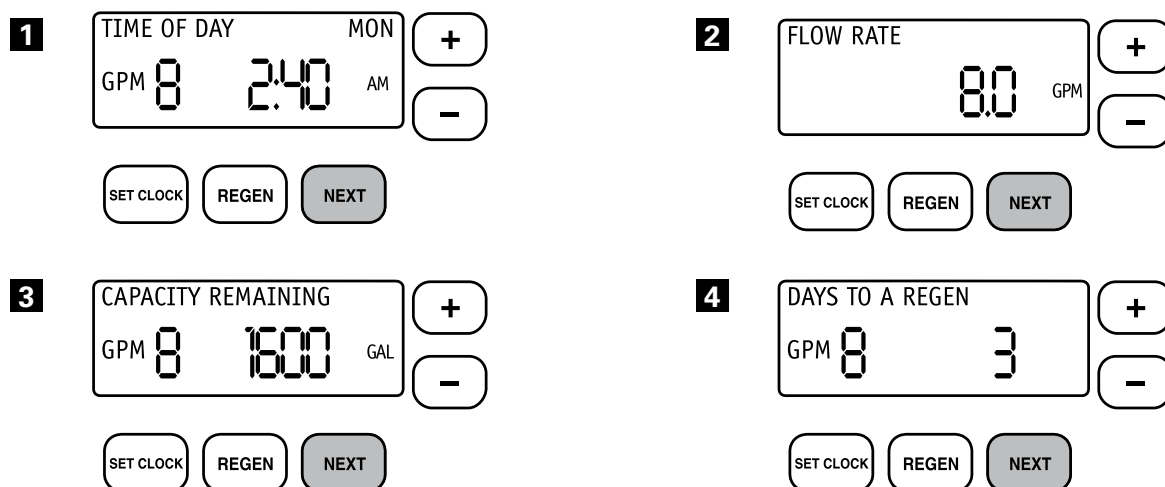
1. **General Operation:** When the system is operating, one of four displays may be shown. Pressing **NEXT** will alternate between the displays.

1. Current **"TIME OF DAY"** and **"GPM"**
2. **"FLOW RATE"** which is the current treated water flow rate through the system measured in GPM (gallons per minute).
3. **"CAPACITY REMAINING"** which is the gallons that will be treated before the system signals a regeneration cycle.
4. **"DAYS TO A REGEN"** is the number of days left before the system goes through a regeneration cycle, based on the days override value.

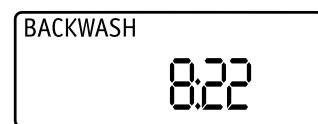
If the system has called for a regeneration that will occur at the preset time of regeneration, the words **"REGEN TODAY"** will appear on the display.

If a water meter is installed, **"GPM"** flashes on the display when water is being treated, indicating gallons per minute going through the system.

The user can scroll between the displays as desired:



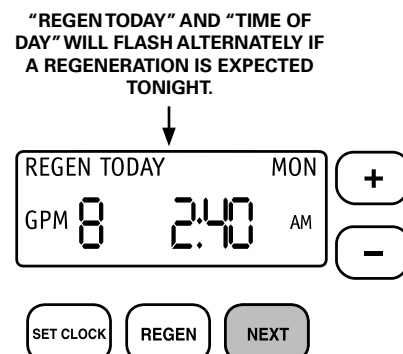
2. **Regeneration Mode:** Typically a system is set to regenerate at a time of no water usage. If there is a demand for water when the system is regenerating, untreated water will be delivered. When the system begins to regenerate, the display will change to include information about the step of the regeneration process and the time remaining for that step to be completed. The system runs through the steps automatically and will reset itself to provide treated water when the regeneration has been completed.



Regeneration Mode Display

3. **Manual Regeneration:** Sometimes there is a need to regenerate before the control valve calls for it. This may be needed if a period of heavy water use is anticipated or when the system has been operated without salt.

- To initiate a manual regeneration at the next preset regeneration time, press and release **REGEN**. The words **"REGEN TODAY"** will flash on the display to indicate that the system will regenerate at the next regeneration time (set in Programming, steps 4 and 5). If you pressed the **REGEN** button in error, pressing the button again will cancel the command.
- To initiate a manual regeneration immediately, press and hold the **REGEN** button for three seconds. The system will begin to regenerate immediately. *This command cannot be cancelled.*



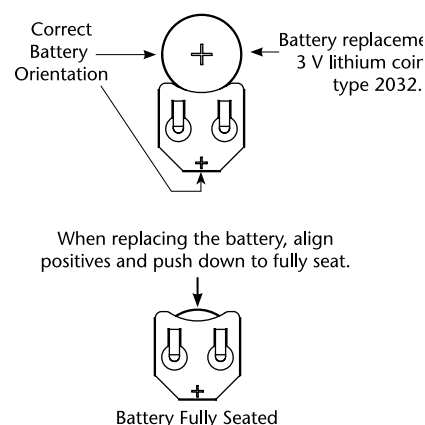
Manual Regeneration Display

Once a manual regeneration is initiated, the unit will go into the **"BACKWASH"** position, followed by the steps listed on page 8 (Start-up Instructions). During this sequence the water softener will deliver water, but it will be untreated.

4. **Power Loss and Battery Replacement:** The AC transformer comes with a 15 foot power cord and is designed for use with the control valve; the transformer should only be used in a dry location.

In the event of a power outage, the control valve will remember all settings and time of day. If an extended power outage occurs, the control valve will keep time of day until the battery is depleted. When the battery becomes depleted, the only item that needs to be reset is the time of day and will be indicated by the time of day flashing. All other settings are permanently stored in the nonvolatile memory.

If a power loss occurs and the time of day flashes, this indicates that the battery is depleted. The time of day should be reset and the non-rechargeable battery should be replaced. The battery is a 3 Volt lithium coin cell type 2032 and is readily available at most stores. To access battery location, remove front cover (see diagram on page 14 for battery location).



Battery Replacement

5. **Check Salt Indicator and Audible Alarm:** This control valve is equipped with a Low Salt Warning to alert homeowners that the system is operating in a low salt condition. This usually indicates that the salt level in the brine tank is too low to operate properly. If **"CHECK SALT"** appears on the screen, there will usually be an audible alarm that sounds also (if turned on), alerting you to these conditions.

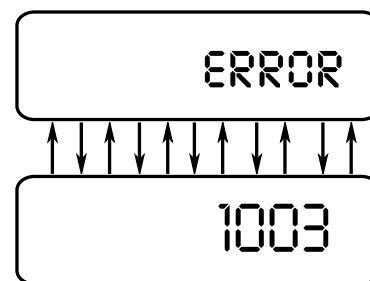
To turn off alarm: If the audible alarm sounds due to a low salt condition, press any button on the face of the control valve to turn off. If salt is not added to the brine tank before the next regeneration, the **"CHECK SALT"** indicator will alarm again.

IMPORTANT: If you feel that the salt level is adequate (at least 1/3 full) in the brine tank, please contact the dealer that installed your system for service.

6. **Error Message:** If the word “**ERROR**” and a number are alternately flashing on the display record the number and contact your dealer for help. This indicates that the control valve was not able to function properly.

7. **Brine Tank Maintenance and Salt:** Refill the brine tank as necessary, making sure at least 1/3 of the brine tank is full at all times. Without proper salt levels, the water softener may not operate properly.

The manufacturer recommends the use of solar salt for best results. The brine tank is manufactured for the use of solar, pellets, rock salt or block salt. If pellet or rock salt is used, a cleaning of the brine tank every six months is recommended.



Error Display



CAUTION: Do not use any resin cleaners, nor place any resin cleaners into the brine tank. Furthermore, do not use any salt that indicates it is an iron cleaning salt or that contains any cleaning additives. This may be harmful to the water softener and for human consumption. Consult dealer for proper cleaning instructions.

Start-up Instructions:

- After installation is complete, rotate bypass handles to bypass mode. (Figure 2 on page 2).
- Turn on water and check for leaks.
- Fully open a cold water faucet - preferably a laundry sink or bathtub with no aerator.
- Allow water to run until clear to rid pipes of debris which may have occurred during installation.

System regeneration sequence is in the following order: (If it is desired to change this sequence please refer to the “Dealer Manual” or contact VIQUA)

- 1) **BACKWASH**
- 2) **REGENERANT DRAW AND SLOW RINSE**
- 3) **FAST RINSE**
- 4) **BRINE TANK REFILL**
- 5) **END (return to service – softening)**

The system is now ready for filling with water and for testing.

1. With the softener in the bypass mode (Figure 2 page 2) and the control valve in normal operation where the display shows either the time of day or the gallons remaining, manually add 5” of water to the regenerant tank.

NOTE: If too much water is put into the brine tank during softener start up it could result in a “salty water” complaint after the first regeneration.

During the first regeneration the unit will draw out the initial volume of brine/regenerant and refill it with the correct preset amount.

2. Press and hold the **REGEN** button until the motor starts. Release button. The display reads “**BACKWASH**” and the remaining time in this step is counting down. Unplug the transformer so that the valve will not cycle to the next position. Open the inlet handle of the bypass valve very slightly allowing water to fill the tank slowly in order to expel air.

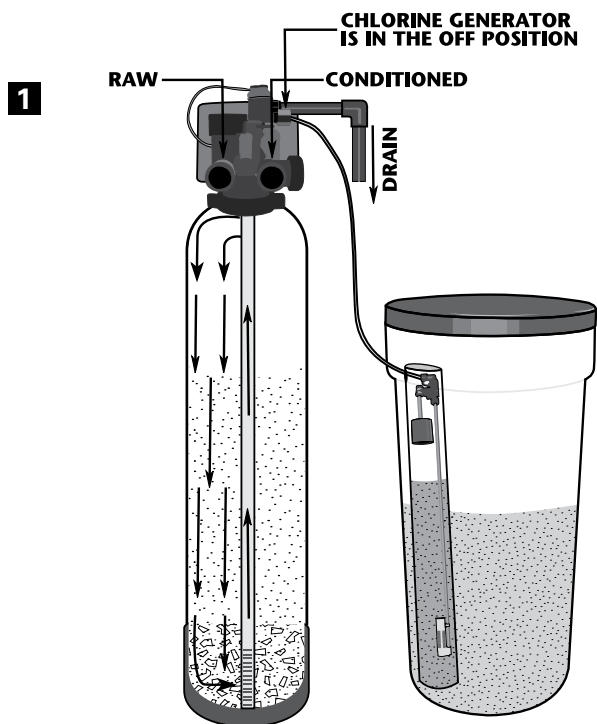


CAUTION: If water flows too rapidly there will be a loss of media to the drain.

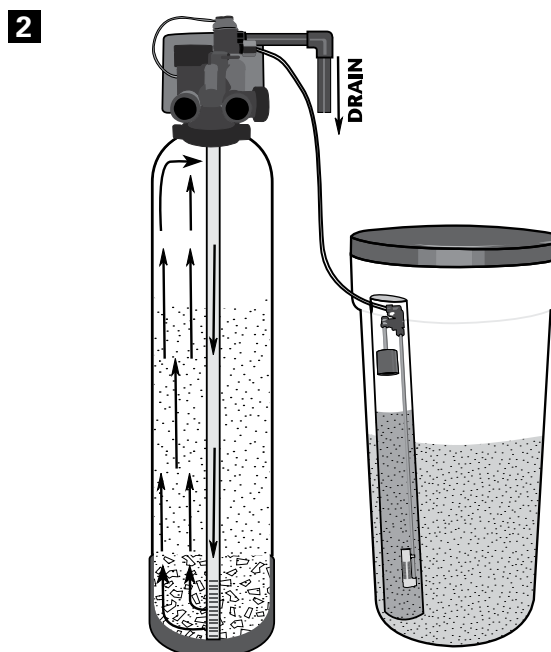
3. When the water is flowing steadily to the drain without the presence of air, slowly open the inlet valve. Restore power and momentarily press the **REGEN** button to advance the control to the **"REGENERANT DRAW"** position.
4. The bypass is now in the diagnostic mode (Figure 3 on page 2). Check to verify that water is being drawn from regenerant brine tank with no air leaks or bubbles in the brine line. There should be a slow flow to the drain.
5. Momentarily press **REGEN** again until the display reads **"RINSE"**. There should be a rapid flow to the drain. Unplug transformer to keep the valve in the **"RINSE"** position. Allow to run until steady, clear, and without air. While the unit is rinsing load the brine tank with water softener salt (see caution – page 8). Restore power.
6. Place bypass valve in the normal operating mode (Figure 1 on page 2) by opening the outlet bypass handle. Press **REGEN** until the display reads **"FILL"** and then press **REGEN** again to return to the normal service position with **"TIME OF DAY"** being displayed.

Water Conditioner Flow Diagrams:

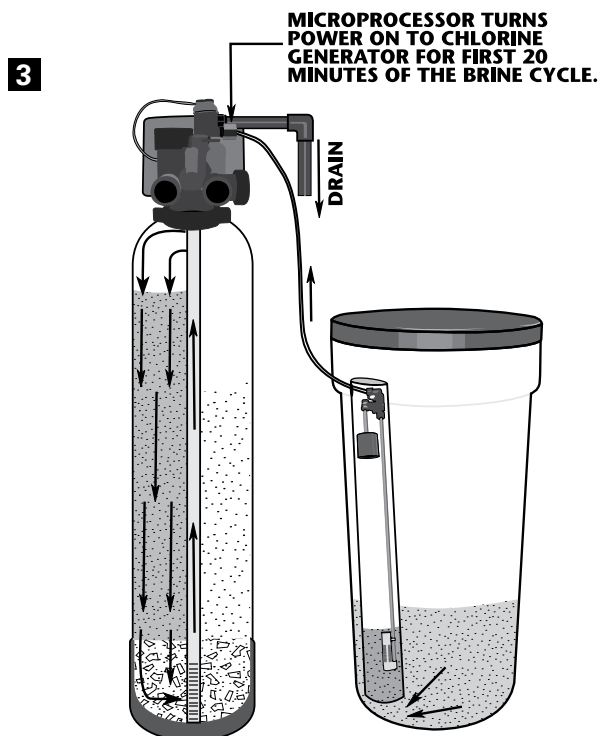
LEGEND:  **RESIN BED (Zeolite)**  **GRAVEL BED**  **SALT**



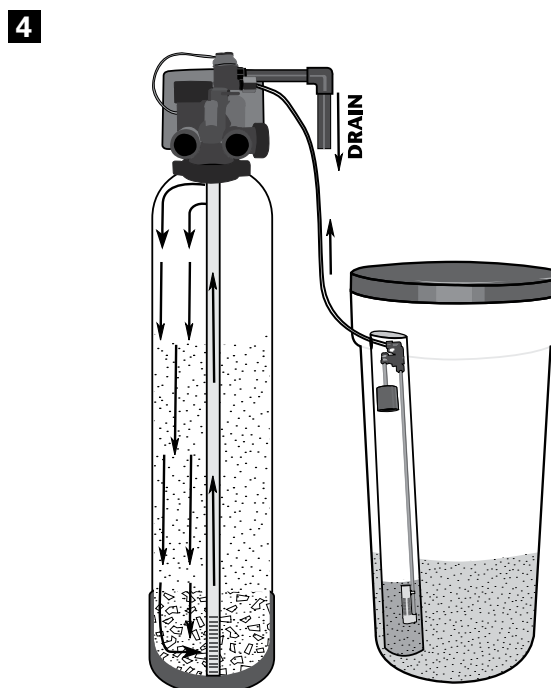
1. **SERVICE POSITION:** Raw water enters control head and flows down through the Zeolite mineral, removing hardness and iron (neutralizing acidic water conditions on SE1 models).



2. Raw water enters control head and flows into lower distributor upward through mineral bed and out to drain, lifting and cleaning turbid particles from Zeolite bed.



3. **BRINE RINSE POSITION:** Raw water enters control head flowing through the injector, drawing brine from the brine tank. Microprocessor turns on the chlorine generator allowing brine and chlorine to flow through the Zeolite mineral, sanitizing and regenerating the water conditioner.

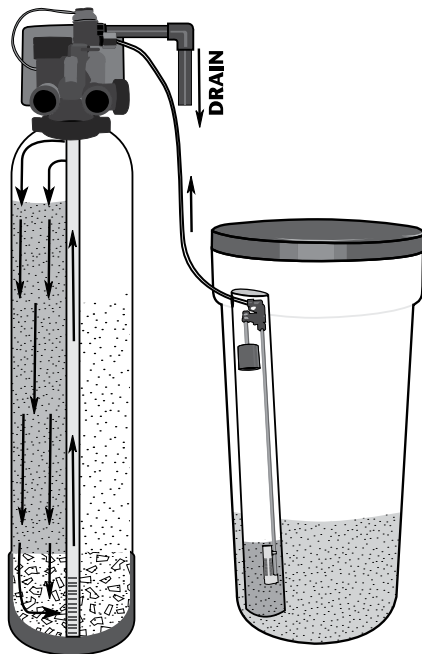


4. **SLOW RINSE POSITION:** Chlorine generator is turned off, raw water enters control head and flows down through the Zeolite mineral, rinsing chlorine and brine to drain.

Water Conditioner Flow Diagrams:

LEGEND:  **RESIN BED (Zeolite)**  **GRAVEL BED**  **SALT**

5



5. **RAPID RINSE POSITION:** Chlorine generator is off. Raw water enters control head and flows down through the Zeolite mineral, rinsing any excess brine to drain.

6



6. **BRINE TANK FILL POSITION:** Water enters control head to self clean injector while flowing back to refill the brine tank. Unit will deliver soft water in this position.

Troubleshooting Guide:

SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Timer does not display "TIME OF DAY"	Transformer unplugged	• reconnect transformer
	No power at outlet	• repair or use working outlet
	Defective transformer	• replace transformer
	Defective PC board	• replace PC board
Time does not display correct time of day or "TIME OF DAY" flashes	Outlet is on a switch	• used unswitched outlet
	Power outage; transformer was unplugged from either wall outlet or from PC board	• reset time of day and replace battery (see instructions on page 7)
	Defective PC board	• replace PC board
"CHECK SALT" appears on screen with audible alarm	Low salt in brine tank - alarm activated	• push any button on cover to stop alarm and add salt to brine tank
	Plugged injector and/or injector screen	• clean or replace injector and screen
	Drain line plugged or restricted	• clean drain line restriction
	Chlorine generator probes are dirty	• clean or replace chlorine generator
	System drawing in air	• tighten fittings in brine system
	System "short brining"	• clean brine line flow control, check for bridging or hardened salt around brine well, increase brine refill time
Doesn't display "SOFTENING" when water is flowing	Bypass valve in bypass position	• put bypass in service position
	Meter cable disconnected	• reconnect PC board
	Restricted/stalled meter turbine	• remove meter and check for debris
	Defective meter	• replace meter
	Defective PC board	• replace PC board
Unit regenerates at wrong time of day	Past power outage	• reset time of day
	Incorrect time of day displayed	
	Time of regenerant set incorrectly	• reset time of regeneration
	Control set at "ON 0"	• check with regeneration time option in programming
	Control set at "NORMAL + on 0"	
Valve stalled in regeneration	Motor not operating	• replace motors
	No power at outlet	• repair outlet or use working outlet
	Defective transformer	• replace transformer
	Defective PC board	• replace PC board
	Broken drive gear or drive cap assembly	• replace gear or drive cap assembly
	Broken piston retainer	• replace drive cap assembly
	Broken main or regenerant piston	• replace main or regenerant piston

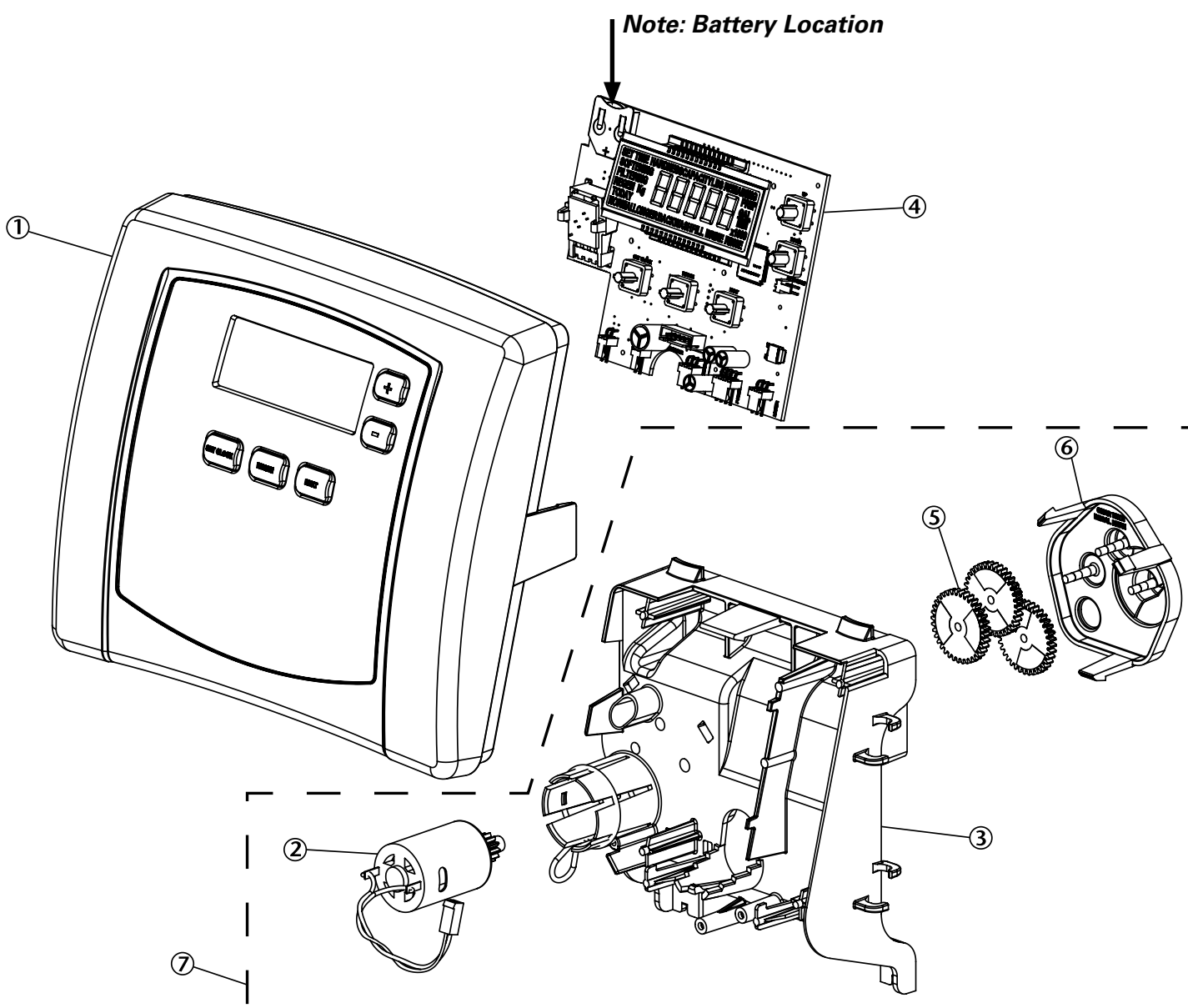
SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Valve does not regenerate automatically when REGEN button is pressed	Transformer unplugged	• connect transformer and PC board power
	No power at outlet	• restore power
	Broken drive gear or drive cap assembly	• replace gear or drive cap assembly
	Defective PC board	• replace PC board
Valve does not regenerate automatically but does when REGEN button is pressed	Bypass valve not in normal operating mode	• see bypass diagrams on page 4
	Meter disconnected	• reconnect to PC board
	Obstructed meter turbine	• clear obstruction
	Defective meter	• replace meter
	Programming error	• review programming
	Defective PC board	• replace board
"ERROR" followed by code # "ERROR" code 1001 – unable to recognize start of regeneration "ERROR" code 1002 – unexpected stall "ERROR" code 1003 – motor ran too long Timed out trying to reach next cycle position (If other codes appear, contact factory)	Valve has just been serviced	• press NEXT and REGEN for 3 seconds or momentarily unplug power source from PC board
	Foreign material stuck in valve	• check piston and spacer stack for obstruction
	Excessive piston resistance	• replace piston(s) and spacer stack assembly
	Piston not in home position	• press NEXT and REGEN or momentarily unplug PC board power
	Motor gears not fully engaged – motor wires broken – missing or broken gear	• check motor wiring
	Center drive gear reflector dirty or damaged – missing or broken gear	• replace or clean drive gear(s)
	Drive bracket incorrectly aligned on backplate	• reset drive bracket
	PC board is damaged or defective	• replace PC board
	PC board incorrectly aligned on drive bracket	• reset PC board onto drive bracket

Warranty:

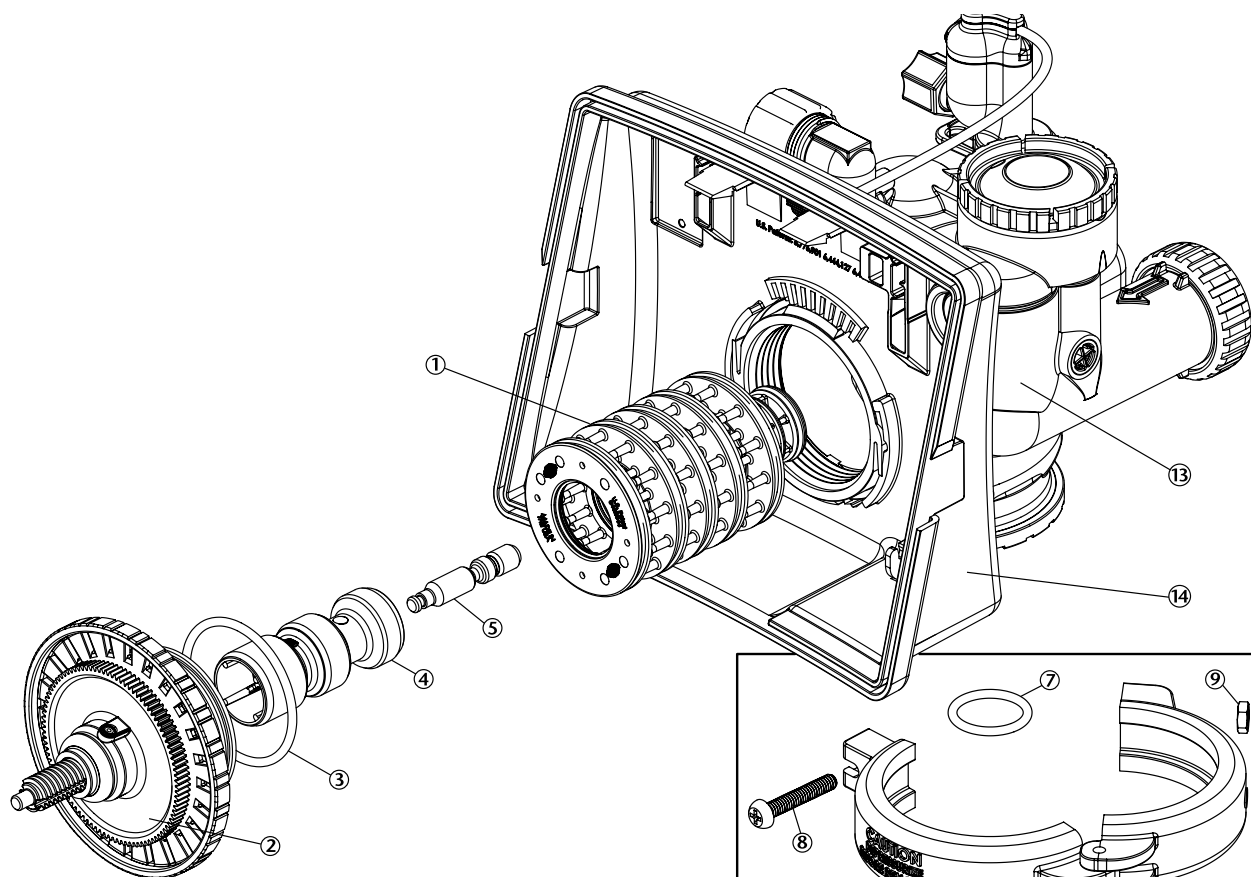
This Advanced Water Products water conditioner unit is conditionally guaranteed against defects in material and workmanship for a period of three (3) years unless otherwise specified. The fiberglass "Mineral Tank" is conditionally guaranteed against defects in material and workmanship for a period of ten (10) years to the original owner of the equipment. The warranty does not include freezing of equipment, vacuum on system, or extreme pressure (+125 psi). The "Brine Tanks" are conditionally guaranteed against defects in material and workmanship for a period of five (5) years. The water conditioning "Media" is conditionally guaranteed against defects in material and workmanship for a period of one (1) year. The warranty does not cover change in water test, mis-application of media, use of mineral cleaners in brine tank including salt additives, lack of maintenance, or any other acts of God. VIQUA will not be responsible for any labour charges to the customer incurred by the dealer or any freight charges to or from the customer. The above provisions of the guarantee will be valid as long as the unit is connected with identical properties and conditions of the original installation and owned by the original owner. Provisions should be made by the owner, that in the event of leaking or overflow of the brine tank that the resulting flow of water will not damage any surroundings. No responsibility is assumed for loss of use of the unit, inconvenience, loss or damage to personal property or any consequential damages. This warranty extends only to repair or replacement (at the manufacturer's discretion) of this product in accordance with the conditions stated within.

Replacement Parts:

FRONT COVER AND DRIVE ASSEMBLY			
Item No.	Part No.	Description	Qty.
1	CV3540S-A	black cover	1
	CV3540-WS-A	grey cover	1
2	CV3107-1	motor	1
3	CV3106-1	drive bracket & spring clip	1
4	CV3554WS	PC board, CC	1
5	CV3110	drive gear, 12 x 36	3
6	CV3109	drive gear cover	1
7	CV3002CC	drive assembly, CC	1
N/A	CV3526	transformer, 110V-12C	1

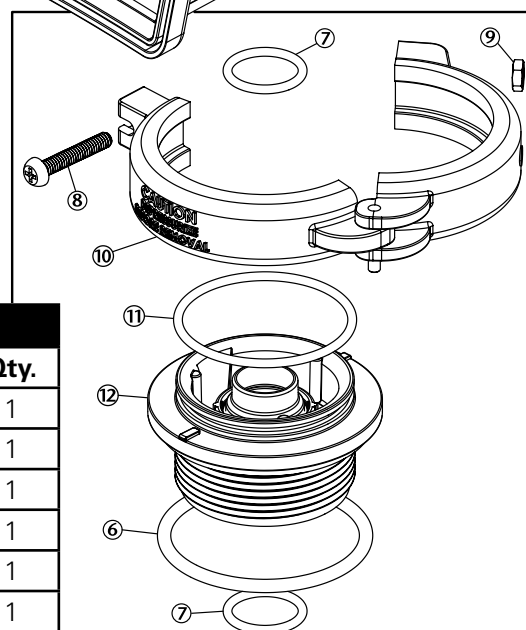


Replacement Parts:



PISTON ASSEMBLY

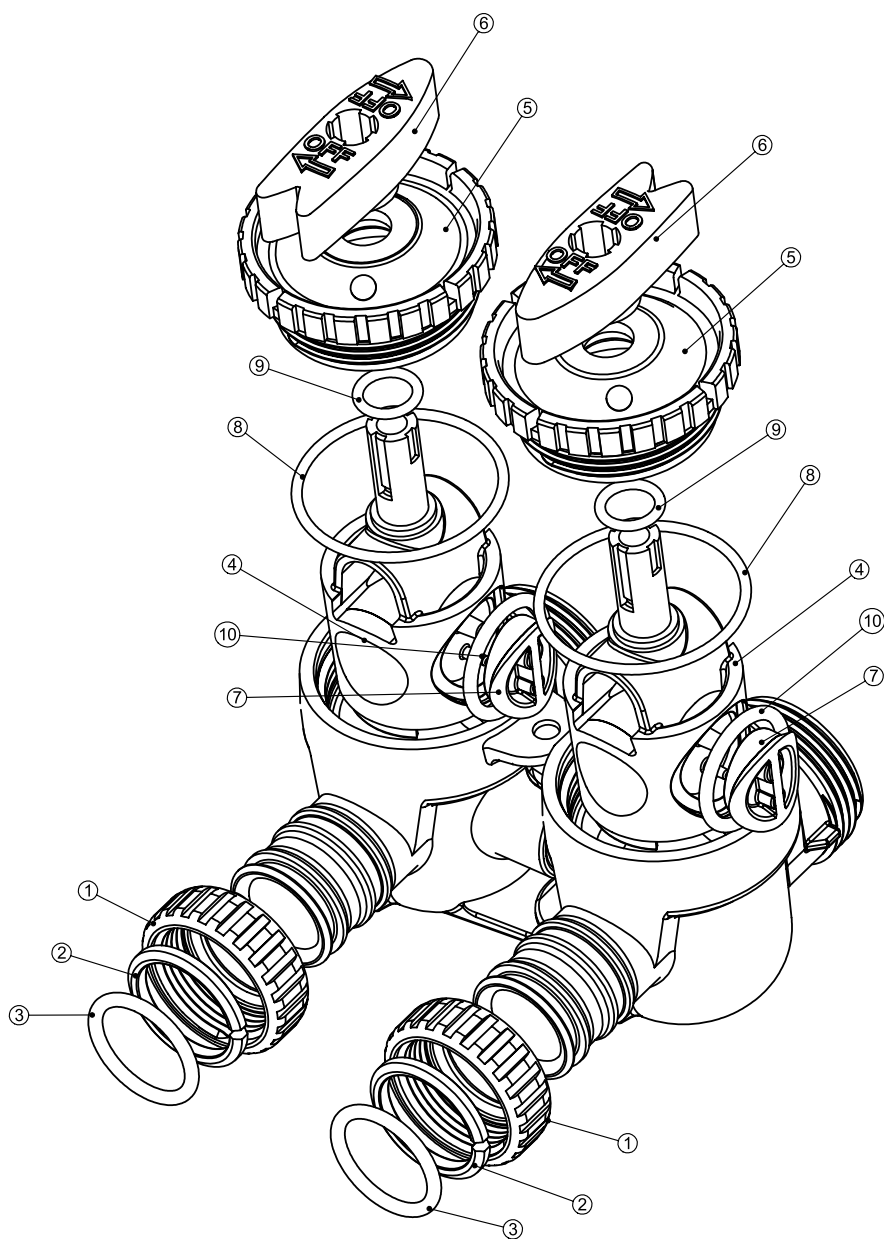
Item No.	Part No.	Description	Qty.
1	CV3005	1" spacer stack assembly	1
	CV3430	1.25" spacer stack assembly	1
2	CV3004	drive cap assembly	1
3	CV3153	o-ring 228	1
4	CV3011	1" piston assembly down-flow	1
	CV3011-01	1" piston assembly up-flow	1
	CV3407	1.25" piston assembly down-flow	1
5	CV3174	regenerant piston	1
6	CV3180	o-ring 337	1
7	CV3105	o-ring 215	1
8	CV3556	screw, 1/4-20x1-1/2 18-8SS	1
9	CC1-00318337	nut, 1/4-20 HEX 18-8SS	1
10	CV3016	QC2 clamp assembly (includes screw & nut)	1
11	CV3452	o-ring 230	1
12	CV3015	WS1 QC2 tank adapter assembly (includes o-ring)	1
13	CV3001	1" body assembly down-flow	1
	CV3001UP	1" body assembly up-flow	1
	CV3020	1.25" body assembly down-flow	1
14	CV3541	drive backplate	1



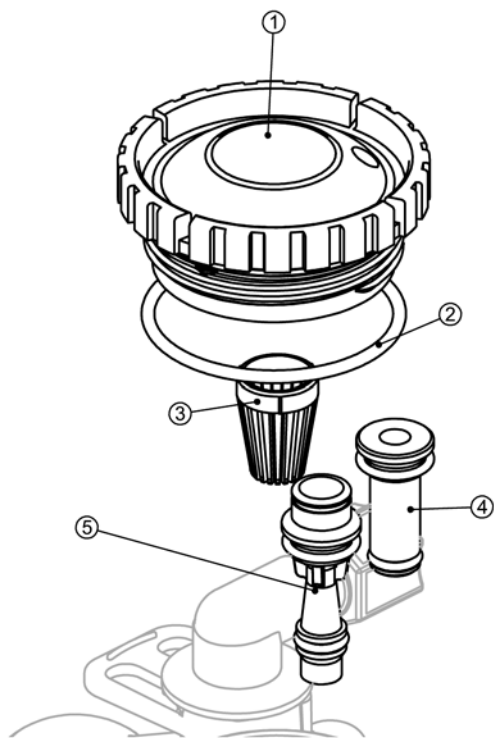
NOTE: Not available on 1 1/4" valve.

Replacement Parts:

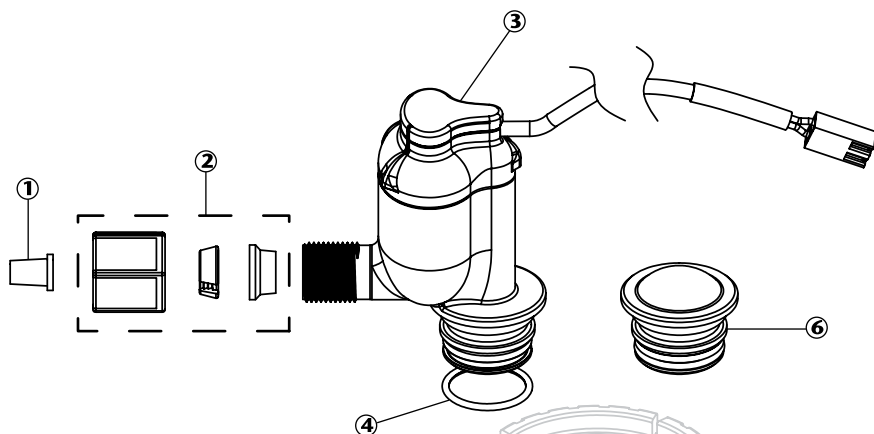
BYPASS VALVE ASSEMBLY			
Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	2
2	CV3150	split ring	2
3	CV3105	o-ring 215	2
4	CV3145	bypass rotor, 1"	2
5	CV3146	bypass cap	2
6	CV3147	bypass handle	2
7	CV3148	bypass rotor seal retainer	2
8	CV3152	o-ring 135	2
9	CV3155	o-ring 112	2
10	CV3156	o-ring 214	2



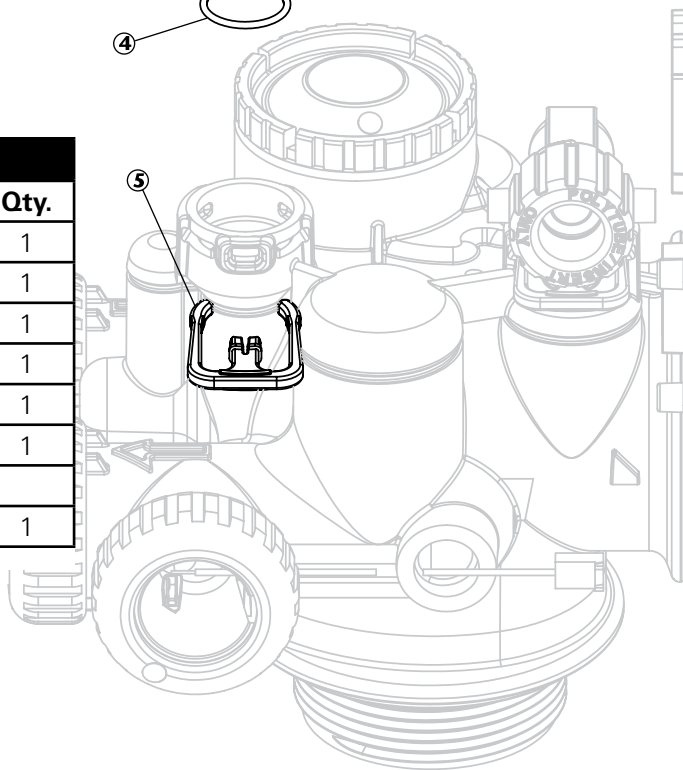
Replacement Parts:



INJECTOR ASSEMBLY			
Item No.	Part No.	Description	Qty.
1	CV3176	injector cap	1
2	CV3152	o-ring 135	1
3	CV3177	injector screen	1
4	CV3010-1Z	injector assembly plug	1
5	CV3010-1A	A injector assembly, BLACK	1
	CV3010-1B	B injector assembly, BROWN	
	CV3010-1C	C injector assembly, VIOLET	
	CV3010-1D	D injector assembly, RED	
	CV3010-1E	E injector assembly, WHITE	
	CV3010-1F	F injector assembly, BLUE	
	CV3010-1G	G injector assembly, YELLOW	
	CV3010-1H	H injector assembly, GREEN	
	CV3010-1I	I injector assembly, ORANGE	
	CV3010-1J	J injector assembly, LIGHT BLUE	
	CV3010-1K	K injector assembly, LIGHT GREEN	



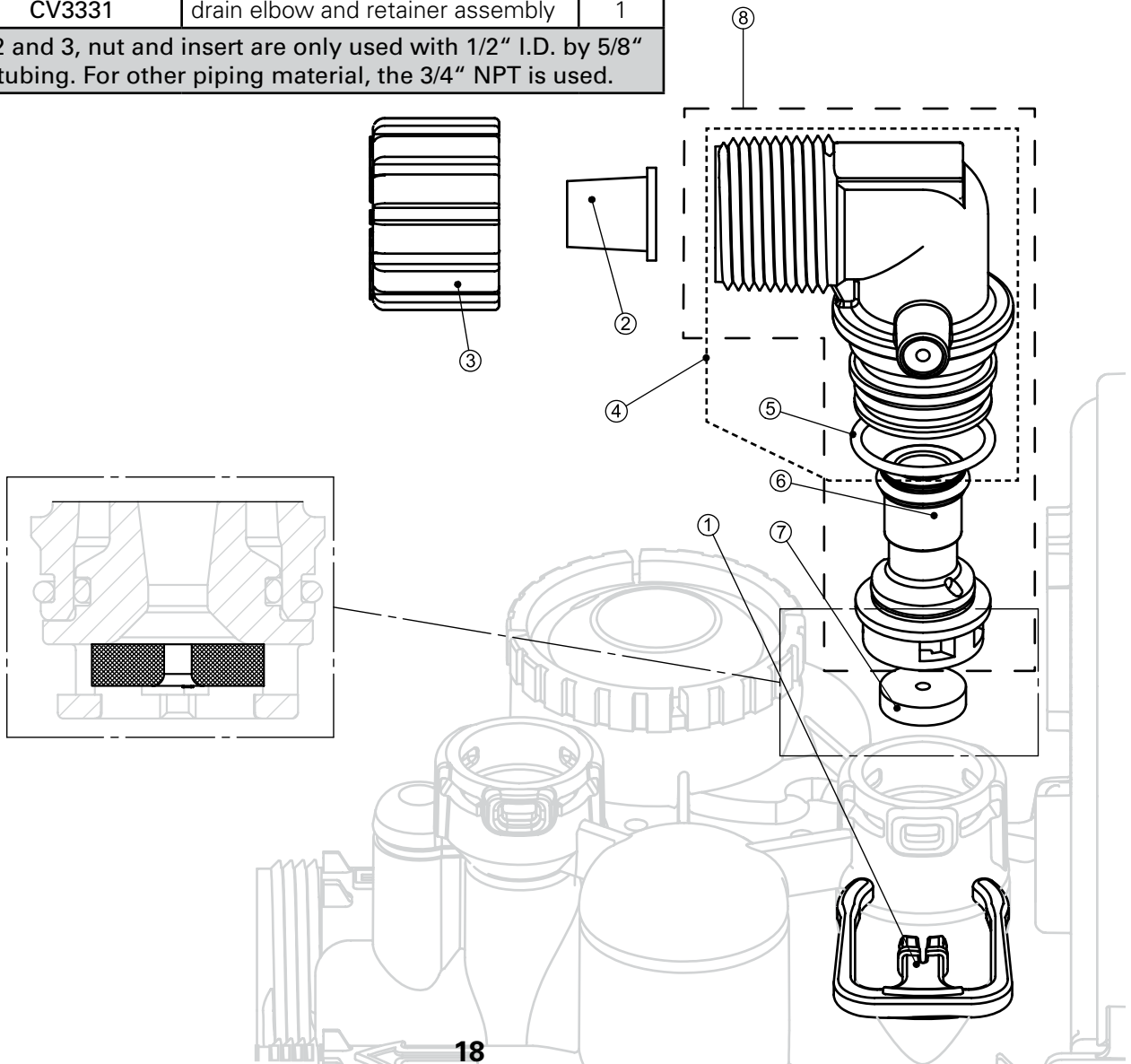
CHLORINE GENERATOR ASSEMBLY			
Item No.	Part No.	Description	Qty.
1	JCP-P-6	poly-tube 3/8" insert	1
2	JCPG-6PBLK	nut compression, 3/8" black	1
3	CV3395	chlorinator, NPT WR body assembly	1
4	CV3163	o-ring 019	1
5	CH4615	locking clip	1
6	CV3195-01	refill port plug assembly	1
ASSEMBLIES			
N/A	CV3395-A	complete chlorinator assembly	1



Replacement Parts:

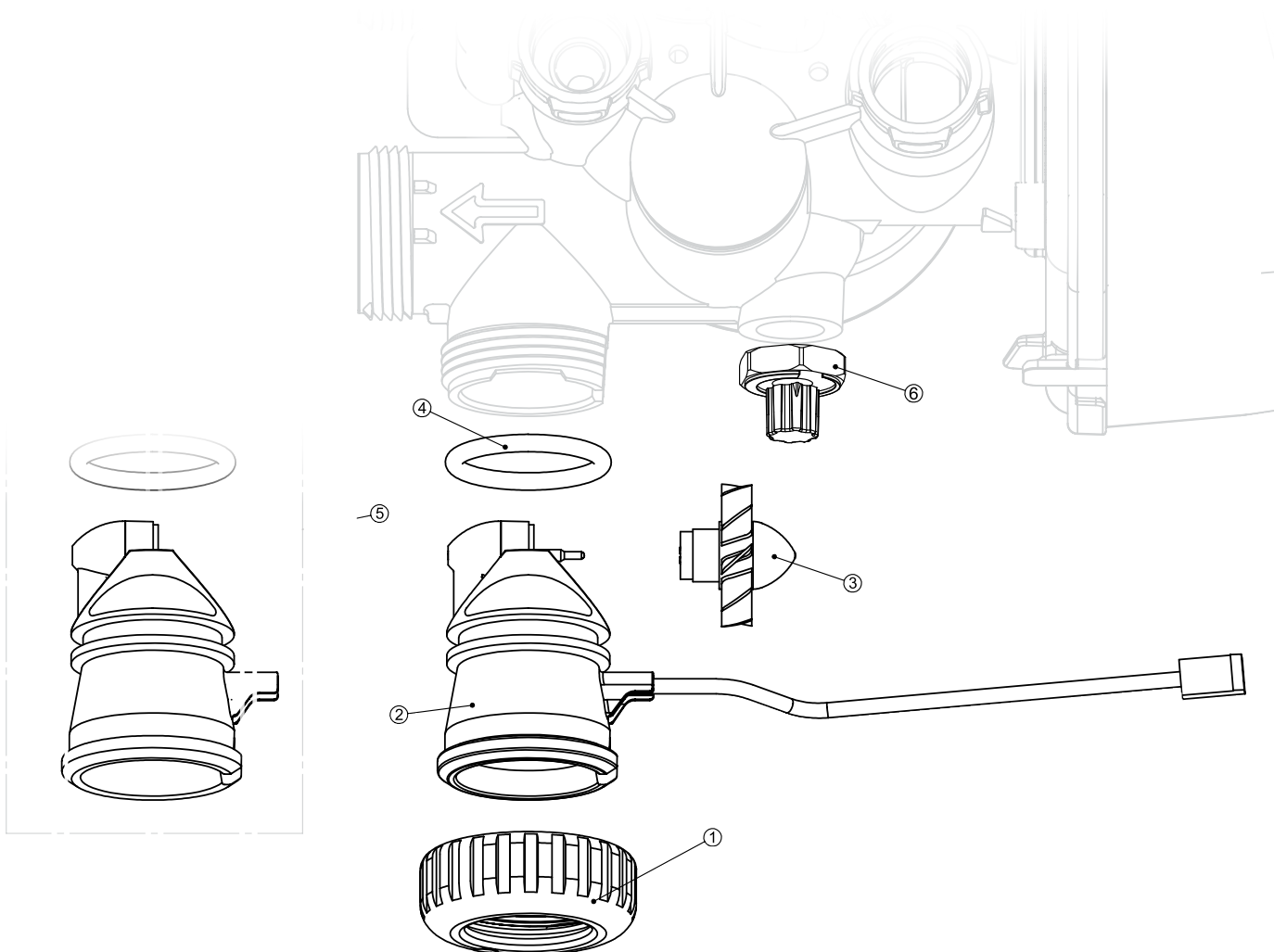
DRAIN LINE ASSEMBLY 3/4"			
Item No.	Part No.	Description	Qty.
1	CH4615	elbow locking clip	1
2	CPKP10TS8-BULK	OPTIONAL insert, 5/8" tube	1
3	CV3192	OPTIONAL nut, 3/4" drain elbow	1
4	CV3158-01	drain elbow, 3/4" NPT with o-ring	1
5	CV3163	o-ring 019	1
6	CV3159-01	DLFC retainer assembly	1
7	CV3162-007	0.7 DLFC for 3/4" elbow	1
	CV3162-010	1.0 DLFC for 3/4" elbow	
	CV3162-013	1.3 DLFC for 3/4" elbow	
	CV3162-017	1.7 DLFC for 3/4" elbow	
	CV3162-022	2.2 DLFC for 3/4" elbow	
	CV3162-027	2.7 DLFC for 3/4" elbow	
	CV3162-032	3.2 DLFC for 3/4" elbow	
	CV3162-042	4.2 DLFC for 3/4" elbow	
8	CV3162-053	5.3 DLFC for 3/4" elbow	1
	CV3331	drain elbow and retainer assembly	

Note: items 2 and 3, nut and insert are only used with 1/2" I.D. by 5/8" O.D. poly-tubing. For other piping material, the 3/4" NPT is used.



Replacement Parts:

WATER METER & METER PLUG			
Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" QC	1
2	CV3003	meter assembly, includes items 3 & 4	1
3	CV3118-01	turbine assembly	1
4	CV3105	o-ring 215	1
5	CV3003-01	meter plug assembly	1
6	CV3013	OPTIONAL mixing valve	1



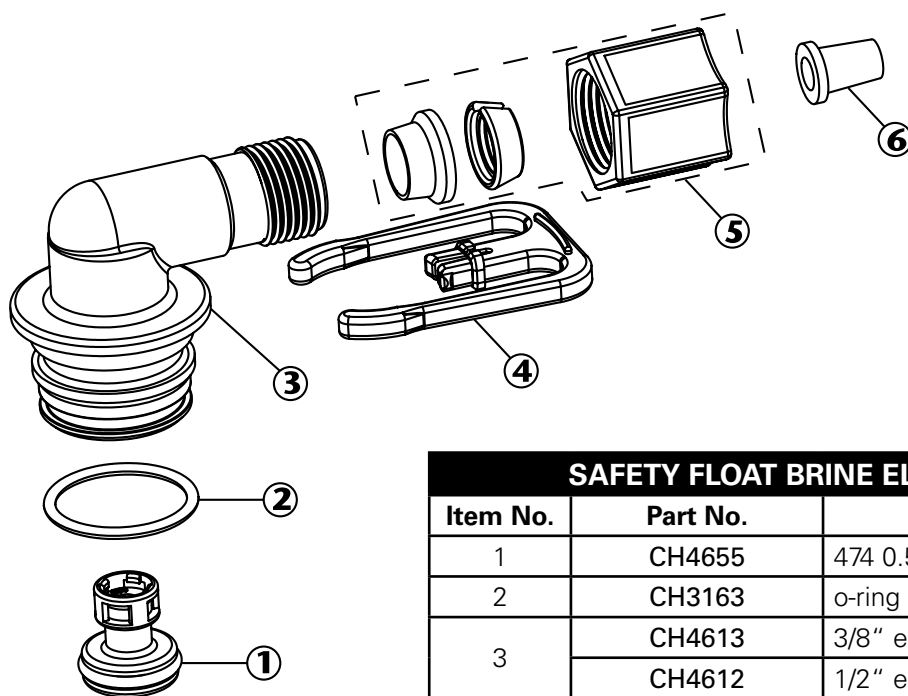
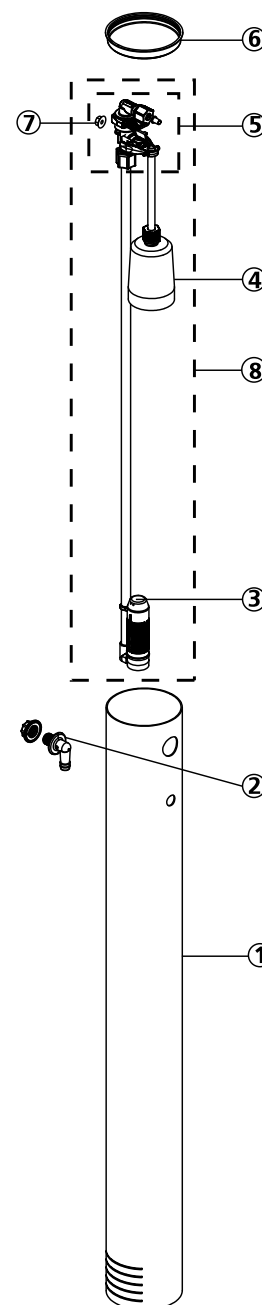
Replacement Parts:

SAFETY FLOAT ASSEMBLY

Item No.	Part No.	Description	Qty.
1	CH1030-32	4" x 32" brine well (18" x 36" BT)	1
	CH1030-34.5	4" x 34.5" brine well (18" x 40" BT)	
2	CH1018	2 piece overflow set	1
3	CH4500-48	474 air check assembly, 1/2" x 48"	1
4	CH4640-32	474 float assembly, 32" with two grommets	1
5	CH4600-50	474 safety brine valve with 0.5 gpm flow control	1
6	CH7016	cap 4" brine well	1
7	CH4626	nut safety brine valve stand off	1

ASSEMBLIES

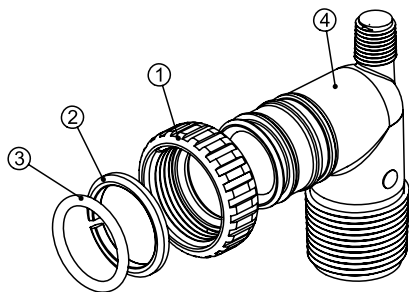
8	CH4700-32WR-1	0.5 gpm safety float assembly, 18" x 36"	1
	CH4700-34.5WR-1	0.5 gpm safety flow assembly, 18" x 40"	



SAFETY FLOAT BRINE ELBOW ASSEMBLY

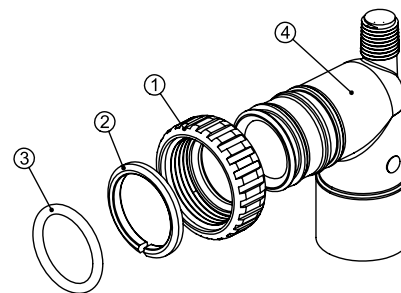
Item No.	Part No.	Description	Qty.
1	CH4655	474 0.5 gpm flow control	1
2	CH3163	o-ring 019	1
3	CH4613	3/8" elbow cap	1
	CH4612	1/2" elbow cap	
4	CH4615	elbow locking clip	1
5	CJCPG-5PBLK	3/8" compression nut	1
	CJCPG-8PBLK	1/2" compression nut	
6	FP10332	poly-tube insert	1

Installation Fitting Assemblies:



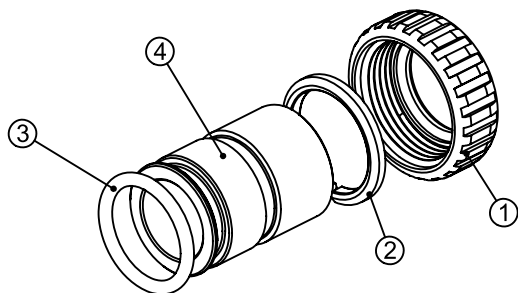
1" PVC MALE NPT ELBOW ASSEMBLY (CV3007)

Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3149	fitting	1



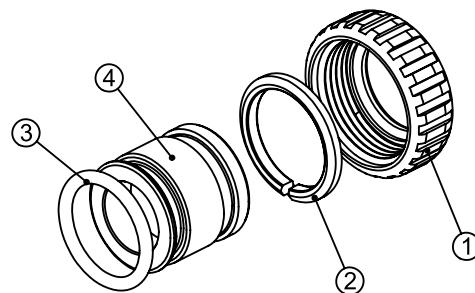
3/4" AND 1" PVC SOLVENT ELBOW ASSEMBLY (CV3007-01)

Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3189	fitting	1



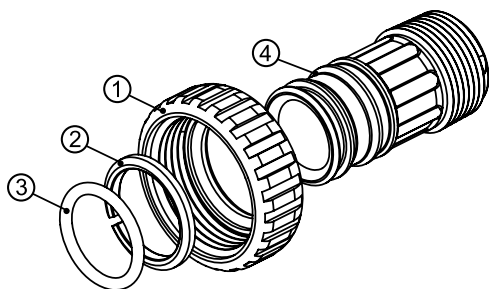
1" BRASS SWEAT ASSEMBLY (CV3007-02)

Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3188	fitting	1



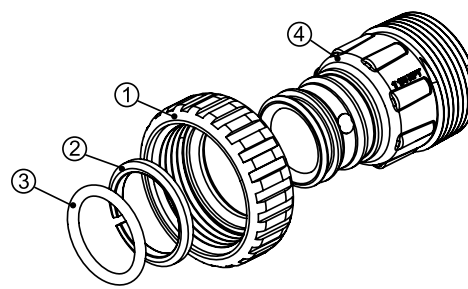
3/4" BRASS SWEAT ASSEMBLY (CV3007-03)

Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3188-01	fitting	1



1" PVC MALE NPT ASSEMBLY (CV3007-04)

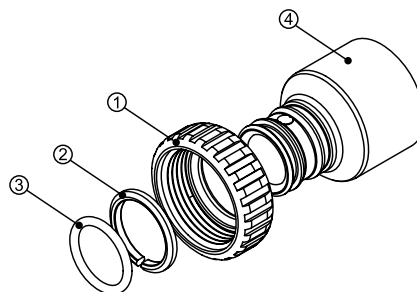
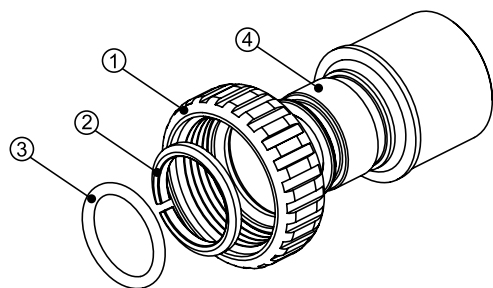
Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3164	fitting	1



1/4" PLASTIC MALE ASSEMBLY (CV3007-05)

Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3317	fitting	1

Installation Fitting Assemblies:

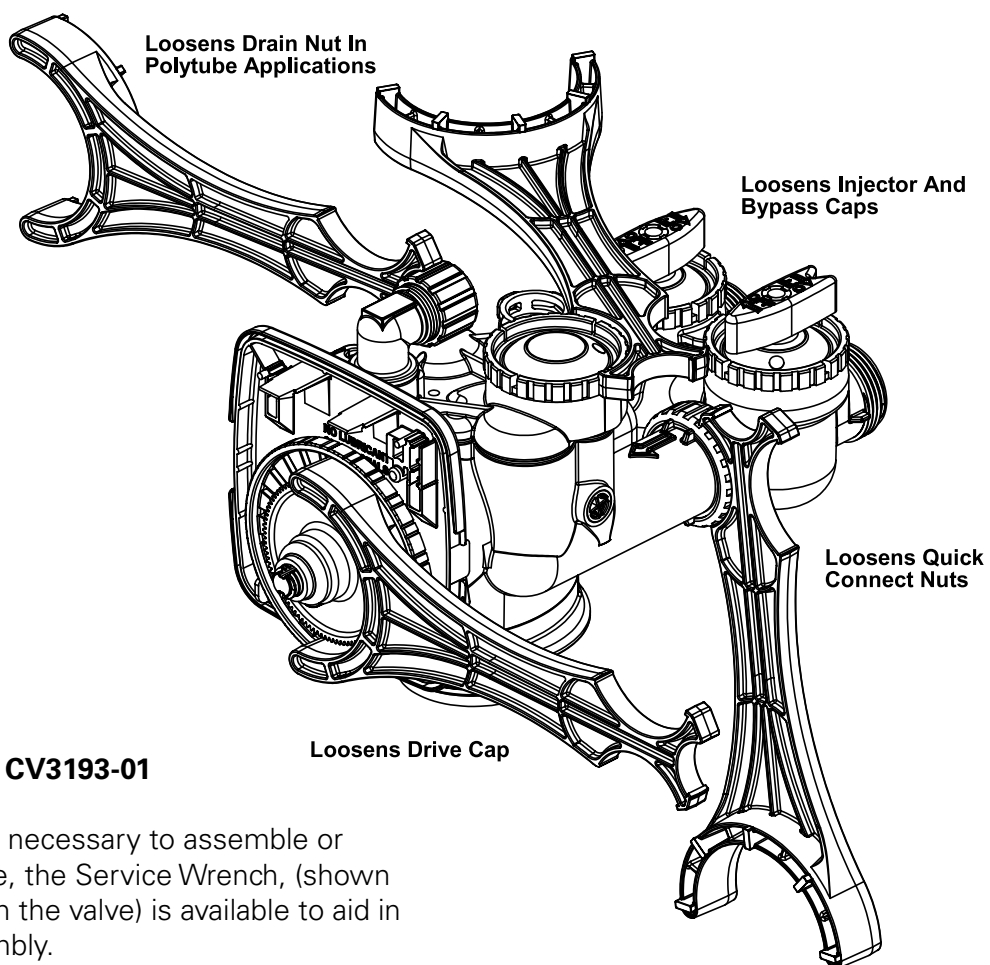


1 1/4" AND 1 1/2" BRASS SWEAT ASSEMBLY (CV3007-09)

Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3375	fitting	1

1 1/4" AND 1 1/2" PVC SOLVENT ASSEMBLY (CV3007-07)

Item No.	Part No.	Description	Qty.
1	CV3151	nut, 1" quick connect	1
2	CV3150	split ring	1
3	CV3105	o-ring 215	1
4	CV3352	fitting	1



SERVICE WRENCH - CV3193-01

Although no tools are necessary to assemble or disassemble the valve, the Service Wrench, (shown in various positions on the valve) is available to aid in assembly or disassembly.

Specifications:

MODEL		AWP1054SE1		AWP1354SE1		AWP1465SE1		AWP1665SE1		AWP1054SE2		AWP1354SE2		AWP1465SE2		AWP1665SE2		
		*AWP1054SE1-HS	*AWP1054SE1-LS	*AWP1354SE1-HS	*AWP1354SE1-LS	*AWP1465SE1-HS	*AWP1465SE1-LS	*AWP1665SE1-HS	*AWP1665SE1-LS	*AWP1054SE2-HS	*AWP1054SE2-LS	*AWP1354SE2-HS	*AWP1354SE2-LS	*AWP1465SE2-HS	*AWP1465SE2-LS	*AWP1665SE2-HS	*AWP1665SE2-LS	
¹Capacity: (Grains/lbs NACL)	Maximum	22600 @ 15.9	36900 @ 21.2	52000 @ 30.0	67000 @ 9.0	34800 @ 15.9	60300 @ 26.5	84000 @ 37.0	108000 @ 48.0	20700 @ 12.4	33600 @ 15.9	47000 @ 22.0	60000 @ 29.0	32000 @ 12.4	48300 @ 15.9	68000 @ 22.0	87000 @ 29.0	
	Medium	20700 @ 12.4	33600 @ 15.9	47000 @ 22.0	60000 @ 29.0	32000 @ 12.4	48300 @ 15.9	68000 @ 22.0	87000 @ 29.0	16400 @ 6.1	28300 @ 9.5	40000 @ 13.0	51000 @ 17.0	22900 @ 6.1	28200 @ 9.3	40000 @ 13.0	51000 @ 17.0	
	Minimum	16400 @ 6.1	28300 @ 9.5	40000 @ 13.0	51000 @ 17.0	22900 @ 6.1	28200 @ 9.3	40000 @ 13.0	51000 @ 17.0	3000	3000	3000	3000	3800	3000	3100	3000	
Efficiency (grains/lb) at Lowest Setting		2700	3100	3100	3000	3800	3000	3000	3000	0.04 m³ (1.5 ft³)	0.07 m³ (2.5 ft³)	0.07 m³ (2.5 ft³)	0.10 m³ (3.5 ft³)	0.04 m³ (1.5 ft³)	0.07 m³ (2.5 ft³)	0.10 m³ (3.5 ft³)	0.13 m³ (4.5 ft³)	
Amount of Media		0.04 m³ (1.5 ft³)	0.07 m³ (2.5 ft³)	0.10 m³ (3.5 ft³)	0.13 m³ (4.5 ft³)	0.04 m³ (1.5 ft³)	0.07 m³ (2.5 ft³)	0.10 m³ (3.5 ft³)	0.13 m³ (4.5 ft³)	0.04 m³ (1.5 ft³)	0.07 m³ (2.5 ft³)	0.07 m³ (2.5 ft³)	0.10 m³ (3.5 ft³)	0.04 m³ (1.5 ft³)	0.07 m³ (2.5 ft³)	0.10 m³ (3.5 ft³)	0.13 m³ (4.5 ft³)	
Maximum Water Hardness		30 gpg	40 gpg	50 gpg	50 gpg	60 gpg	80 gpg	80 gpg	80 gpg	10.0 ppm	15.0 ppm	15.0 ppm	15.0 ppm	10.0 ppm	15.0 ppm	15.0 ppm	15.0 ppm	
²Maximum Iron		10.0 ppm	15.0 ppm	15.0 ppm	15.0 ppm	10.0 ppm	15.0 ppm	15.0 ppm	15.0 ppm	10.0 ppm	15.0 ppm	15.0 ppm	15.0 ppm	10.0 ppm	15.0 ppm	15.0 ppm	15.0 ppm	
Minimum pH Required		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
Total pH Adjusted		252	432	580	730	252	432	580	730	252	432	580	730	252	432	580	730	
³Peak Flow Rate @ 15 psid		64.4 lpm (170 gpm)	71.9 lpm (19.0 gpm)	71.9 lpm (19.0 gpm)	71.9 lpm (19.0 gpm)	64.4 lpm (170 gpm)	71.9 lpm (19.0 gpm)	71.9 lpm (19.0 gpm)	71.9 lpm (19.0 gpm)	30.3 lpm (8.0 gpm)	34.1 lpm (9.0 gpm)	34.1 lpm (9.0 gpm)	37.9 lpm (10.0 gpm)	30.3 lpm (8.0 gpm)	34.1 lpm (9.0 gpm)	37.9 lpm (10.0 gpm)	41.6 lpm (11.0 gpm)	
Continuous Flow Rate @ 5 psid		30.3 lpm (8.0 gpm)	34.1 lpm (9.0 gpm)	37.9 lpm (10.0 gpm)	41.6 lpm (11.0 gpm)	30.3 lpm (8.0 gpm)	34.1 lpm (9.0 gpm)	37.9 lpm (10.0 gpm)	41.6 lpm (11.0 gpm)	25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	
Water Pressure Range		25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	25-100 psi	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	
Water Temperature		0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	0.5-37.7°C (33-100°F)	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	
Electrical Voltage		110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	110V/50-60Hz	3/4" brass	3/4" brass	3/4" brass	3/4" brass	3/4" brass	3/4" brass	1" brass	1" brass	
Pipe Size		3/4" brass	3/4" brass	1" brass	1" brass	3/4" brass	3/4" brass	1" brass	1" brass	3/4" brass	3/4" brass	3/4" brass	3/4" brass	3/4" brass	3/4" brass	1" brass	1" brass	
Overall Dimension	Media Tank & Valve (width x height)	25.4 cm x 157.5 cm (10" x 62")	33 cm x 157.5 cm (13" x 62")	35.3 cm x 185.4 cm (14" x 73")	40.6 cm x 185.4 cm (16" x 73")	25.4 cm x 157.5 cm (10" x 62")	33 cm x 157.5 cm (13" x 62")	35.3 cm x 185.4 cm (14" x 73")	40.6 cm x 185.4 cm (16" x 73")	45.7 cm x 91.4 cm (18" x 36")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 91.4 cm (18" x 36")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	
	Brine Tank (width x height)	45.7 cm x 91.4 cm (18" x 36")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 91.4 cm (18" x 36")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	45.7 cm x 102 cm (18" x 40")	63.5 kg (140 lbs)	99.8 kg (220 lbs)	116.3 kg (256 lbs)	141.4 kg (311 lbs)	63.5 kg (140 lbs)	99.8 kg (220 lbs)	116.3 kg (256 lbs)	141.4 kg (311 lbs)	
Shipping Weight	SE Systems	63.5 kg (140 lbs)	99.8 kg (220 lbs)	116.3 kg (256 lbs)	141.4 kg (311 lbs)	63.5 kg (140 lbs)	99.8 kg (220 lbs)	116.3 kg (256 lbs)	141.4 kg (311 lbs)	70.7 kg (156 lbs)	109.3 kg (241 lbs)	129.1 kg (284 lbs)	157.3 kg (346 lbs)	70.7 kg (156 lbs)	109.3 kg (241 lbs)	129.1 kg (284 lbs)	157.3 kg (346 lbs)	
	SE-HS Systems	70.7 kg (156 lbs)	109.3 kg (241 lbs)	129.1 kg (284 lbs)	157.3 kg (346 lbs)	70.7 kg (156 lbs)	109.3 kg (241 lbs)	129.1 kg (284 lbs)	157.3 kg (346 lbs)									129.1 kg (284 lbs)
* SULPHUR REDUCTION - For applications requiring the additional removal of Hydrogen Sulphide up to 1 ppm (sulphur or "rotten egg" smell), special systems (-HS) are available which include KDF media between the gravel underbed and the Crystal-Right® Zeolite.																		

* SULPHUR REDUCTION - For applications requiring the additional removal of Hydrogen Sulphide up to 1 ppm (sulphur or "rotten egg" smell), special systems (+HS) are available which include KDF media between the gravel underbed and the Crystal-Right® Zeolite.

¹ All Advanced Water Products Water Conditioners are factory pre-set at medium salting. Note: influent waters must be at least 3 gpg and have a minimum TDS of 80 ppm. A calcite or corxex unit may be needed for correct operation on acidic waters.

² Iron removal may vary depending on form of iron, pH and other local conditions. On waters that are pre-chlorinated or where other pre-oxidation occurs, an iron precipitate can form that is too small to be filtered.

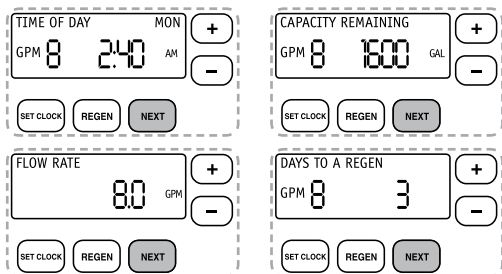
³ Unit not tested for capacity at these flow rates. Water quality may vary.

MODEL	AWP1054SE1			AWP1354SE1			AWP1465SE1			AWP1665SE1			AWP1054SE2			AWP1354SE2			AWP1465SE2			AWP1665SE2		
	*AWP1054SE1-HS			*AWP1354SE1-HS			*AWP1465SE1-HS			*AWP1665SE1-HS			*AWP1054SE2-HS			*AWP1354SE2-HS			*AWP1465SE2-HS			*AWP1665SE2-HS		
	MIN	GAL		MIN	GAL		MIN	GAL		MIN	GAL		MIN	GAL		MIN	GAL		MIN	GAL		MIN	GAL	
	12	48		12	84		12	108		12	120		12	48		12	84		12	108		12	120	
Backwash	90	36		90	72		90	92		90	103		90	36		90	72		90	92		90	103	
Brine & Rinse	4	16		4	28		4	36		4	40		4	14		4	20		4	36		4	40	
Rapid Rinse	9:56	5		11:53	6		15:51	8		19:56	10		9:56	5		11:53	6		15:51	8		19:56	10	
Brine Refill	116	105		118	190		122	244		116	273		116	97		118	158		122	244		116	273	
Total																								

Quick Reference Guide:

General Operation:

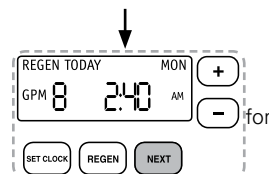
When the system is operating, one of four displays will be shown: **"TIME OF DAY/GPM"**, **"FLOW RATE"**, **"CAPACITY REMAINING"** or **"DAYS TO A REGEN"**. Pressing **NEXT** will toggle between the three choices.



Manual Regeneration:

Note: For softeners, if brine tank does not contain salt, fill with salt and wait at least two hours before regeneration. If you need to initiate a manual regeneration, either immediately, or the same night at the pre programmed time, regeneration (typically 2:00 AM), complete the following steps.

"REGEN TODAY" AND "TIME OF DAY" WILL FLASH ALTERNATELY IF A REGENERATION IS EXPECTED TONIGHT.



For Immediate Regeneration:

Press and hold **REGEN** until valve motor starts (typically 3 seconds).

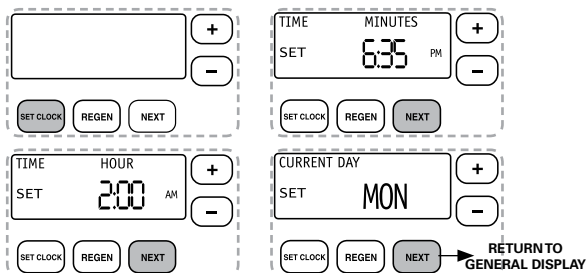
For Regeneration the same night:

Press and release **REGEN** (notice that flashing **"REGEN TODAY"** appears).

To Set Time of Day:

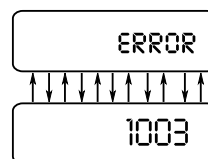
In the event of a prolonged power outage, time of day flashes, indicating that this needs to be reset. All other information will be stored in memory no matter how long the power outage.

1. Accessed by pressing **SET CLOCK**
2. Adjust hours with **+** and **-** buttons, **AM/PM** toggles at 12
3. Press **NEXT**
4. Adjust minutes with **+** and **-** buttons
5. Press **NEXT**
6. Adjust current day with **+** and **-** buttons
7. Press **NEXT** to complete and return to normal operation



Error:

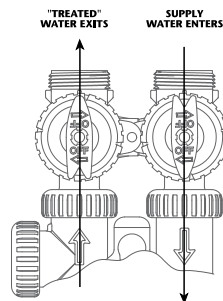
If the display toggles between **"ERROR"** and an error code (i.e. a number), call a service technician and report the error code.



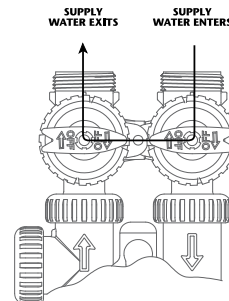
Bypass:

To shut off water to the system, position arrow handles as shown in the bypass operation diagram below. If your valve doesn't look like the diagram below, contact your service technician for instructions on how to shut off water.

NORMAL OPERATION



BYPASS OPERATION



Adjust Harness, Days Between Regeneration, Time of Regeneration and Alarm Buzzer:

For initial set-up or to make adjustments, please complete the following steps:

1. Accessed by pressing **NEXT** and **+** button simultaneously
2. Adjust hardness using **+** and **-** buttons
3. Press **NEXT**
4. Adjust days between regenerations using **+** and **-** buttons
5. Press **NEXT**
6. Adjust time of regeneration hour with **+** and **-** buttons, **"AM/PM"** toggles at 12:00.
7. Press **NEXT**
8. Adjust time of regeneration minutes with **+** and **-** buttons
9. Press **NEXT**
10. Turn alarm buzzer ON or OFF with **+** and **-** buttons
11. Press **NEXT** to complete and return to normal operation

