ORDER NO. V3034 • DESCRIPTION: WS1.5P MOTOR ALT VLV

HYDROCARBONS SUCH AS VASELINE®, PETROLEUM JELLY, KEROSENE, BENZENE, GASOLINE, ETC., WILL DAMAGE PRODUCTS THAT CONTAIN O-RINGS OR PLASTIC COMPONENTS. EXPOSURE TO SUCH HYDROCARBONS MAY CAUSE THE PRODUCTS TO LEAK. DO NOT USE CLACK CONTROL VALVE PRODUCT(S) ON WATER SUPPLIES THAT CONTAIN HYDROCARBONS SUCH AS KEROSENE, BENZENE, GASOLINE, ETC.

OPERATING PRESSURES: 20 PSI MINIMUM / 125 PSI MAXIMUM
OPERATING TEMPERATURES: 40°F MINIMUM / 110°F MAXIMUM

Installation/Service

Stack assembly should be installed with smooth side facing up toward the drive cap assembly.

Piston should be installed open end down. (See exploded view on the back of this page)

When installing the motor, compress and hold the spring clip, insert the motor gently meshing the gears together. Once motor is fully installed release the spring clip, then rotate the motor so that it engages with the motor retainer.

* Note - If motor gear does not mesh with the reduction gear gently pull back on motor, rotate slightly and reinstall.

If the control valve manual does not include instructions for setting up the software for Twin Tank Operation (ALT A and ALT b) or Separate Source (SEPS), please contact your local equipment supplier for current copies of the instructions.

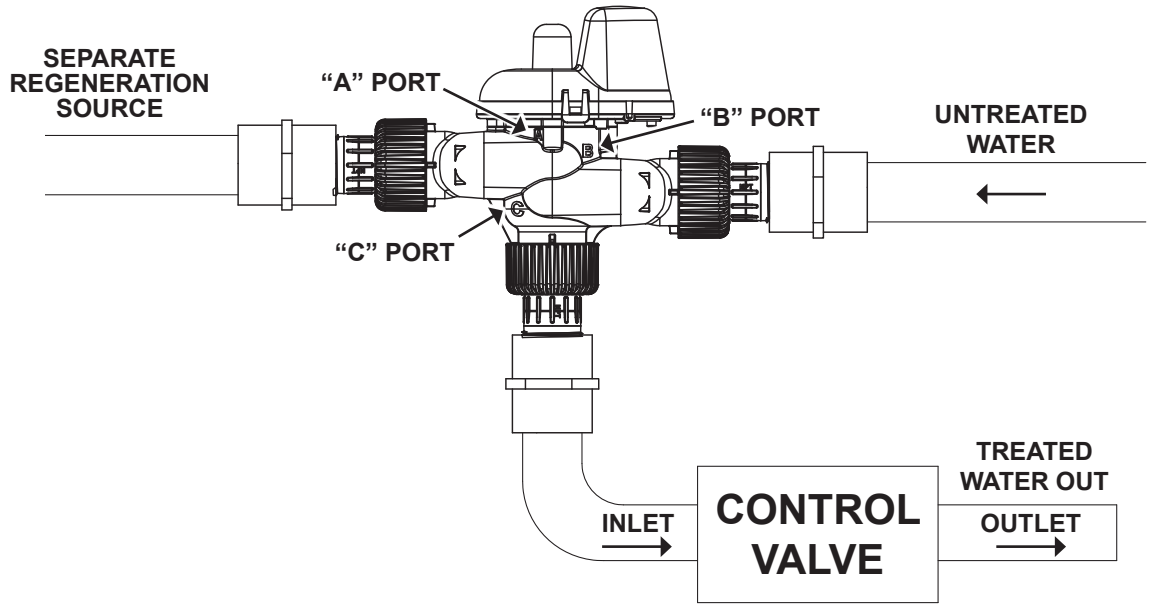
Cables can be sent throught the additional strain relief. To use, first remove the knock out, then break out the tab/ tabs in cable relief as needed.

- For twin tank operation, the interconnect cable must be sent through the back plates and connected to the three pin connector labeled COMM CABLE on both the ALT A and ALT b control valves.
- The alternator valve motor cable must be sent through the back plate and connected to the two pin connector labeled MAV on the control valve board.(for twin tank operation connect to ALT A).

Separate Source Regeneration:

The MAV will be driven closed (i.e. let water flow from A port to C port) before the first regeneration cycle and be driven open (i.e. let water flow from B port to C port) after the last regeneration cycle. If the control valve enters into an error during regeneration mode, the MAV will remain in its current state until the error is corrected and reset.

* Note If there is a treated water demand during regeneration, separate source water will be used.



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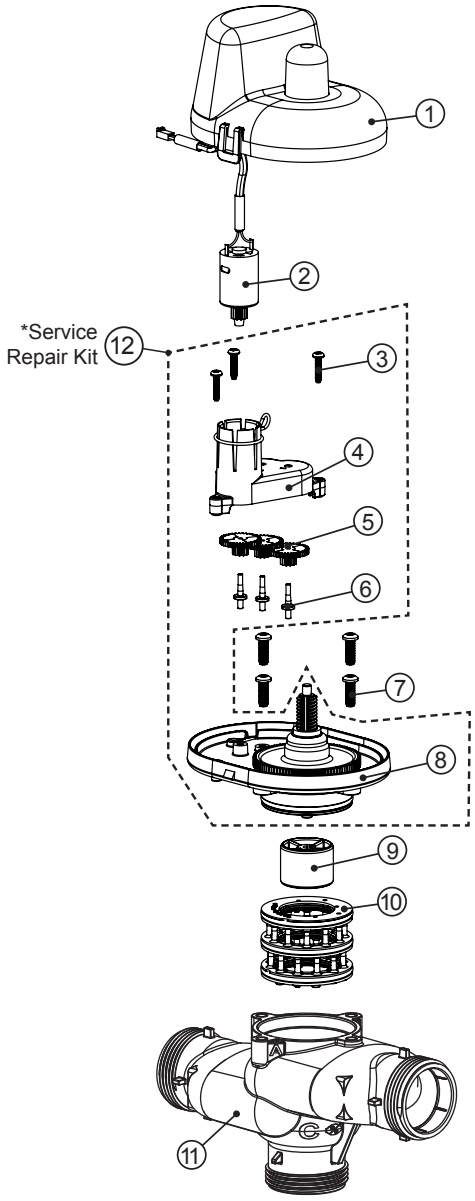
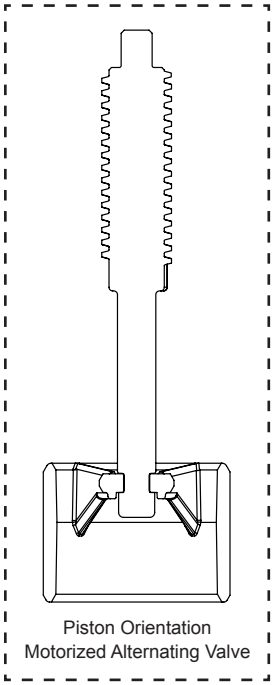
Drawing No.	Order No.	Description	Quantity
1	V3073	MAV/NOHWBY COVER ASY	1
2	V3476	WS MOTOR ASY 8 FT	1
3	V3592	SCREW #8-1 PHPN T-25 SS	3
4	V3262-01	WS REDUCTION GEAR COVER ASY	1
5	V3110-01	WS1 DRIVE REDUCING GEAR PLAIN	3
6	V3264	WS2 BYPASS REDUCTION GEAR AXLE	3
7	V3527	SCREW 1/4-20 X 1 BHSCS SS (5/32" HEX ALLEN WRENCH REQUIRED)	4
8	V3072	MAV/NOHWBY 1/125/15 DRIVE ASY	1
9	V3506-01	MAV/NOHRD 1/125/15 PISTON	1
10	V3074	MAV 1/125/15 STACK ASY	1
11	V4368	WS1.5P MAV BONDED BODY	1
Not Shown	V3474	WS ALT CONNECT CORD 8FT BLK	1
*12	V3042	WS1/1.25/1.5 MAV & NHWB SERVICE PACK	



•Operating Pressures:
20 PSI Minimum / 125 PSI Maximum
•Operating Temperatures:
40°F Minimum / 110°F Maximum

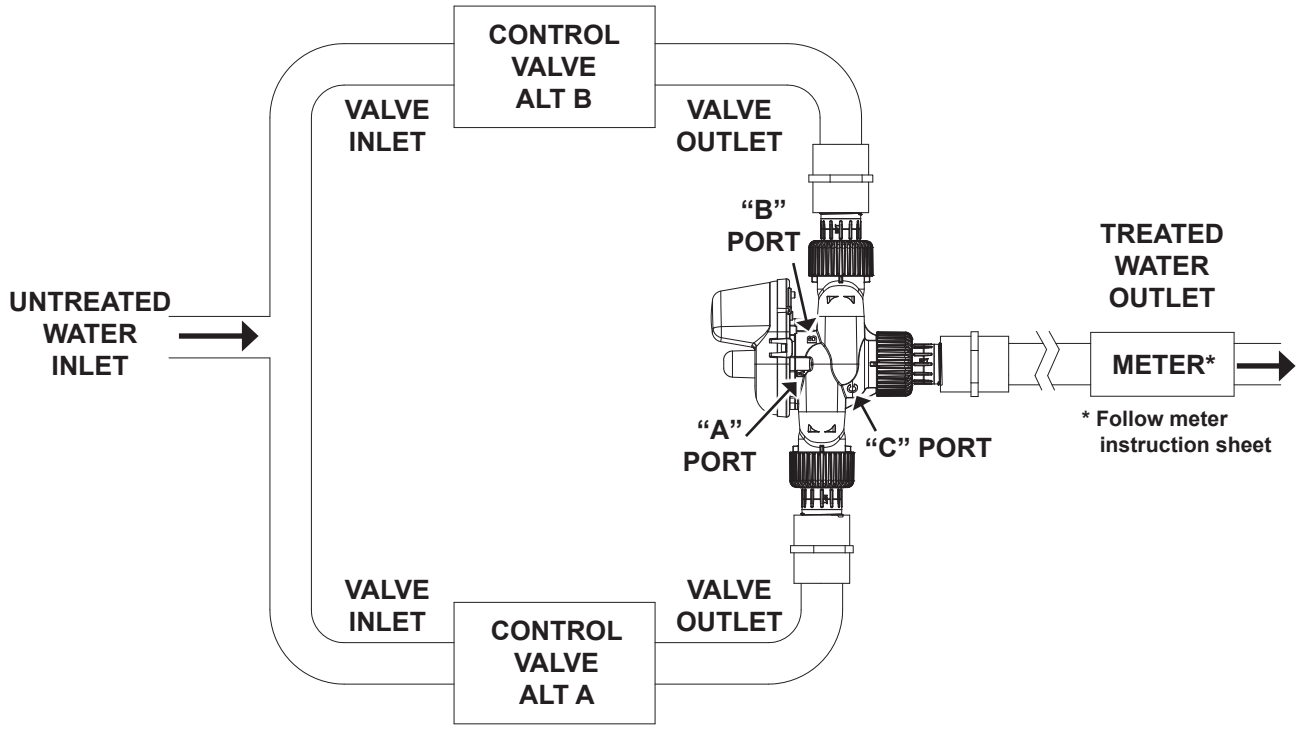


Piston Orientation
Motorized Alternating Valve

Certified to NSF/ANSI/CAN 61 and NSF/ANSI 372.

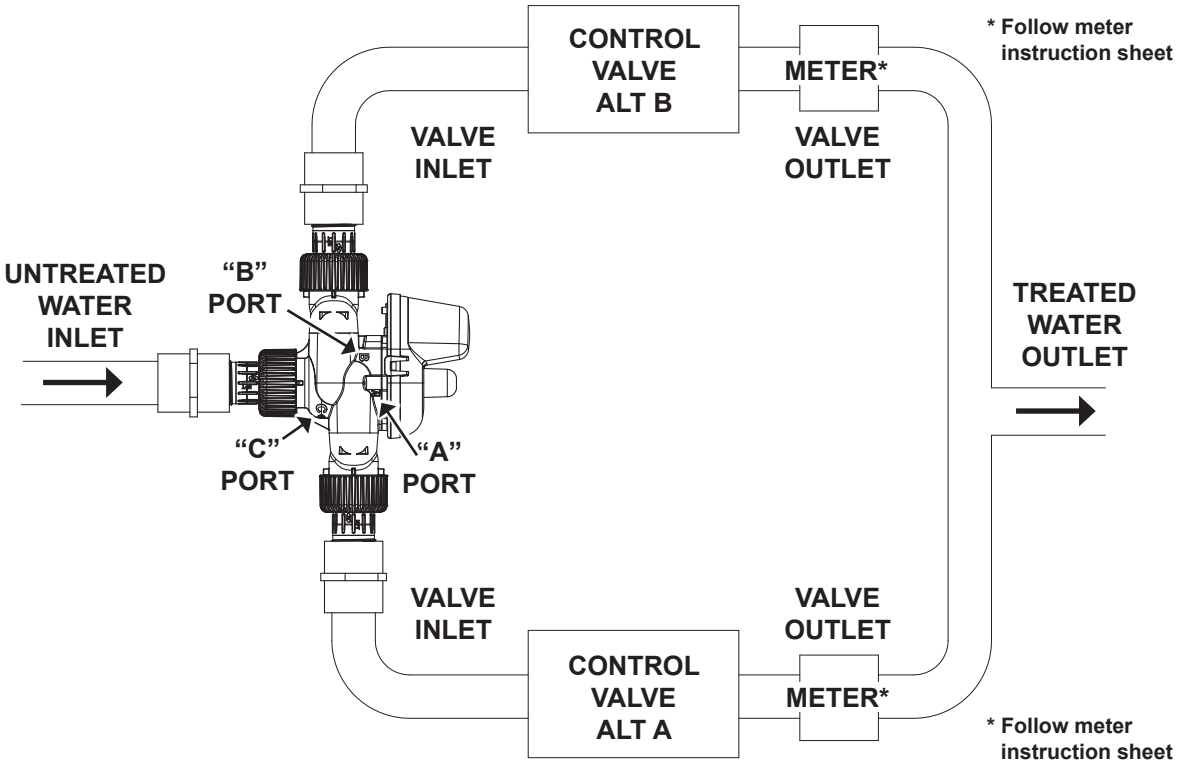
Twin Tank Alternator Configurations

REGENERATION WITH HARD WATER

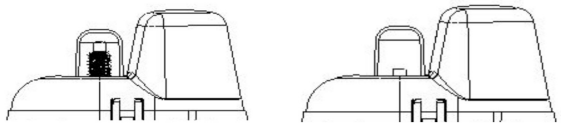


REGENERATION WITH SOFT WATER

Note: WS2 valve cannot be used in this type of installation.



Motorized Alternating Valve Configuration



	Plumbing Connections			Software Selection		Piston/Valve Position Flow	
	Port A	Port B	Port C	Control Valve 1	Control Valve 2	Up	Down
Twin Tank Alternator	From Control Valve 1	From Control Valve 2	To Outlet	ALTA	ALTb	Flows from Port B to Port C	Flows from Port A to Port C
Separate Source Operation	From Regeneration Source	From Normal Source	To Control Valve	SEPS		Flows from Port B to Port C	Flows from Port A to Port C

•Operating Pressures: 20 PSI Minimum / 125 PSI Maximum •Operating Temperatures: 40°F Minimum / 110°F Maximum