

LEAD FREE BRASS MOTORIZED ALTERNATING VALVE INSTALLATION GUIDE

V3071 MOTOR ALT VLV 1.5 NPT

V3076 MOTOR ALT VLV 2 NPT

V3083 MOTOR ALT VLV 3 NPT

V3071BSPT MOTOR ALT VLV 1.5 BSPT

V3076BSPT MOTOR ALT VLV 2 BSPT

V3083BSPT MOTOR ALT VLV 3 BSPT

WARNING: USE ONLY SILICONE-BASED LUBRICANTS ON ALL CLACK CORPORATION COMPONENTS
HYDROCARBONS WILL DAMAGE COMPONENTS THAT CONTAIN O-RINGS AND OR PLASTIC. THIS CAN CAUSE LEAKS OR BREAKAGE. DO NOT USE LUBRICANTS THAT CONTAIN HYDROCARBONS SUCH AS VASELINE®/ PETROLEUM JELLY, WD-40®, ETC. DO NOT USE CLACK CONTROL VALVE PRODUCTS ON WATER SUPPLIES THAT CONTAIN HYDROCARBONS, SUCH AS BENZENE, GASOLINE, KEROSENE, ETC.

OPERATING PRESSURES: 20 PSI - 125 PSI

OPERATING TEMPERATURES: 40°F - 110°F

PARTS INCLUDED:

MAV • MOTORIZED ALTERNATING VALVE

V3474 • WS ALT CONNECT CORD 8 FT BLK (1.5" and 2" Only)

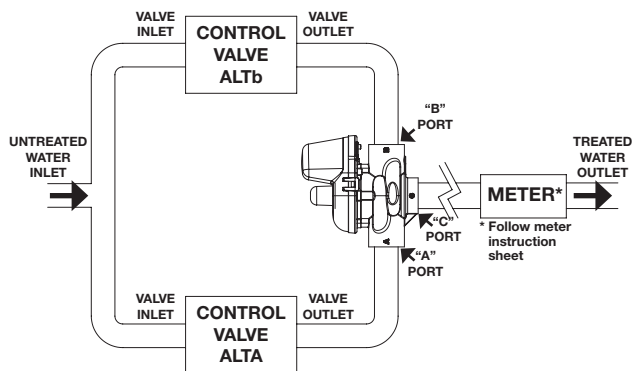
V3805 • STRAIN RELIEF COVER KIT (1.5" and 2" Only)

If the control valve manual does not include programming instructions for setting up Simple Twin Alternating (ALT A and ALT B), Separate Source (SEPS), or No Hard Water Bypass (NHBP), please contact your local equipment supplier for current instructions.

Cables: To bring in additional cables through the back plate, first locate the strain relief knockout on the inside of the back plate (lower-right side). Use a punch and hammer to remove the knockout. Remove one or both tabs in the strain relief on the back of the back plate with a needle nose pliers. Bring the additional cables through the knockout hole through the back plate and connect each cable to the proper location on the PCB. This will determine how much slacks needed in the cable before weaving into the strain relief. Once cables are weaved into the strain relief, use the V3805 strain relief cover kit (provided) and follow instructions for installation.

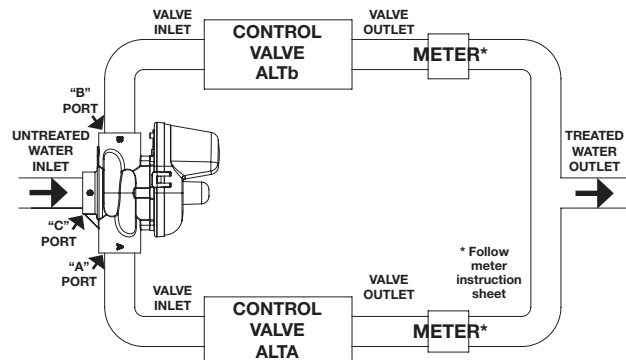
MAV—Simple Twin Alternator: This system allows one valve to be in service (online), while the second valve remains in standby (offline). Thread the V3474 Connect Cord through the back plate and connect to the PCB three-pin connector labeled COMM CABLE on each valve programmed ALT A and ALT B. Thread the MAV cable through the back plate and connect to the PCB two-pin connector labeled MAV on the valve programmed ALT A. If the control valve is in an error state during regeneration mode, the MAV will close the B port and keep open the A port until the errors corrected and reset.

REGENERATION WITH HARD WATER

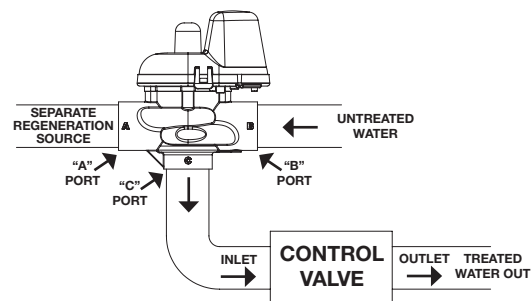


REGENERATION WITH SOFT WATER

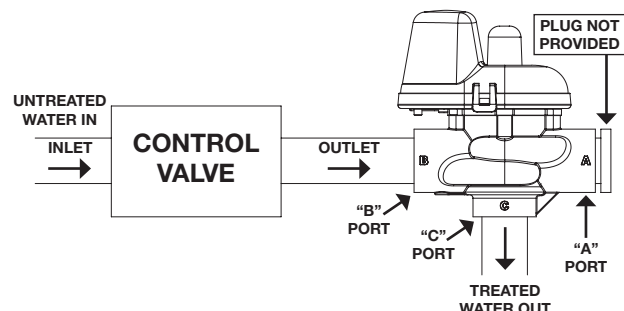
Note: WS2 and WS2QC valve cannot be used in this type of installation.



MAV—Separate Source Regeneration: This system allows a separate water source used for regeneration. When in Service Mode, the MAV will close water flow between the A port and C port (separate regeneration source) and open water flow between the B port and C port (untreated water). Thread the MAV cable through the back plate and connect to the PCB two-pin connector labeled MAV. Program the valve as SEPS. If the control valve enters an error during regeneration mode, the MAV will remain in its current state until the errors corrected and reset.



MAV—Convert to No Bypass Valve: To allow the MAV to operate as a No Hard Water Bypass, install a plug in the A port. This shuts off water to the outlet during regeneration. Thread the MAV cable through the back plate and connect to the PCB two-pin connector labeled MAV. Program the valve as NHBP. The MAV will close before the first regeneration cycle that is not FILL, SOFTENING, or FILTERING and open after the last regeneration cycle that is not FILL. If the control valve enters an error state during regeneration mode, the MAV will remain in its current state until the errors corrected and reset.



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1.5" MAV • V3071 and V3071BSPT			
Drawing No.	Order No.	Description	Qty.
1	V3073	MAV/NOHWBY COVER ASY	1
2	V3476	WS MOTOR ASY 8 FT	1
3	V3592	SCREW #8-3/4 PHPN T-25 SS	3
4	V3262-01	WS1.5&2ALT/2BY REDUCGEARCVASY	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 3/4 BHSCS SS	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	V3525-01	MAV BODY 1.5 NPT	1
	V3525BSPT-01	MAV BODY 1.5 BSPT	
12	V3042	WS1/1.25/1.5 MAV & NHWB SERVICE PACK	
Not Shown	V3474	WS ALT CONNECT CORD 8FT BLK	1
	V3805	STRAIN RELIEF COVER KIT	

2.0" MAV • V3076 and V3076BSPT			
Drawing No.	Order No.	Description	Qty.
1	V3073	MAV/NOHWBY COVER ASY	1
2	V3476	WS MOTOR ASY 8 FT	1
3	V3592	SCREW #8-3/4 PHPN T-25 SS	3
4	V3262-01	WS1.5&2ALT/2BY REDUCGEARCVASY	1
5	V3110-01	WS1 DRIVE REDUCING GEAR PLAIN	3
6	V3264	WS2 BYPASS REDUCTION GEAR AXLE	3
7	V3642	SCREW 1/4-20 X 1 1/4 BHSCS SS	4
8	V3078	MAV/NOHWBY 2 DRIVE ASY	1
9	V3634-01	MAV/NOHWBY 2 PISTON	1
10	V3077	WS2 MAV STACK ASSEMBLY	1
11	V3633-01	WS2 MAV BODY NPT	1
	V3633-01BSPT	WS2 MAV BODY BSPT	
12	V3043	WS2 MAV & NHWB SERVICE PACK	
Not Shown	V3474	WS ALT CONNECT CORD 8FT BLK	1
	V3805	STRAIN RELIEF COVER KIT	

3.0" MAV • V3083 & V3083BSPT			
Drawing No.	Order No.	Description	Qty.
1	V3696	WS3 MAV COVER	1
2	V3476	WS MOTOR ASY 8 FT	1
3	V3592	SCREW #8-3/4 PHPN T-25 SS	3
4	V3262-01	WS1.5&2ALT/2BY REDUCGEARCVASY	1
5	V3110-01	WS1 DRIVE REDUCING GEAR PLAIN	3
6	V3264	WS2 BYPASS REDUCTION GEAR AXLE	3
7	V3789	SCREW 3/8-16 X 1.75 BHCS SS	4
8	V3085	WS3 MAV DRIVE CAP ASY	1
9	V3695-01	WS3 MAV PISTON	1
10	V3084	MAV/STACK ASY 3"	1
11	V3693-01	WS3 MAV BODY NPT	1
	V3693BSPT-01	WS3 MAV BODY BSPT	
12	N/A	N/A	

