

STAINLESS STEEL AND LEAD-FREE BRASS NO HARD WATER BYPASS VALVE INSTALLATION GUIDE

V3097	NO HARDWATERBYPASS 15INMXF NPT
V3097BSPT	NO HARDWATERBYPASS 15INMXF BSPT
V3098	NO HARDWATERBYPASS 2INMXF NPT
V3098BSPT	NO HARDWATERBYPASS 2INMXF BSPT
V3099	NO HARDWATERBYPASS 3INMXF NPT
V3099BSPT	NO HARDWATERBYPASS 3INMXF 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

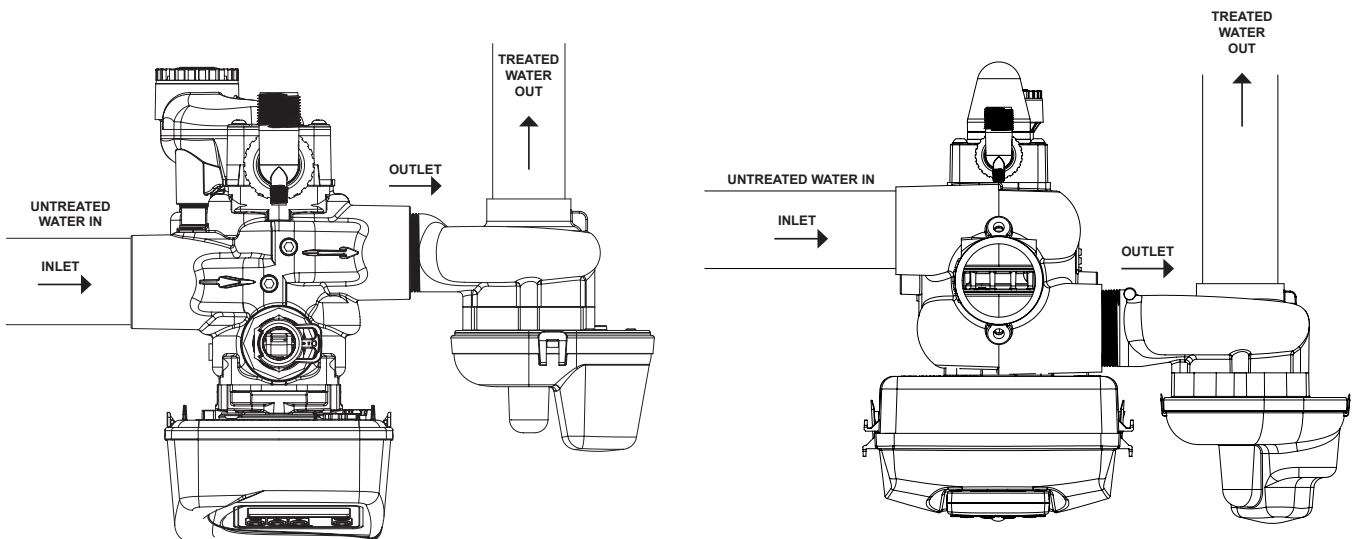
PARTS INCLUDED:

NBV • NO BYPASS VALVE
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.

NBV—No Hard Water Bypass Valve: This will shut off water to the outlet during regeneration. Thread the NBV cable through the backplate and connect to the PCB two-pin connector labeled MAV or Bypass. Program the valve as NHBP. The NBV 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 NBV will remain in its current state until the errors corrected and reset.



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1.5" NBV • V3097 & V3097BSPT			
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	V3886	WS15 NHWBY STACK ASY	1
11	V3832-01	WS15 NHWBY BODY M X F NPT	1
	V3832BSPT-01	WS15 NHWBY BODY M X F BSPT	
12	V3042	WS1/1.25/1.5 MAV & NHWB SERVICE PACK	-
Not Shown	V3805	STRAIN RELIEF COVER KIT	1

2.0" NBV • V3098 & V3098BSPT			
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	V3887	WS2 NHWBY STACK ASY	1
11	V3828-01	WS2 NHWBY BODY M X F NPT	1
	V3828-01BSPT	WS2 NHWBY BODY M X F BSPT	
12	V3043	WS2 MAV & NHWB SERVICE PACK	-
Not Shown	V3805	STRAIN RELIEF COVER KIT	1

3.0" NBV • V3099 & V3099BSPT			
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	V3527	SCREW 1/4-20 X 1 1/4 BHSCS SS	4
8	V3085	WS3 MAV DRIVE CAP	1
9	V3695-01	WS3 MAV PISTON	1
10	V3084	WS3 MAV STACK ASY	1
11	V3830-01	WS3 NHWBY M X F BODY NPT	1
	V3830BSPT-01	WS3 NHWBY M X F BODY BSPT	
12	N/A	N/A	-

