



FLECK 2900S

SERVICE MANUAL



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CALIFORNIA PROPOSITION 65 WARNING

⚠️ WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

JOB SPECIFICATION SHEET

Job Number: _____

Model Number: _____

Water Hardness: _____ ppm or gpg

Capacity Per Unit: _____

Mineral Tank Size: _____ Diameter: _____ Height: _____

Salt Setting per Regeneration: _____

1. Type of Timer:

- A. 7 Day or 12 Day
- B. Meter Initiated

2. Downflow: Upflow Upflow Variable

3. Meter Size:

- A. 3/4-inch Std Range (125 - 2,100 gallon setting)
- B. 3/4-inch Ext Range (625 - 10,625 gallon setting)
- C. 1-inch Std Range (310 - 5,270 gallon setting)
- D. 1-inch Ext Range (1,150 - 26,350 gallon setting)
- E. 1-1/2 inch Std Range (625 - 10,625 gallon setting)
- F. 1-1/2 inch Ext Range (3,125 - 53,125 gallon setting)
- G. 2-inch Std Range (1,250 - 21,250 gallon setting)
- H. 2-inch Ext Range (6,250 - 106,250 gallon setting)
- I. 3-inch Std Range (3,750 - 63,750 gallon setting)
- J. 3-inch Ext Range (18,750 - 318,750 gallon setting)
- K. Electronic _____ Pulse Count _____ Meter Size _____

4. System Type:

- A. System #4: 1 Tank, 1 Meter, Immediate, or Delayed Regeneration
- B. System #4: Time Clock
- C. System #4: Twin Tank
- D. System #5: 2-5 Tanks, Interlock Mechanical
2-4 Tanks, Interlock Electronic
Meter per unit for Mechanical and Electronic
- E. System #6: 2-5 Tanks, 1 Meter, Series Regeneration, Mechanical
2-4 Tanks, 1 Meter, Series Regeneration, Electronic
- F. System #7: 2-5 Tanks, 1 Meter, Alternating
Regeneration, Mechanical
2 Tanks only, 1 Meter, Alternating
Regeneration, Electronic
- G. System #9: Electronic Only, 2-4 Tanks, Meter per Valve, Alternating
- H. System #14: Electronic Only, 2-4 Tanks, Meter per Valve.
Brings units on and offline based on flow.

5. Timer Program Settings:

- A. Backwash: _____ Minutes
- B. Brine and Slow Rinse: _____ Minutes
- C. Rapid Rinse: _____ Minutes
- D. Brine Tank Refill: _____ Minutes
- E. Pause Time: _____ Minutes
- F. Second Backwash: _____ Minutes

6. Drain Line Flow Control: gpm

7. Brine Line Flow Controller: gpm

8. Injector Size#:

9. Piston Type:

- A. Hard Water Bypass
- B. No Hard Water Bypass

INSTALLATION

Water Pressure

A minimum of 20 pounds (1.4 bar) of water pressure is required for regeneration valve to operate effectively.

Electrical Facilities

An uninterrupted alternating current (A/C) supply is required.

NOTE: Other voltages are available. Please make sure your voltage supply is compatible with your unit before installation.

Existing Plumbing

Condition of existing plumbing should be free from lime and iron buildup. Piping that is built up heavily with lime and/or iron should be replaced. If piping is clogged with iron, a separate iron filter unit should be installed ahead of the water softener.

Location Of Softener And Drain

The softener should be located close to a drain to prevent air breaks and back flow.

Bypass Valves

Always provide for the installation of a bypass valve if unit is not equipped with one.

CAUTION Water pressure is not to exceed 125 psi (8.6 bar), water temperature is not to exceed 110°F (43°C), and the unit cannot be subjected to freezing conditions.

Installation Instructions

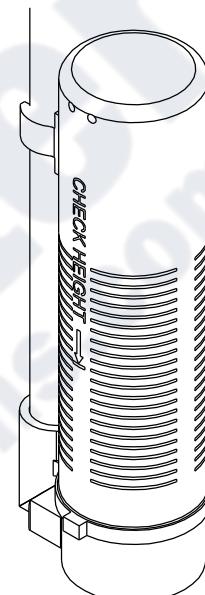
1. Place the softener tank where you want to install the unit making sure the unit is level and on a firm base.
2. During cold weather, the installer should warm the valve to room temperature before operating.
3. All plumbing should be done in accordance with local plumbing codes. The pipe size for residential drain line should be a minimum of 1/2-inch (13 mm). Backwash flow rates in excess of 7 gpm (26.5 Lpm) or length in excess of 20 feet (6 m) require 3/4-inch (19 mm) drain line. Commercial drain lines should be the same size as the drain line flow control.
4. Refer to the dimensional drawing for cutting height of the distributor tube. If there is no dimensional drawing, cut the distributor tube flush with the top of the tank.
5. Lubricate the distributor o-ring seal and tank o-ring seal. Place the main control valve on tank.

NOTE: Only use silicone lubricant.

6. Solder joints near the drain must be done prior to connecting the Drain Line Flow Control fitting (DLFC). Leave at least 6 inches (15 cm) between the DLFC and solder joints when soldering pipes that are connected on the DLFC. Failure to do this could cause interior damage to the DLFC.
7. Plumber tape is the only sealant to be used on the drain fitting. The drain from twin tank units may be run through a common line.
8. Make sure that the floor is clean beneath the salt storage tank and that it is level.

9. Place approximately 1 inch (25 mm) of water above the grid plate. If a grid is not utilized, fill to the top of the air check [Figure 1] in the salt tank. Do not add salt to the brine tank at this time.
10. On units with a by-pass, place in by-pass position. Turn on the main water supply. Open a cold soft water tap nearby and let run a few minutes or until the system is free from foreign material (usually solder) that may have resulted from the installation. Once clean, close the water tap.
11. Slowly place the by-pass in service position and let water flow into the mineral tank. When water flow stops, slowly open a cold water tap nearby and let run until the air is purged from the unit.
12. Plug unit into an electrical outlet.

NOTE: All electrical connections must be connected according to local codes. Be certain the outlet is uninterrupted.



60002 Rev E

Figure 1 Residential Air Check Valve

START-UP INSTRUCTIONS

The water softener should be installed with the inlet, outlet, and drain connections made in accordance with the manufacturer's recommendations, and to meet applicable plumbing codes.

1. Turn the manual regeneration knob slowly in a clockwise direction until the program micro switch lifts on top of the first set of pins. Allow the drive motor to move the piston to the first regeneration step and stop. Each time the program switch position changes, the valve will advance to the next regeneration step. Always allow the motor to stop before moving to the next set of pins or spaces.

NOTE: For electronic valves, please refer to the manual regeneration part of the timer operation section. If the valve came with a separate electronic timer service manual, refer to the timer operation section of the electronic timer service manual.

2. Position the valve to backwash. Ensure the drain line flow remains steady for 10 minutes or until the water runs clear (see above).
3. Position the valve to the brine / slow rinse position. Ensure the unit is drawing water from the brine tank (this step may need to be repeated).

STARTUP INSTRUCTIONS CONTINUED

4. Position the valve to the rapid rinse position. Check the drain line flow, and run for 5 minutes or until the water runs clear.
5. Position the valve to the start of the brine tank fill cycle. Ensure water goes into the brine tank at the desired rate. The brine valve drive cam will hold the valve in this position to fill the brine tank for the first regeneration.
6. Replace control box cover.
7. Put salt in the brine tank.

NOTE: Do not use granulated or rock salt.

3200 TIMER SETTING PROCEDURE

How To Set Days On Which Water Conditioner Is To Regenerate (Figure 2)

Rotate the skipper wheel until the number "1" is at the red pointer. Set the days that regeneration is to occur by sliding tabs on the skipper wheel outward to expose trip fingers. Each tab is one day. Finger at red pointer is tonight. Moving clockwise from the red pointer, extend or retract fingers to obtain the desired regeneration schedule.

How To Set The Time Of Day

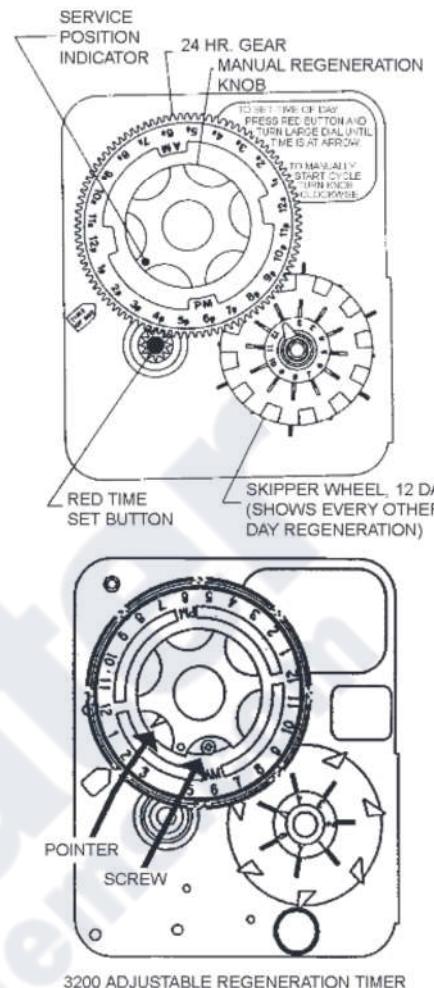
1. Press and hold the red button in to disengage the drive gear.
2. Turn the large gear until the actual time of day is at the time of day pointer.
3. Release the red button to again engage the drive gear.

How To Manually Regenerate Your Water Conditioner At Any Time

1. Turn the manual regeneration knob clockwise.
2. This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.
3. The black center knob will make one revolution in the following approximately three hours and stop in the position shown in the drawing.
4. Even though it takes three hours for this center knob to complete one revolution, the regeneration cycle of your unit might be set for only one half of this time.
5. In any event, conditioned water may be drawn after rinse water stops flowing from the water conditioner drain line.

How to Adjust Regeneration Time

1. Disconnect the power source.
2. Locate the three screws behind the manual regeneration knob by pushing the red button in and rotating the 24 hour dial until each screw appears in the cut out portion of the manual regeneration knob.
3. Loosen each screw slightly to release the pressure on the time plate from the 24-hour gear.
4. Locate the regeneration time pointer on the inside of the 24 hour dial in the cut out.
5. Turn the time plate so the desired regeneration time aligns next to the raised arrow.
6. Push the red button in and rotate the 24 hour dial. Tighten each of the three screws.
7. Push the red button and locate the pointer one more time to ensure the desired regeneration time is correct.
8. Reset the time of day and restore power to the unit.



3200 ADJUSTABLE REGENERATION TIMER

IMPORTANT!
SALT LEVEL MUST ALWAYS BE ABOVE
WATER LEVEL IN BRINE TANK

61502-3200 Rev A

Figure 2

3210 & 3220 TIMER SETTING PROCEDURE

Typical Programming Procedure

Calculate the gallon capacity of the system, subtract the necessary reserve requirement and set the gallons available opposite the small white dot on the program wheel gear (Figure 3).

NOTE: Drawing shows 8,750 gallon setting. The capacity (gallons) arrow (15) shows zero gallons remaining. The unit will regenerate tonight at the set regeneration time.

How To Set The Time Of Day

1. Press and hold the red button in to disengage the drive gear.
2. Turn the large gear until the actual time of day is opposite the time of day pointer.
3. Release the red button to again engage the drive gear.

How To Manually Regenerate Your Water Conditioner At Any Time

1. Turn the manual regeneration knob clockwise.
2. This slight movement of the manual regeneration knob engages the program wheel and starts the regeneration program.

3210 & 3220 TIMER SETTING

PROCEDURE CONTINUED

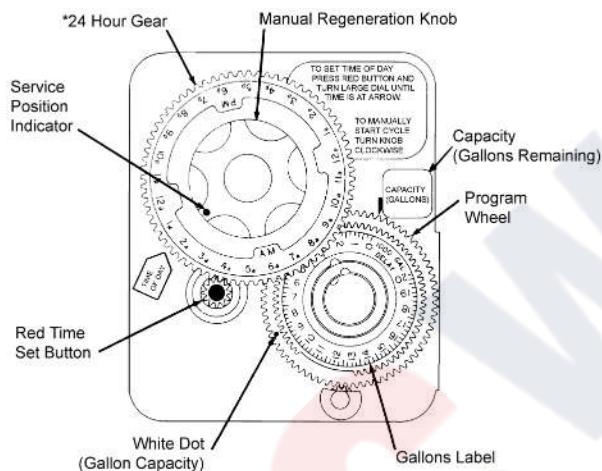
3. The black center knob will make one revolution in the following approximately three hours and stop in the position shown in the drawing.
4. Even though it takes three hours for this center knob to complete one revolution, the regeneration cycle of your unit might be set for only one half of this time.
5. In any event, conditioned water may be drawn after rinse water stops flowing from the water conditioner drain line.

Immediate Regeneration Timers

These timers do not have a 24 hour gear. Setting the gallons on the program wheel and manual regeneration procedure are the same as previous instructions. The timer will regenerate as soon as the capacity gallons reaches zero.

NOTE: The program wheel to the left may be different than the program wheel on the product.

NOTE: To set meter capacity rotate manual knob one - 360° revolution to set gallonage.



*Immediate regeneration timers do not have a 24-hour gear. No time of day can be set.

61502-3200 Rev A

Figure 3

3200, 3210, 3220, 3230 REGENERATION CYCLE SETTING PROCEDURE

How To Set The Regeneration Cycle Program

The regeneration cycle program on your water conditioner has been factory preset, however, portions of the cycle or program may be lengthened or shortened in time to suit local conditions.

3200 Series Timers (Figure 4)

1. To expose cycle program wheel, grasp timer in upper left-hand corner and pull, releasing snap retainer and swinging timer to the right.
2. To change the regeneration cycle program, the program wheel must be removed. Grasp program wheel and squeeze protruding lugs toward center, lift program wheel off timer. Switch arms may require movement to facilitate removal.
3. Return timer to closed position engaging snap retainer in back plate. Make certain all electrical wires locate above snap retainer post.

Timer Setting Procedure

How To Change The Length Of The Backwash Time

The program wheel as shown in the drawing is in the service position. As you look at the numbered side of the program wheel, the group of pins starting at zero determines the length of time your unit will backwash.

For example, if there are six pins in this section, the time of backwash will be 12 min. (2 min. per pin). To change the length of backwash time, add or remove pins as required. The number of pins times two equals the backwash time in minutes.

How To Change The Length Of Brine And Rinse Time

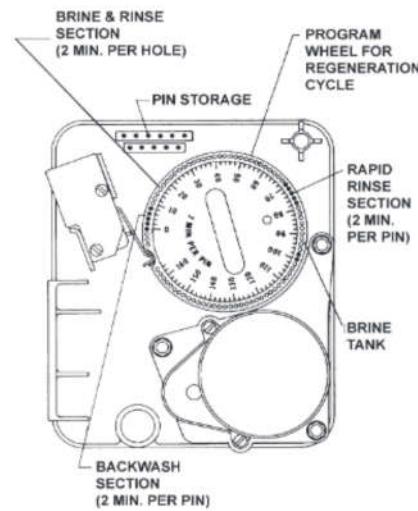
1. The group of holes between the last pin in the backwash section and the second group of pins determines the length of time that your unit will brine and rinse (2 min. per hole).
2. To change the length of brine and rinse time, move the rapid rinse group of pins to give more or fewer holes in the brine and rinse section. Number of holes times two equals brine and rinse time in minutes.

How To Change The Length Of Rapid Rinse

1. The second group of pins on the program wheel determines the length of time that your water conditioner will rapid rinse (2 min. per pin).
2. To change the length of rapid rinse time, add or remove pins at the higher numbered end of this section as required. The number of pins times two equals the rapid rinse time in minutes.

How To Change The Length Of Brine Tank Refill Time

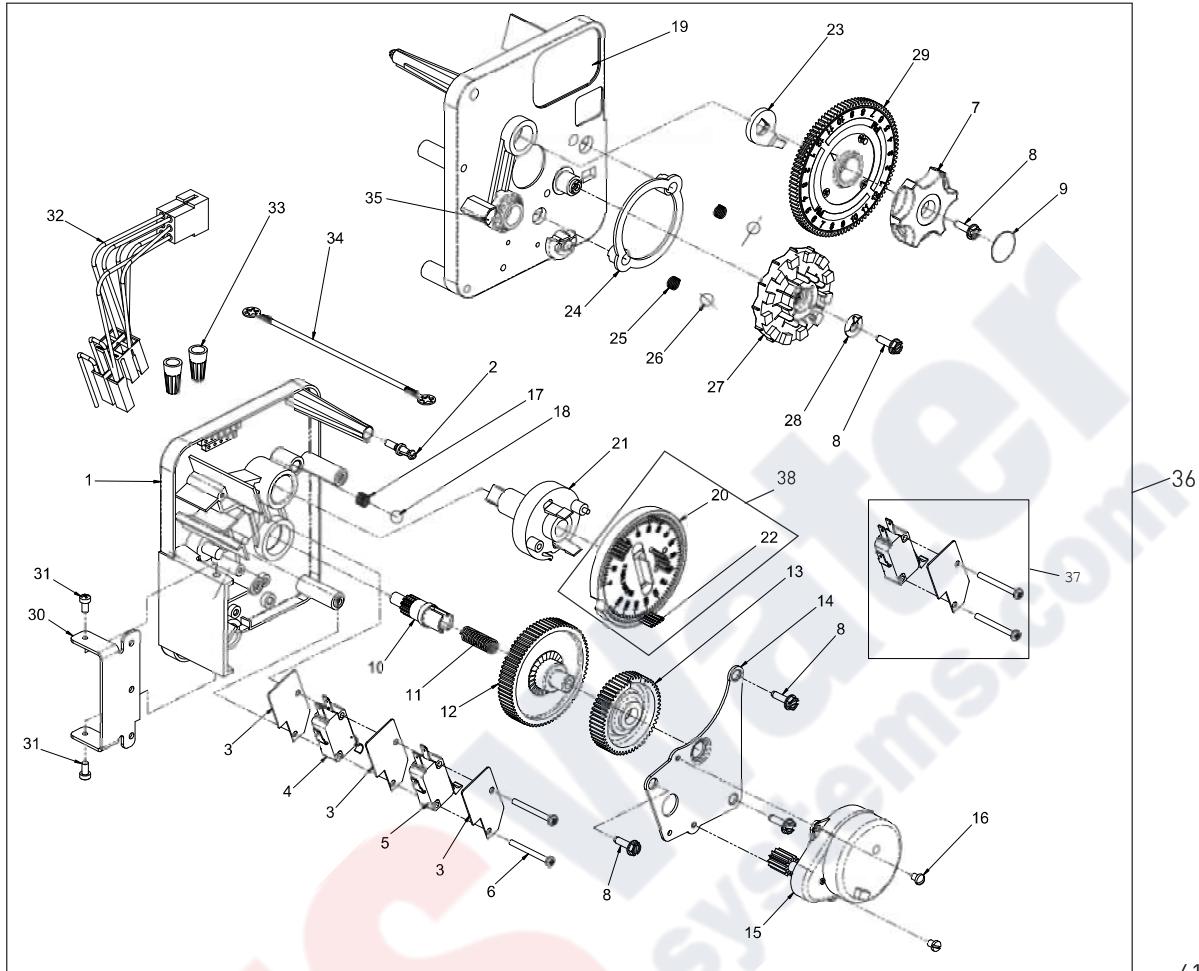
1. The second group of holes in the program wheel determines the length of time that your water conditioner will refill the brine tank (2 min. per hole).
2. To change the length of refill time, move the two pins at the end of the second group of holes as required.
3. The regeneration cycle is complete when the outer microswitch is tripped by the two pin set at end of the brine tank refill section.
4. The program wheel, however, will continue to rotate until the inner micro switch drops into the notch on the program wheel.



61502-3210 Rev A

Figure 4

3200 TIME CLOCK TIMER ASSEMBLY



615023200 Rev A

3200 TIME CLOCK TIMER ASSEMBLY

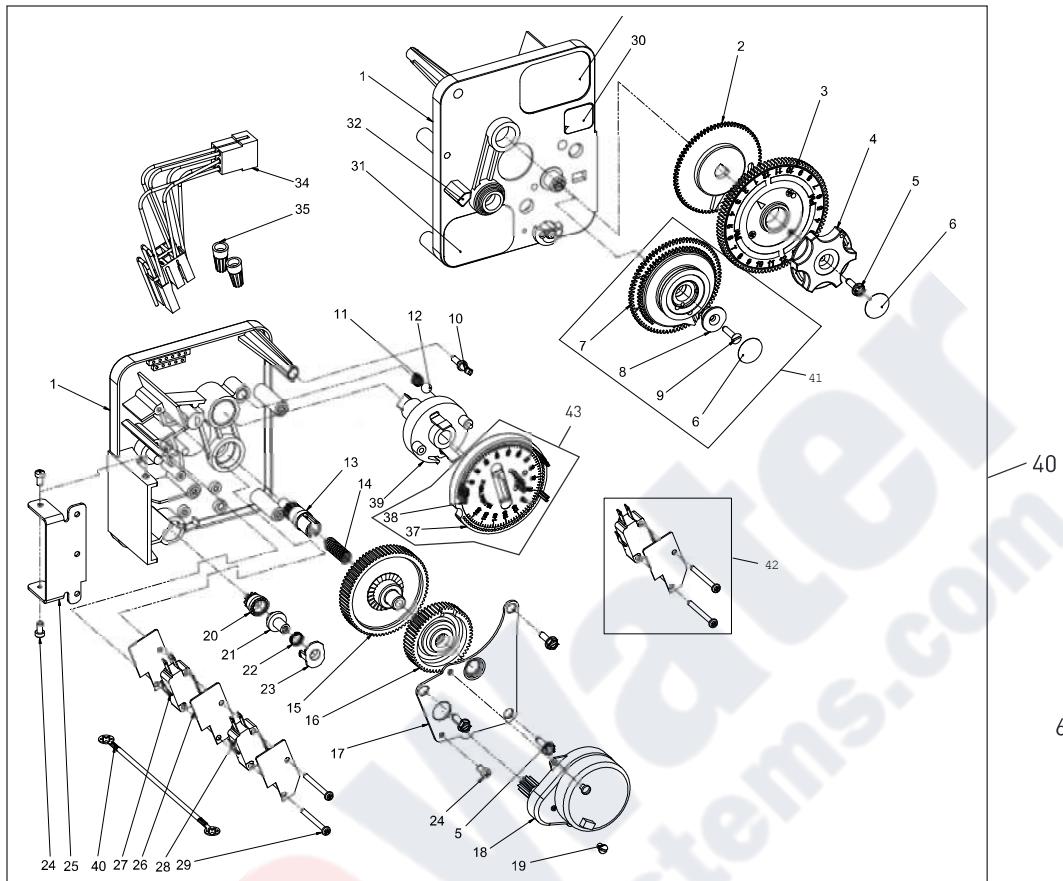
CONTINUED

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|--------------------------------------|
| 1 | 1 | 13870 | Housing, Timer, 3200 |
| 2 | 1 | 14265 | Clip, Sping |
| 3 | 3 | 14087 | Insulator |
| 4 | 1 | 10896 | Switch, Micro |
| 5 | 1 | 15320 | Switch, Micro, Timer |
| 6 | 2 | 11413 | Screw, Pan Hd Mach, 4-40 x 1-1/8 |
| 7 | 1 | 13886 | Knob, 3200 |
| 8 | 5 | 13296 | Screw, Hex Wsh, 6-20 x 1/2 |
| 9 | 1 | 11999 | Label, Button |
| 10 | 1 | 13018 | Pinion, Idler |
| 11 | 1 | 13312 | Spring, Idler Shaft |
| 12 | 1 | 13017 | Gear, Idler |
| 13 | 1 | 13164 | Gear, Drive |
| 14 | 1 | 13887 | Plate, Motor Mounting |
| 15 | 1 | 18743-1 | Motor, 120V, 60Hz, 1/30 RPM |
| | | 18752-1 | Motor, 100V, 50Hz, 1/30 RPM |
| | | 18824-1 | Motor, 230V, 50Hz, 1/30 RPM |
| | | 18826-1 | Motor, 24V, 50Hz, 1/30 RPM |
| | | 19659-1 | Motor, 24V, 60Hz, 1/30 RPM |
| | | 19660-1 | Motor, 230V, 60Hz, 1/30 RPM |
| 16 | 2 | 13278 | Screw, Sltd Fillister Hd 6-32 x .156 |
| 17 | 1 | 15424 | Spring, Detent, Timer |
| 18 | 1 | 15066 | Ball, 1/4-inch, Delrin |
| 19 | 1 | 15465 | Label, Caution |
| 20 | 1 | 19210 | Program Wheel Assy |
| 21 | 1 | 13911 | Gear, Main Drive, Timer |
| 22 | 17 | 41754 | Pin, Spring, 1/16 x 5/8 SS, Timer |
| 23 | 1 | 13011 | Arm, Cycle Actuator |
| 24 | 1 | 13864 | Ring, Skipper Wheel |
| 25 | 2 | 13311 | Spring, Detent, Timer |
| 26 | 2 | 13300 | Ball, 1/4-inch, SS |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|---|
| 27 | 1 | 14381 | Skipper Wheel Assy, 12 Day |
| | 1 | 14860 | Skipper Wheel Assy, 7 Day |
| 28 | 1 | 13014 | Pointer, Regeneration |
| 29 | 1 | 40096-24 | Dial, 12 AM Regen Assy, Black |
| | | 40096-02 | Dial, 2 AM Regen Assy, Black |
| 30 | 1 | 13881 | Bracket, Hinger Timer |
| 31 | 2 | 11384 | Screw, Phil, 6-32 x 1/4 Zinc |
| 32 | 1 | 13902 | Harness, 3200 |
| 33 | 2 | 40422 | Nut, Wire, Tan |
| 34 | 1 | 15354-01 | Wire, Ground, 4 inches |
| 35 | 1 | 14007 | Label, Time of Day |
| 36 | 1 | * | Complete 3200 Time Clock Timer Assembly |
| 37 | | 60320-02 | Switch Kit, 3200/9000 Timer Auxiliary, Optional |
| 38 | | 61420-03 | Program Wheel, Gear Assy, Filter 2 Min Per Pin |
| | | 61420-04 | Program Wheel, Gear Assy, Softener, 2 Min Per Pin |

*Call your distributor for Part Number

3210 METER DELAYED TIMER ASSEMBLY



61502-3210 Rev A

3210 METER DELAYED TIMER ASSEMBLY

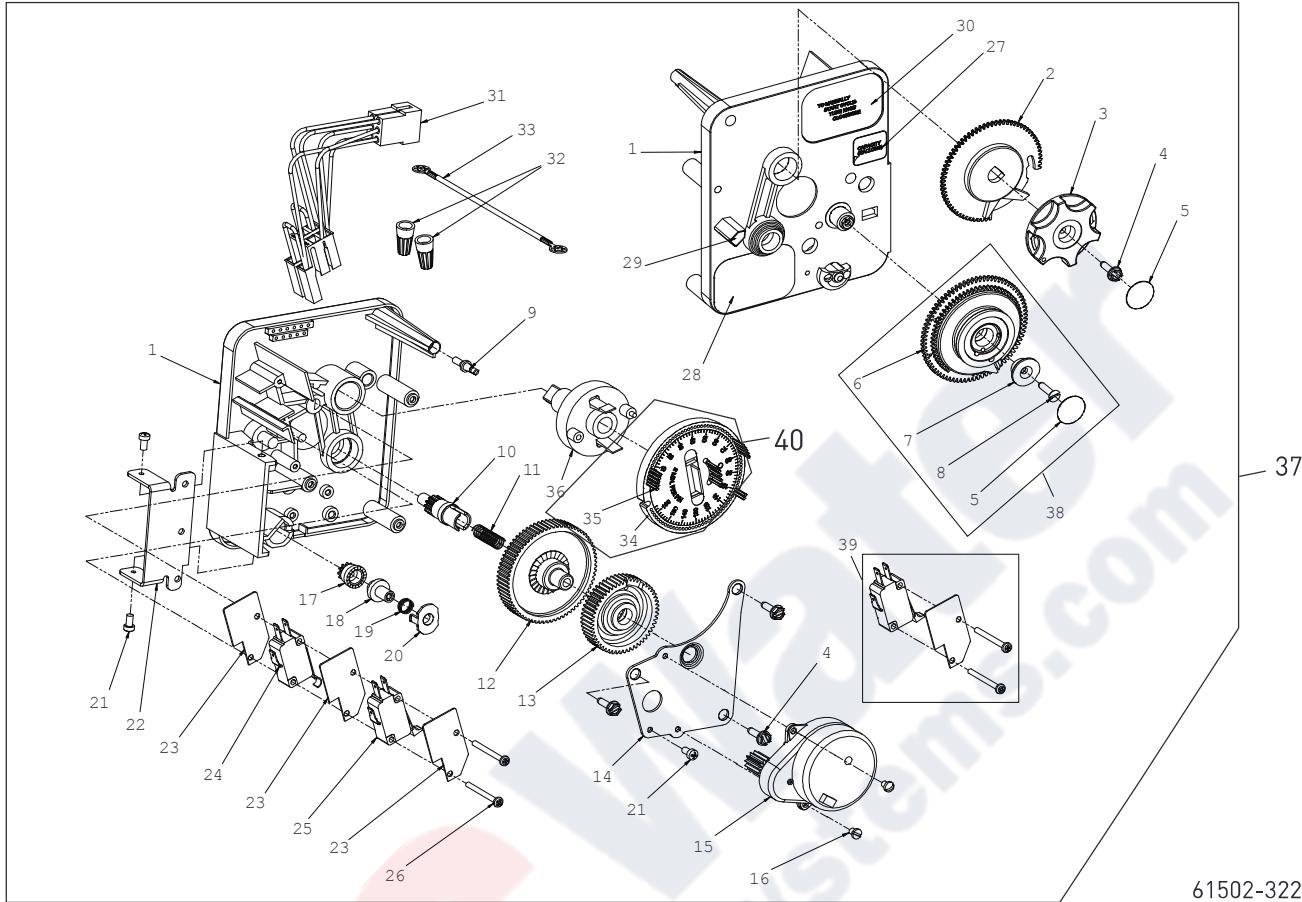
CONTINUED

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|----------------------------------|
| 1 | 1 | 13870 | Housing, Timer, 3200 |
| 2 | 1 | 13802 | Gear, Cycle Actuator |
| 3 | 1 | 40096-02 | Dial 2 AM Regen Assy, Black |
| 4 | 1 | 13886 | Knob, 3200 |
| 5 | 4 | 13296 | Screw, Hex Wsh, 6-20 x 1/2 |
| 6 | 2 | 11999 | Label, Button |
| 7 | 1 | 13803 | Gear, Program Drive Wheel |
| 8 | 1 | 13806 | Retainer, Program Wheel |
| 9 | 1 | 13748 | Screw, Flat Head St, 6-20 x 1/2 |
| 10 | 1 | 14265 | Clip, Spring |
| 11 | 1 | 15424 | Spring, Detent, Timer |
| 12 | 1 | 15066 | Ball, 1/4-inch Delrin |
| 13 | 1 | 13018 | Pinion, Idler |
| 14 | 1 | 13312 | Spring, Idler Shaft |
| 15 | 1 | 13017 | Gear, Idler |
| 16 | 1 | 13164 | Gear, Drive |
| 17 | 1 | 13887 | Plate, Motor Mounting |
| 18 | 1 | 18743-1 | Motor, 120V, 60Hz 1/30 RPM |
| | | 18752-1 | Motor, 100V, 50Hz, 1/30 RPM |
| | | 18824-1 | Motor, 230V, 50Hz, 1/30 RPM |
| | | 18826-1 | Motor, 24V, 50Hz, 1/30 RPM |
| | | 19659-1 | Motor, 24V, 60Hz, 1/30 RPM |
| | | 19660-1 | Motor, 230V, 60Hz, 1/30 RPM |
| 19 | 1 | 13278 | Screw, Fillister Hd, 6-32 x .156 |
| 20 | 1 | 13830 | Pinion, Program Wheel Drive |
| 21 | 1 | 13831 | Clutch, Drive Pinion |
| 22 | 1 | 14276 | Spring, Meter, Clutch |
| 23 | 1 | 14253 | Retainer, Clutch Spring |
| 24 | 3 | 11384 | Screw, Phil, 6-32 x 1/4 |
| 25 | 1 | 13881 | Bracket, Hinge Timer |
| 26 | 3 | 14087 | Insulator |
| 27 | 1 | 10896 | Switch, Micro |
| 28 | 1 | 15320 | Switch, Micro, Timer |
| 29 | 2 | 11413 | Screw, Pan Hd Mach, 4-40 x 1 1/8 |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|---|
| 30 | 1 | 14198 | Label, Indicator |
| 31 | 1 | 15465 | Label, Caution |
| 32 | 1 | 14007 | Label, Time of Day |
| 33 | 1 | 14045 | Label, Instruction |
| 34 | 1 | 13902 | Harness, 3200 |
| 35 | 2 | 40422 | Nut, Wire, Tan |
| 36 | 1 | 15354-01 | Wire, Ground, 4 inches |
| 37 | 1 | 19210 | Program Wheel Assy |
| 38 | 17 | 41754 | Pin, Spring, 1/16 x 5/8 SS, Timer |
| 39 | 1 | 13911 | Gear, Main Drive, Timer |
| 40 | 1 | * | Complete 3210 Meter Delayed Timer Assembly |
| 41 | | 60405-50 | Program Wheel, w/2-inch STD Label 0-21,000 gal |
| | | 60405-60 | Program Wheel, w/2-inch EXT Label 0-100,000 gal |
| | | 60405-61 | Program Wheel, w/2-inch EXT Range 375 m3 |
| 42 | | 60320-02 | Switch Kit, 3200/9000 Timer Auxiliary, Optional |
| 43 | | 61420-03 | Program Wheel, Gear Assy, Filter 2 Min Per Pin |
| | | 61420-04 | Program Wheel, Gear Assy, Softener, 2 Min Per Pin |

*Call your distributor for Part Number

3220 METER IMMEDIATE TIMER ASSEMBLY



61502-3220 Rev B

3220 METER IMMEDIATE TIMER

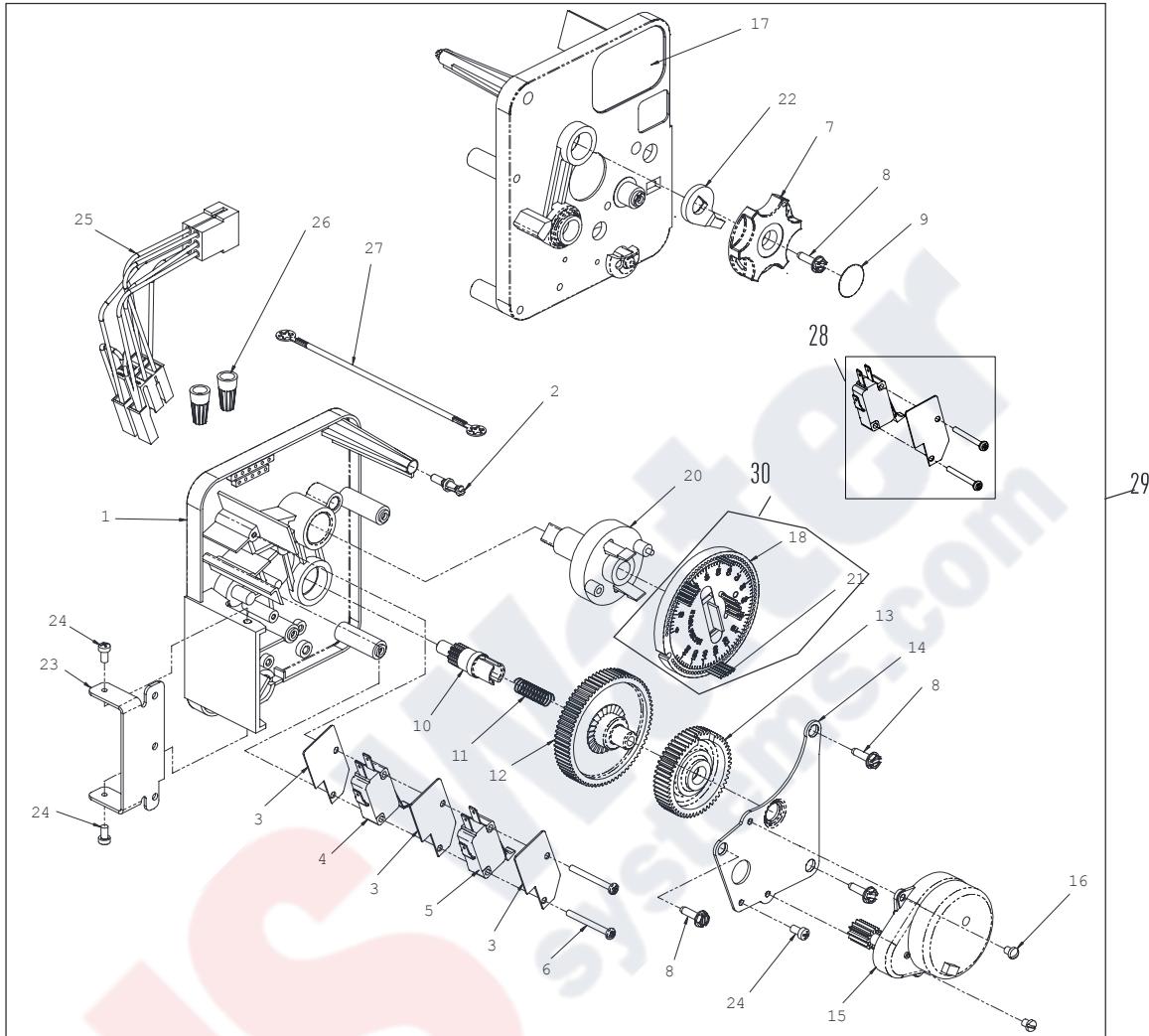
ASSEMBLY CONTINUED

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|----------------------------------|
| 1 | 1 | 13870 | Housing, Timer |
| 2 | 1 | 15431 | Gear, Cycle Actuator, System #5 |
| 3 | 1 | 13886 | Knob, 3200 |
| 4 | 4 | 13296 | Screw, Hex Wsh, 6-20 x 1/2 |
| 5 | 2 | 11999 | Label, Button |
| 6 | 1 | 13807 | Gear, Program Drive Wheel |
| 7 | 1 | 13806 | Retainer, Program Wheel |
| 8 | 1 | 13748 | Screw, Flt Hd St, 6-20 x 1/2 |
| 9 | 1 | 14265 | Spring Clip |
| 10 | 1 | 13018 | Pinion, Idler |
| 11 | 1 | 18563 | Idler Shaft Spring |
| 12 | 1 | 13017 | Gear, Idler |
| 13 | 1 | 13164 | Drive Gear |
| 14 | 1 | 13887 | Plate, Motor Mounting |
| 15 | 1 | 18743-1 | Motor, 120V, 60 Hz, 1/30 RPM |
| | | 18752-1 | Motor, 100V, 50Hz, 1/30 RPM |
| | | 18824-1 | Motor, 230V, 50Hz, 1/30 RPM |
| | | 18826-1 | Motor, 24V, 50Hz, 1/30 RPM |
| | | 19659-1 | Motor, 24V, 60Hz, 1/30 RPM |
| | | 19660-1 | Motor, 230V, 60Hz, 1/30 RPM |
| 16 | 2 | 13278 | Screw, Sltd Fillister Hd |
| 17 | 1 | 14502 | Pinion, Program Wheel |
| 18 | 1 | 14501 | Clutch, Drive Pinion |
| 19 | 1 | 14276 | Meter Clutch Spring |
| 20 | 1 | 14253 | Retainer, Clutch Spring |
| 21 | 3 | 11384 | Screw, Phil, 6-32 x 1/4 Zinc |
| 22 | 1 | 13881 | Bracket, Hinge Timer |
| 23 | 3 | 14087 | Insulator |
| 24 | 1 | 15414-00 | Micro Switch |
| 25 | 1 | 15320 | Switch, Micro, Timer |
| 26 | 2 | 11413 | Screw, Pan Hd Mach, 4-40 x 1-1/8 |
| 27 | 1 | 14198 | Label, Indicator |
| 28 | 1 | 15465 | Label, Caution |
| 29 | 1 | 14007 | Label, Time of Day |
| 30 | 1 | 15148 | Label, Instruction |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|--|
| 31 | 1 | 40617 | Harness, 3220 |
| 32 | 2 | 40422 | Nut, Wire, Tan |
| 33 | 1 | 15354-01 | Wire, Ground, 4 inches |
| 34 | 1 | 19210-05 | Program Wheel Assembly, 9000/3230 |
| 35 | 17 | 41754 | Pin, Spring, 1/16 x 5/8 Stainless Steel, Timer |
| 36 | 1 | 15055 | Gear, Main Drive |
| 37 | 1 | * | Complete 3220 Meter Immediate Timer Assy |
| 38 | | 60405-50 | Program Wheel, w/2-inch STD Label 0-21,000 gal |
| | | 60405-60 | Program Wheel, w/2-inch EXT Label 0-100,000 gal |
| | | 60405-61 | Program Wheel, w/2-inch EXT Range 375 m3 |
| 39 | | 60320-02 | Switch Kit, 3200/9000 Timer Auxiliary, Optional |
| 40 | | 61420-06 | Program Wheel, Gear Assy, Softener Immediate 2 Min Per Pin |
| | | 61420-42 | Program Wheel, Gear Assy, Filter Immediate 2 Min Per Pin |

*Call your distributor for Part Number

3230 REMOTE START TIMER ASSEMBLY



61502-3230R REV A

3230 REMOTE START TIMER ASSEMBLY

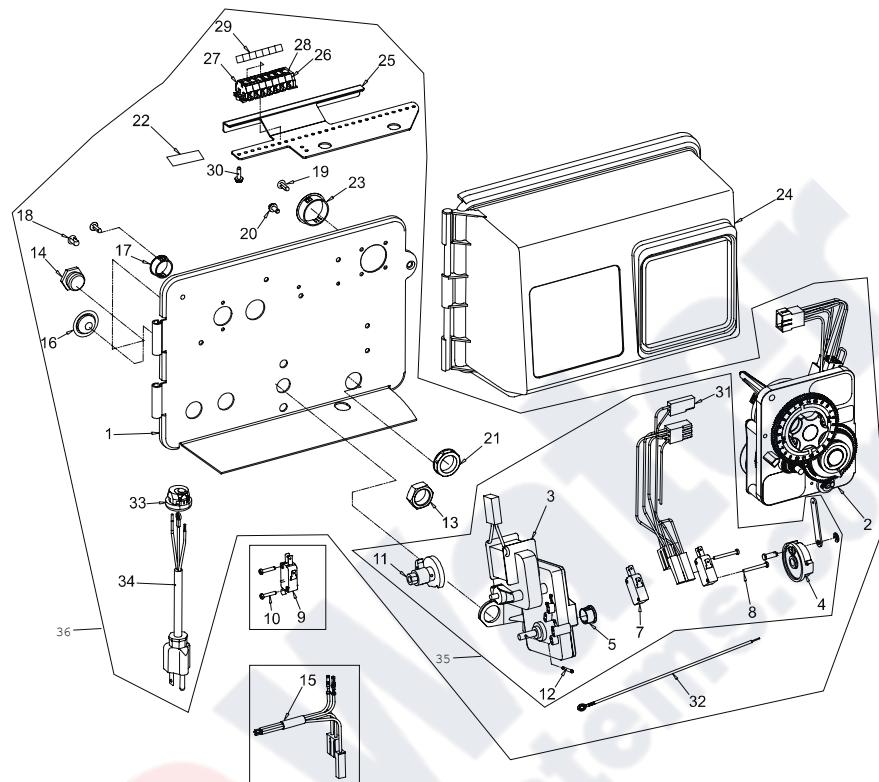
CONTINUED

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|-------------------------------------|
| 1 | 1 | 13870 | Housing, Timer |
| 2 | 1 | 14265 | Spring Clip |
| 3 | 3 | 14087 | Insulator |
| 4 | 1 | 15314 | Micro Switch |
| 5 | 1 | 15320 | Switch, Micro, Timer |
| 6 | 2 | 11413 | Screw, Pan Hd Mach, 4-40 x 1-1/8 |
| 7 | 1 | 13886 | Knob, 3200 |
| 8 | 4 | 13296 | Screw, Hex Wsh, 6-20 x 1/2 |
| 9 | 1 | 11999 | Label, Button |
| 10 | 1 | 13018 | Pinion, Idler |
| 11 | 1 | 18563 | Idler Shaft Spring |
| 12 | 1 | 13017 | Gear, Idler |
| 13 | 1 | 15055 | Drive Gear |
| 14 | 1 | 13887 | Plate, Motor Mounting |
| 15 | 1 | 18743-1 | Motor, 120V, 60 Hz, 1/30 RPM |
| | | 18752-1 | Motor, 100V, 50Hz, 1/30 RPM |
| | | 18824-1 | Motor, 23V, 50Hz, 1/30 RPM |
| | | 18826-1 | Motor, 24V, 50Hz, 1/30 RPM |
| | | 19659-1 | Motor, 24V, 60Hz, 1/30 RPM |
| | | 19660-1 | Motor, 230V, 60Hz, 1/30 RPM |
| 16 | 2 | 13278 | Screw, Sltd Fillister Hd |
| 17 | 1 | 15313 | Label, Caution |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|--|
| 18 | 1 | 19210-05 | Program Wheel Assembly, 3200 |
| 20 | 1 | 15055 | Main Drive Gear |
| 21 | 17 | 41754 | Pin, Spring, 1/16 x 5/8 Stainless Steel, Timer |
| 22 | 1 | 13011 | Cycle Actuator Arm |
| 23 | 1 | 13881 | Bracket, Hinge Timer |
| 24 | 3 | 11384 | Screw, Phil, 6-32 x 1/4 Zinc |
| 25 | 1 | 16336 | Harness, 3230R |
| 26 | 2 | 40422 | Nut, Wire, Tan |
| 27 | 1 | 15354-01 | Wire, Ground, 4 inches |
| 28 | | 60320-02 | Switch Kit, 3200/9000 Timer Auxiliary, Optional |
| 29 | * | | 3230 Timer Assy |
| 30 | | 61420-06 | Program Wheel, Gear Assy, Softener Immediate 2 Min Per Pin |
| | | 61420-42 | Program Wheel, Gear Assy, Filter Immediate 2 Min Per Pin |

*Call your distributor for Part Number

UPPER ENVIRONMENTAL POWERHEAD ASSEMBLY



61501-2900 Rev G

UPPER ENVIRONMENTAL POWERHEAD ASSEMBLY *CONTINUED*

| Item No. | QTY | Part No. | Description |
|-----------------|------------|-----------------|--|
| 1 | 1 | 18697-15 | Backplate, Hinged |
| 2 | 1 | 3200 | Clock Timer Assembly |
| | | 3200 | Meter Timer Assembly |
| 3 | 1 | 41543 | Motor, Drive, 115V, 50/60 Hz |
| | | 42579 | Motor, Drive, 24VAC/DC, 50/60 Hz |
| | | 41545 | Motor, Drive, 230V, 50/60 Hz |
| 4 | 1 | 60160-15 | Drive Cam Assembly, STF, Blue, 2900 |
| | | 60160-30* | Drive Cam Assembly, Upflow |
| | | 60160-31* | Drive Cam Assembly, Upflow, Variable |
| 5 | 1 | 17904 | Bushing, Heyco 1/2, Heyco #2073 |
| 7 | 2 | 10218 | Switch, Micro |
| 8 | 2 | 14923 | Screw, Pan Hd Mach, 4-40 X 1 MS Steel Zinc |
| 9 | 1 | 10896 | Switch, Micro |
| 10 | 2 | 11805 | Screw, Rd Hd, 4-40 X 5/8 TYPE 1 Steel Zinc |
| 11 | 1 | 12472 | Cam Assy, Tri-Stack, After RR |
| | | 12777 | Cam, Shut-Off Valve |
| | | 15770 | Cam Assy, Special Tri-Stack, After Brine Fill |
| | | 15805 | Cam, SVO |
| | | 19887* | Cam, Brine, 2750 U/F, Std |
| 12 | 2 | 10338 | Pin, Roll 3/32 x 7/8 |
| 13 | 1 | 10269 | Nut, Jam, 3/4-16 |
| 14 | 1 | 43560 | Fitting, Brine Valve |
| 15 | 1 | 14822 | Harness, 2900 |
| 16 | 2 | 19691 | Plug, .750 Dia Recessed, Black |
| 17 | 1 | 15806 | Plug, Hole, Heyco #2693 |
| 18 | 1 | 19801 | Plug, .190 Dia, White Heyco 0307 |
| 19 | 7 | 19800 | Plug, .140 Dia, White Heyco 0304 |
| 20 | 4 | 10300 | Screw, Slot Hex Wsh, 8-18 X 3/8 Type "B" RC 44-47 |
| 21 | 1 | 18691-02 | Nut, Conduit Fitting 1/2-inch |
| 22 | 1 | 40038-03 | Label, Voltage, 120V, 3200ET |
| 23 | 1 | 17421 | Plug, 1.20 Hole Heyco #2733 |
| 24 | 1 | 60219-02 | Cover Assembly, Environmental, Black w/ Clear Window |

| Item No. | QTY | Part No. | Description |
|-----------------|------------|-----------------|---|
| 25 | 1 | 19772 | Bracket, Terminal Block |
| 26 | 1 | 40174 | Terminal Block, Green/Yellow Commercial, 809-260/141 |
| 27 | 6 | 41084 | Terminal Block, Segment, Gray |
| 28 | 1 | 41085 | Endplate, Terminal Block, Gray |
| 29 | 2 | 15250 | Label, Terminal Strip |
| 30 | 2 | 13296 | Screw, Hex Wsh, 6-20 6-20 x 1/2 Type 25 Steel Zinc |
| 31 | 1 | 40400 | Harness, Drive, Designer/Environmental |
| 32 | 1 | 40175-01 | Wire, Ground, Commercial Valves |
| 33 | 1 | 13547 | Strain Relief, Flat Cord Heyco #30-1 |
| | | 13547-01 | Strain Relief, Euro Round Cord |
| | | 13547-02 | Strain Relief, U.S. Round |
| 34 | 1 | 11545 | Powercord, 4-foot European, Black |
| | | 19303 | Powercord, 8-foot, Australian |
| | | 40084-12 | Powercord, 12-foot US, Round, 120V,Sys 5,6,7&2900/3150/3900 |
| | | 40085-12 | Powercord, 12-foot US, Round, 240V |
| 35 | | 60050-23 | Drive Assy, 2750, STF, 24V 50/60 Hz, Downflow Less Lower Drive Brine Cam Switch, Item 9 & 10 |
| | | 60050-22 | Drive Assy, 2750, STF, 220V 50/60 Hz, Downflow Less Lower Drive Brine Cam Switch, Item 9 & 10 |
| | | 60052-21 | Upper Drive Assy, 2900, STF 120V, Downflow |
| | | 60052-217 | Upper Drive Assy, 2900, STF 120V, System 7, Downflow |
| 36 | ** | | Upper Powerhead Assembly |

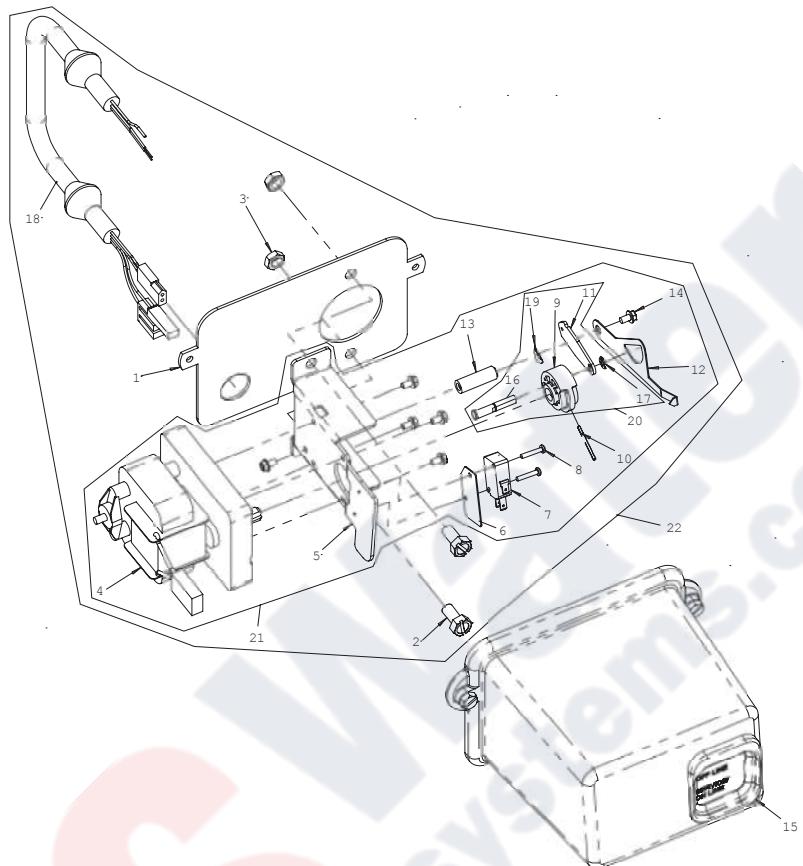
Not Shown:

- 1 15216 Meter Cable Assembly, 15.25-inch
- 1 15879 Cable Guide Assembly, 2900

*Upflow Only

**Call your distributor for Part Number

LOWER ENVIRONMENTAL POWERHEAD ASSEMBLY



61501-2900 Rev G

LOWER ENVIRONMENTAL POWERHEAD

ASSEMBLY CONTINUED

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|---|
| 1 | 1 | 18709 | Backplate, Lower |
| 2 | 2 | 11224 | Screw, Slotted Hex Head |
| 3 | 2 | 16346 | Nut, Hex, Jam, 5/16-18, 18-8-SS (only used for shipping) |
| 4 | 1 | 40387 | Motor, Drive, 115V, 60 Hz, SP FAM |
| | | 42580 | Motor, Drive, 24 Vac/Dc, 50-60 Hz, Fam 2 |
| | | 40389 | Motor, Drive, 220V, 50/60 Hz, SP |
| 5 | 1 | 14769 | Bracket, Motor, 2900 |
| 6 | 1 | 10302 | Insulator, Limit Switch |
| 7 | 1 | 10218 | Switch, Micro |
| 8 | 2 | 19849 | Screw, Pan HD, 4-40 x 5/8 |
| 9 | 1 | 14775 | Cam, Main Drive, 2900 Lower |
| 10 | 1 | 41022 | Pin, Roll 2900 Lower |
| 11 | 1 | 14759 | Link, Piston Rod |
| 12 | 1 | 18725 | Indicator, Service/Standy |
| 13 | 1 | 18726 | Spacer, Indicator |
| 14 | 6 | 10872 | Screw, Hex WSH, 8-32 x 5/16 |
| 15 | 1 | 60217-02 | Cover Assy, 2900, Lower, Black |
| 16 | 1 | 42979 | Bearing, Connecting Rod |
| 17 | 1 | 42980 | Ring, Retaining |
| 18 | 1 | 42446 | Harness, Lower Drive SYS4, ENV |
| | | 40405 | Harness, Lower Drive, Sys 4 Remote Start |
| | | 40406 | Harness, Lower Drive, Sys 5 & 6, Duplex, Enviromental |
| | | 40405 | Harness, Lower Drive Syst 5 Multiple, Enviromental |
| | | 40405 | Harness, Lower Drive Syst 6 Multiple, Lead, Enviromental |
| | | 40406 | Harness, Lower Drive, Sys 6, Multiple, Middle/Lag, Enviromental |
| | | 40407 | Harness, Lower Drive, Syst #7, Duplex, Lead, Enviromental |

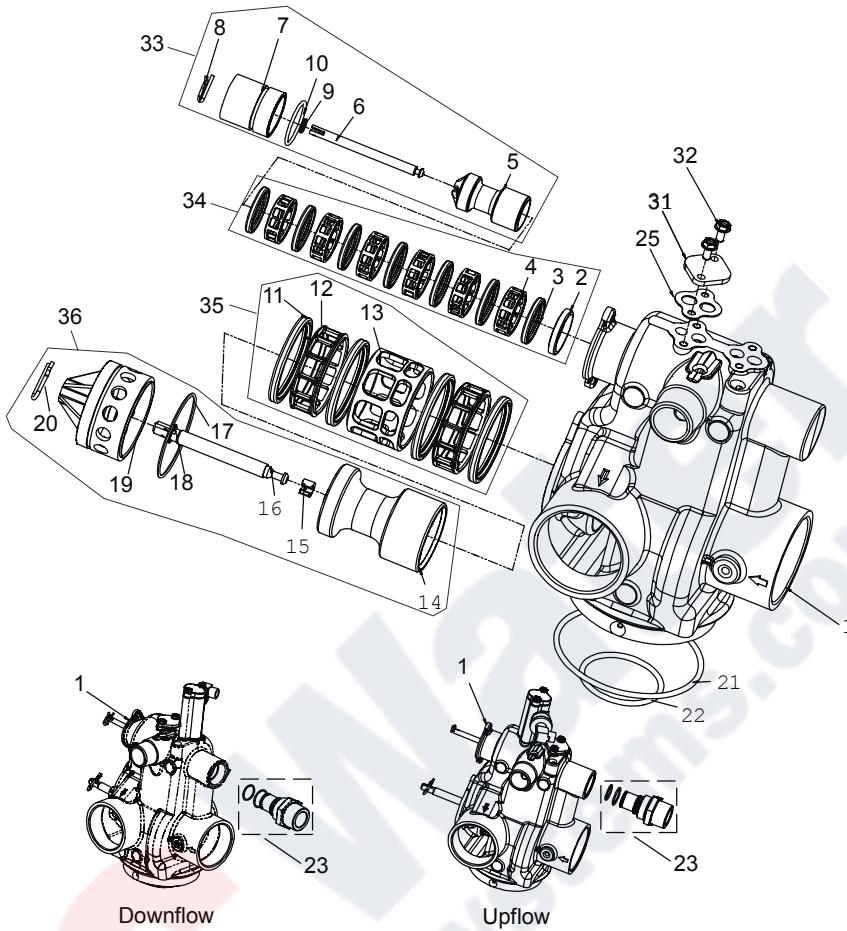
| Item No. | QTY | Part No. | Description |
|----------|-----|----------|--|
| | | 40408 | Harness, Lower Drive, Syst 7, Duplex, Lag, Enviromental |
| | | 40398 | Harness, Lower Drive, Syst #7, Multiple, Enviromental |
| 19 | 1 | 18727 | Washer, Curved Spring, /265 ID |
| 20 | | 60160-22 | Drive Cam Assy, Link, Enviromental, 2900 Lower Drive |
| 21 | | 60055-53 | Lower Drive Assy, 2900, 24/60, System #4 |
| | | 60055-51 | Lower Drive Assy, 2900, 120, System #4 |
| | | 60055-52 | Lower Drive Assy, 2900, 220, System #4 |
| | | 60255-51 | Lower Drive Assy, 2900, 120, System #5 and #6, Lead/Lag |
| | | 60056-51 | Lower Drive Assy, 2900, 120, System #7, Lead |
| | | 60056-61 | Lower Drive Assy, 2900, 120, System #7, Lag |
| 22 | * | | 2900 Lower Powerhead Assembly |

Not Shown:

| | | |
|---|----------|---|
| 1 | 14044 | Tie, Cable, HeyCo VNT # 4-18 |
| 1 | 43062 | Grease, Lubriplate, 630-2 |
| | 60320-11 | Switch Kit, 2900 Lower Drive, Adding Second Switch |
| | 60320-08 | Switch Kit, 2900 Lower Drive, Adding Third Switch |

*Call your distributor for Part Number

CONTROL VALVE ASSEMBLY



61500-2900 Rev F

| Item No. | QTY | Part No. | Description |
|----------|-----|------------|---|
| 1 | 1 | 41428-01 | Valve Body, 2900s, Machd, NPT U.S. Tap |
| | | 41428-09 | Valve Body, 2900s, Machined, w/Soft Water Adapter |
| | | 41428-01NP | Valve Body, 2900s, MCHD, NPT, NP, U.S. Tap, Top Coll |
| | | 41428-03 | Valve Body, 2900s, MACHD, NPT, U.S. Tap, Aux Tap, Top Coll |
| | | 41428-03NP | Valve Body, 2900s, MCHD, NPT, NP, U.S. Tap, Aux Tap, Top Coll |
| | | 41428-05 | Valve Body, 2900s, NPT, U.S. Tap, SVO, Top Coll |
| | | 41428-07 | Valve Body, 2900s, MACHD, NPT, U.S. Tap, Aux Tap, SVO, Top Coll |
| | | 41428-09 | Valve Body, 2900s, MACHD, NPT, U.S. Tap, Soft ADAPT, Top Coll |

| Item No. | QTY | Part No. | Description |
|----------|-----|------------|--|
| | | 41428-09NP | Valve Body, 2900S, MCHD, NPT, NP, U.S. Tap, Soft ADAPT, Top Coll |
| | | 41428-11 | Valve Body, 2900S, NPT, U.S. Tap, Aux Tap, SFT ADPT, Top Coll |
| | | 41428-13 | Valve Body, 2900S, MACHD, NPT, U.S. Tap, SVO, Soft ADAPT, Top Coll |
| | | 41428-15 | Valve Body, 2900S, MACHD, NPT, U.S. Tap, SVO, SFT ADPT, AX TP Top |
| | | 41428-21 | Valve Body, 2900S, MACHD, BSP, Metric Tap, Top Coll |
| | | 41428-21NP | Valve Body, 2900S, MCHD, BSP, NP, Metric Tap, Top Coll |
| 2 | 1 | 10757 | Spacer, End |
| | | 10757B | Spacer, End, Brass, HW |
| 3 | 7 | 10545 | Seal, Piston |
| | | 10545-01 | Seal, Piston, Viton |
| | | 10545-02 | Seal, Piston, Silicone |

CONTROL VALVE ASSEMBLY *CONTINUED*

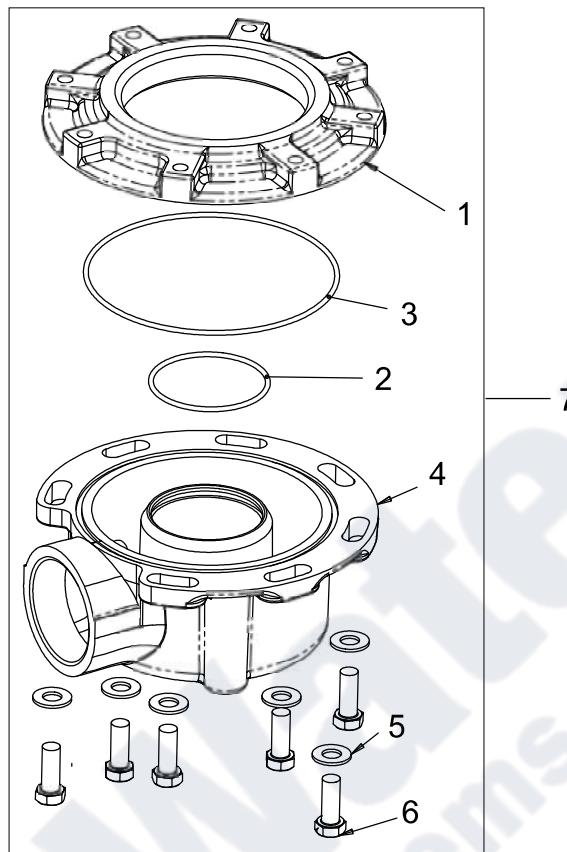
| Item No. | QTY | Part No. | Description | Item No. | QTY | Part No. | Description |
|----------|---------|----------------------|--|-------------------|----------------------|---|-------------|
| 4 | 6 | 11451 | Spacer, 12 Hole | ..... | 61545 | Piston Assy, 2900S, | |
| | | 16589 | Spacer, Hot Water | | | Upflow, Upper | |
| 5 | 1 | 14451 | Piston, 2750 | ..... | 61545-01 | Piston Assy, 2900S, | |
| | | 19454* | Piston, 2750, Upflow | | | Upflow, Upper, Hot Water | |
| 6 | 1 | 41424 | Rod, Piston, 2900S, Upper | 34 | 61530 | Seal & Spacer Kit, 2900s, | |
| 7 | 1 | 41131 | Plug, End | | 61530 | Upper | |
| | 1 | 10212 | Plug, End, 1500/2750, Brass | | 61530-01 | Seal & Spacer Kit, 2900S, | |
| 8 | 1 | 10909 | Pin, Link | | 61530-02 | Upper, Hot Water | |
| 9 | 1 | 10209 | Quad Ring,-010 | ..... | 60128 | Seal & Spacer Kit, 2900, | |
| 10 | 1 | 40078 | O-ring, 28mm X 2mm | | | Lower | |
| | | 10234-01 | O-ring, -024, Hot Water | ..... | 60128-01 | Seal & Spacer Kit, 2900, | |
| 11 | 4 | 11720 | Seal, Piston, 2900/3150 | | | Lower, Hot Water | |
| | | 10545-02 | Seal, Piston, Silicone | ..... | 60128-10 | Seal & Spacer Kit, 2900, | |
| 12 | 2 | 10369 | Spacer, 2-inch, 2900/3150 | | | Lower, Silicone | |
| | | 14241-01 | Spacer, Hot Water | 36 | 61550 | Piston Assy, 2900S, HWBP, | |
| 13 | 1 | 14753 | Spacer, 2900 | | | Lower | |
| | | 16589 | Spacer, Hot Water | ..... | 61550-03 | Piston Assy, 2900S, HWBP, | |
| 14 | 1 | 14757 | Piston, HWBP | | | Lower, Hot Water | |
| | | 14752 | Piston, 2900, NHWBP | ..... | 61555 | Piston Assy, 2900S, | |
| 15 | 1 | 14818 | Ring, Piston Rod, Snap | | | NHWBP, Lower | |
| 16 | 1 | 14758 | Rod, Piston, 2900 | ..... | 61555-03 | Piston Assy, 2900S, | |
| 17 | 1 | 14922 | O-ring, -035, Piston | | | NHWBP, Lower, Hot Water | |
| 18 | 1 | 14926 | Quad Ring, -012 | Not Shown: | | | |
| 19 | 1 | 14754-00 | End Plug Assy, 2900 | ..... | 60366-00 | DLFC, 1-inch F x 3/4-inch F, NPT, No Button | |
| | | 14754-01 | Plug, End, White, Machined | ..... | 60366-06 | DLFC, 1-inch F x 3/4-inch F, NPT, 0.6 gpm | |
| | | 14754-10 | End Plug Assembly, 2900/2930, NHWBP | ..... | 60366-08 | DLFC, 1-inch F x 3/4-inch F, NPT, 0.8 gpm | |
| | | 19276-01 | End Plug Assembly, 2900S, Brass, HW | ..... | 60366-10 | DLFC, 1-inch F x 3/4-inch F, NPT, 1.0 gpm | |
| | | 41427-01 | Plug, End, 2900S, Lower, White | ..... | 60366-12 | DLFC, 1-inch F x 3/4-inch F, NPT, 1.2 gpm | |
| | | 41427-11 | Plug, End, 2900S, Lower, Black | ..... | 60366-13 | DLFC, 1-inch F x 3/4-inch F, NPT, 1.3 gpm | |
| 20 | 1 | 14813 | Pin, Spring, Connecting Rod | ..... | 60366-15 | DLFC, 1-inch F x 3/4-inch F, NPT, 1.5 gpm | |
| 21 | 1 | 13575 | O-ring, -240 | ..... | 60366-17 | DLFC, 1-inch F x 3/4-inch F, NPT, 1.7 gpm | |
| | | 15210 | O-ring, -343, Park Tank | ..... | 60366-20 | DLFC, 1-inch F x 3/4-inch F, NPT, 2.0 gpm | |
| 22 | 1 | 13577 | O-ring, -226 | ..... | 60366-24 | DLFC, 1-inch F x 3/4-inch F, NPT, 2.4 gpm | |
| 23 | 1 | 61525 | Softwater Adapter Kit, 2900S | ..... | 60366-30 | DLFC, 1-inch F x 3/4-inch F, NPT, 3.0 gpm | |
| 25 | 2 | 19925 | Gasket, Injector Body, 1700 | ..... | 60366-35 | DLFC, 1-inch F x 3/4-inch F, NPT, 3.5 gpm | |
| 31 | 1 | 11893 | Cap, Injector, Stainless Steel | ..... | 60366-40 | DLFC, 1-inch F x 3/4-inch F, NPT, 4.0 gpm | |
| 32 | 2 | 15137 | Screw, Hex Wsh Mach, 10 - 24 x 3/8 | | | | |
| 33 | | 61540 | Piston Assy, 2900S Downflow, Upper | | | | |
| | | 61540-01 | Piston Assy, 2900S, Downflow, Upper, Hot Water | | | | |

CONTROL VALVE ASSEMBLY *CONTINUED*

| Item No. | QTY | Part No. | Description | Item No. | QTY | Part No. | Description |
|----------------------|------------|---|--------------------|----------------------|------------|--|--------------------|
| 60366-45..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 4.5 gpm | | 60721-30..... | | DLFC, 1-inch F x 1-inch F, NPTF, 3.0 gpm | |
| 60366-50..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 5.0 gpm | | 60721-35..... | | DLFC, 1-inch F x 1-inch F, NPTF, 3.5 gpm | |
| 60366-60..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 6.0 gpm | | 60721-40..... | | DLFC, 1-inch F x 1-inch F, NPTF, 4.0 gpm | |
| 60366-70..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 7.0 gpm | | 60721-45..... | | DLFC, 1-inch F x 1-inch F, NPTF, 4.5 gpm | |
| 60708-00..... | | DLFC, 1-inch F x 3/4-inch F, NPT, No Button | | 60721-50..... | | DLFC, 1-inch F x 1-inch F, NPTF, 5.0 gpm | |
| 60708-8.0..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 8.0 gpm | | 60721-60..... | | DLFC, 1-inch F x 1-inch F, NPTF, 6.0 gpm | |
| 60708-9.0..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 9.0 gpm | | 60721-70..... | | DLFC, 1-inch F x 1-inch F, NPTF, 7.0 gpm | |
| 60708-10..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 10.0 gpm | | 60702-00..... | | DLFC, 1-inch M x 1-inch F, NPT, Brass, No Button | |
| 60708-12..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 12.0 gpm | | 60702-8.0..... | | DLFC, 1-inch M x 1-inch F, NPT, 8.0 gpm | |
| 60708-15..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 15.0 gpm | | 60702-9.0..... | | DLFC, 1-inch M x 1-inch F, NPT, 9.0 gpm | |
| 60708-20..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 20.0 gpm | | 60702-10..... | | DLFC, 1-inch M x 1-inch F, NPT, 10 gpm | |
| 60708-25..... | | DLFC, 1-inch F x 3/4-inch F, NPT, 25.0 gpm | | 60702-12..... | | DLFC, 1-inch M x 1-inch F, NPT, 12 gpm | |
| 60721-00..... | | DLFC, 1-inch F x 1-inch F, NPT, No Button | | 60702-15..... | | DLFC, 1-inch M x 1-inch F, NPT, 15 gpm | |
| 60721-06..... | | DLFC, 1-inch F x 1-inch F, NPT, 0.06 gpm | | 60702-20..... | | DLFC, 1-inch M x 1-inch F, NPT, 20 gpm | |
| 60721-08..... | | DLFC, 1-inch F x 1-inch F, NPT, 0.08 gpm | | 60702-25..... | | DLFC, 1-inch M x 1-inch F, NPT, 25 gpm | |
| 60721-10..... | | DLFC, 1-inch F x 1-inch F, NPT, 1.0 gpm | | 13640..... | | Flow Control, Dole, 30 gpm | |
| 60721-12..... | | DLFC, 1-inch F x 1-inch F, NPT, 1.2 gpm | | 60711-35..... | | DLFC, 2-inch NPT, 35 gpm | |
| 60721-13..... | | DLFC, 1-inch F x 1-inch F, NPT, 1.3 gpm | | | | | |
| 60721-15..... | | DLFC, 1-inch F x 1-inch F, NPT, 1.5 gpm | | | | | |
| 60721-00..... | | DLFC, 1-inch F x 1-inch F, NPTF, No Button | | | | | |
| 60721-17..... | | DLFC, 1-inch F x 1-inch F, NPTF, 1.7 gpm | | | | | |
| 60721-20..... | | DLFC, 1-inch F x 1-inch F, NPTF, 2.0 gpm | | | | | |
| 60721-24..... | | DLFC, 1-inch F x 1-inch F, NPTF, 2.4 gpm | | | | | |

*Upflow Only

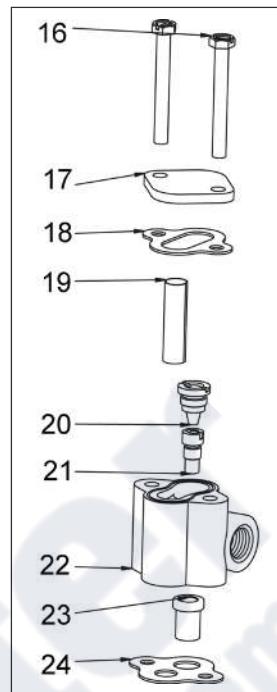
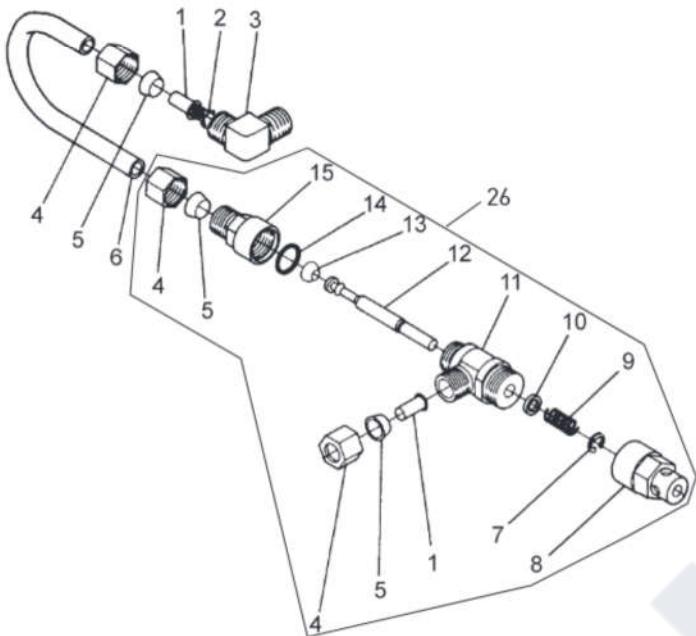
CONTROL VALVE SIDE MOUNT ADAPTER



61415 Rev B

| Item No. | QTY | Part No. | Description |
|----------|-----|------------|---|
| 1 | 1 | 40316 | Adapter, Sidemount |
| 2 | 1 | 40372 | O-ring - 142 |
| 3 | 1 | 40368 | O-ring - 160, Sidemount, Flange |
| 4 | 1 | 40310 | Base, 2850/2900/3930, Rotating |
| 5 | 7 | 40375 | Washer, Flat, 3/8, Type A, N-SERS |
| 6 | 7 | 19768 | Screw, Hex Hd, 3/8 - 16 x 1, Cap 18-8 |
| 7 | 1 | 61415 | Adapter Assy, Sidemount 2850/2900/2930 |
| | | 61415NP | Adapter Assy, Sidemount, NP 2850/2900/2930 |
| | | 61415-20 | Adapter Assy, Sidemount, BSP/MTC 2850/2900/2930 |
| | | 61415-20NP | Adapter Assy, Sidemount, BSP/NP 2850/2900/2930 |

1600 SERIES BRINE SYSTEM



60029 Rev C

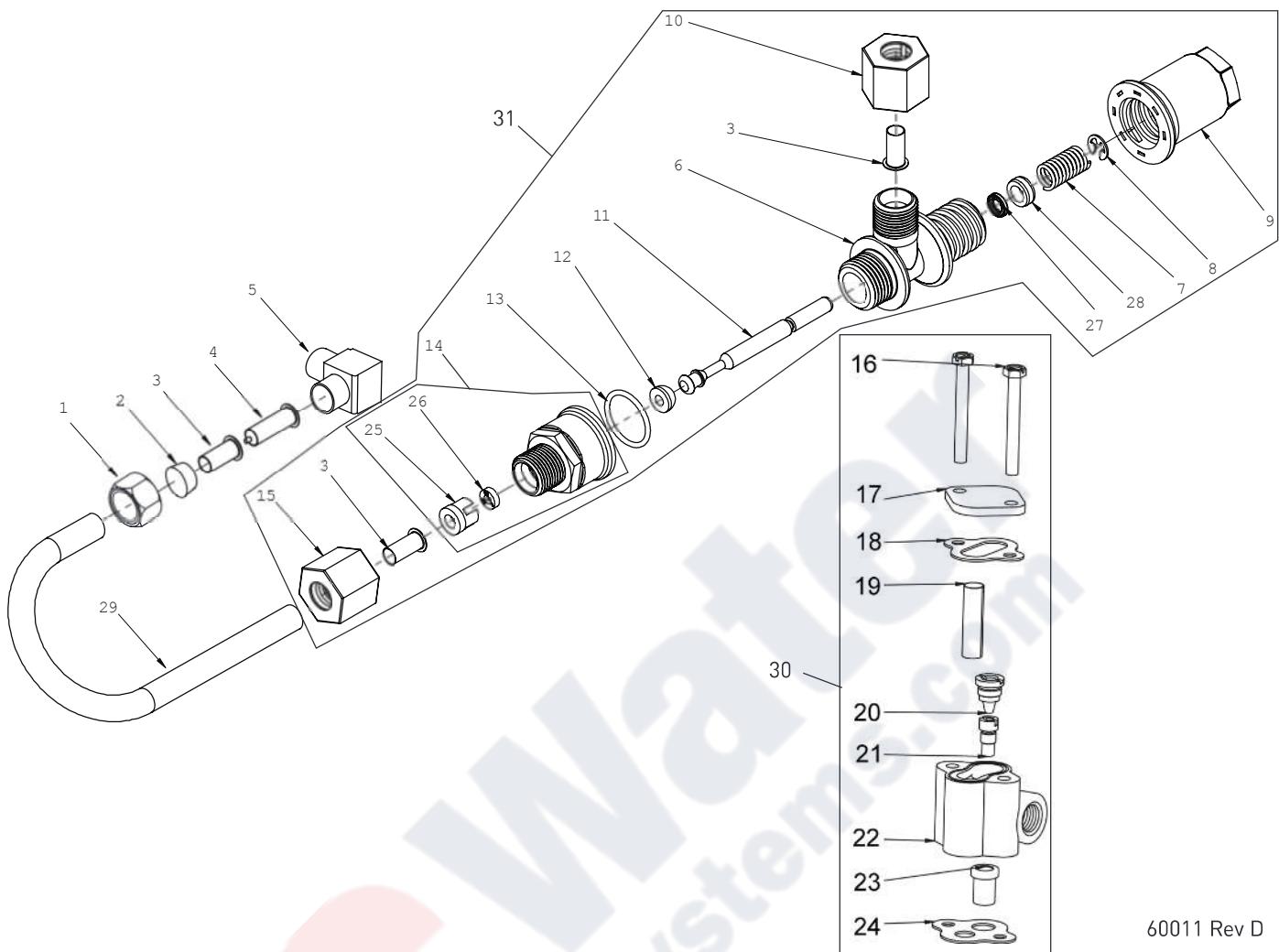
| Item No. | QTY | Part No. | Description |
|----------|-----|-----------|--|
| 1 | 2 | 10332 | Fitting, Insert, 3/8 |
| 2 | 1 | 12767 | Screen, Brine |
| 3 | 1 | 10328 | Fitting, Elbow, 90 Deg. 1/4 PT x 3/8 Tube |
| 4 | 3 | 10329 | Fitting, Tube, 3/8 Nut, Brass |
| 5 | 3 | 10330 | Fitting, Sleeve, 3/8 Celcon |
| 6 | 1 | 16508 | Tube, Brine, 1600, PVC 1 16508-01.....Tube, Brine Valve, 2850/2900s |
| 7 | 1 | 10250 | Tube, Brine Valve, 1500 |
| 8 | 1 | 40027 | Tube, Brine Valve, 2510 |
| 9 | 1 | 15221 | Tube, Brine Valve, 2750/2900 |
| 10 | 1 | 42184 | Tube, Brine Valve, 2850s |
| 11 | 1 | 41683* | Tube, Brine Valve, UF, 1600/1650 |
| 12 | 1 | 10250-02 | Ring, Retaining |
| 13 | 1 | 11749 | Guide, Brine Valve Stem |
| 14 | 1 | 10249 | Spring, Brine Valve |
| 15 | 1 | 12550 | Quad Ring, -009 |
| 16 | 1 | 12748 | Brine Valve Body Assy, 1600 w/Quad Ring |
| 17 | 1 | 12552-02 | Brine Valve Stem, 1600, with Seat |
| 18 | 1 | 12626 | Seat, Brine Valve |
| 19 | 1 | 11982 | O-ring, -016 |
| 20 | 1 | 60020-25 | BLFC, .25 GPM, 1600 |
| 21 | 1 | 60020-50 | BLFC, .50 GPM, 1600 |
| 22 | 1 | 60020-100 | BLFC, 1.0 GPM, 1600 |
| 23 | 2 | 10692 | Screw, Slot Hex Hd, 10 - 24X 18-8 Stainless Steel |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------------|--|
| 17 | 1 | 11893 | Cap, Injector, SS |
| 18 | 1 | 10229 | Gasket, Injector Cap, 1600 |
| 19 | 1 | 10227 | Screen, Injector |
| 20 | 1 | 10913-000 | Nozzle, Injector #000, Brown |
| | | 10913-00 | Nozzle, Injector #00, Violet |
| | | 10913-0 | Nozzle, Injector #0, Red |
| | | 10913-1 | Nozzle, Injector #1, White |
| | | 10913-2 | Nozzle, Injector #2, Blue |
| | | 10913-3 | Nozzle, Injector #3, Yellow |
| | | 10913-4 | Nozzle, Injector #4, Green |
| | | 12973-0 | Nozzle, Injector #0, PVC, Grey |
| | | 12973-1 | Nozzle, Injector #1, PVC, Grey |
| | | 12973-2 | Nozzle, Injector #2, PVC, Grey |
| | | 12973-3 | Nozzle, Injector #3, PVC, Grey |
| | | 12973-4 | Nozzle, Injector #4, PVC, Grey |
| | | 10225-0 | Nozzle, Injector #0, Stainless Steel |
| | | 10225-1 | Nozzle, Injector #1, Stainless Steel |
| | | 10225-2 | Nozzle, Injector #2, Stainless Steel |
| | | 10225-3 | Nozzle, Injector #3, Stainless Steel |
| | | 10225-4 | Nozzle, Injector #4, Stainless Steel |

1600 SERIES BRINE SYSTEM *CONTINUED*

| Item No. | QTY | Part No. | Description | Item No. | QTY | Part No. | Description |
|----------|-------|-----------|--------------------------------------|--------------|-------|-----------|---|
| 21 | 1 | 10914-000 | Throat, Injector #000, Brown | 25 | ..... | 60480-01 | Injector Assy, 1600, #1, Plastic |
|  | ..... | 10914-00 | Throat, Injector #00, Violet |  | ..... | 60480-02 | Injector Assy, 1600, #2, Plastic |
|  | ..... | 10914-0 | Throat, Injector #0, Red |  | ..... | 60480-03 | Injector Assy, 1600, #3, Plastic |
|  | ..... | 10914-1 | Throat, Injector #1, White |  | ..... | 60480-04 | Injector Assy, 1600, #4, Plastic |
|  | ..... | 10914-2 | Throat, Injector #2, Blue |  | ..... | 60481-21 | Injector Assy, 1600, #1, S.S. Brass |
|  | ..... | 10914-3 | Throat, Injector #3, Yellow |  | ..... | 60481-22 | Injector Assy, 1600, #2, S.S. Brass |
|  | ..... | 10914-4 | Throat, Injector #4, Green |  | ..... | 60481-23 | Injector Assy, 1600, #3, S.S. Brass |
|  | ..... | 12974-0 | Throat, Injector #0, PVC, Grey |  | ..... | 60080-11 | Injector Assy, 1600, #1, PVC |
|  | ..... | 12974-1 | Throat, Injector #1, PVC, Grey |  | ..... | 60080-12 | Injector Assy, 1600, #2, PVC |
|  | ..... | 12974-2 | Throat, Injector #2, PVC, Grey |  | ..... | 60080-14 | Injector Assy, 1600, #4, PVC |
|  | ..... | 12974-3 | Throat, Injector #3, PVC, Grey |  | ..... | 60485-003 | Injector Assy, 2900/1600, Upflow, #0, w/Reg Cap, 20 psi |
|  | ..... | 12974-4 | Throat, Injector #4, PVC, Grey |  | ..... | 60485-012 | Injector Assy, 2900/1600, Upflow, #1, w/Reg Cap, 20 psi |
|  | ..... | 10226-0 | Throat, Injector #0, Stainless Steel |  | ..... | 60485-022 | Injector Assy, 2900/1600, Upflow, #2, w/Reg Cap, 20 psi |
|  | ..... | 10226-1 | Throat, Injector #1, Stainless Steel |  | ..... | 60485-032 | Injector Assy, 2900/1600, Upflow, #3, w/Reg Cap, 20 psi |
|  | ..... | 10226-2 | Throat, Injector #2, Stainless Steel |  | ..... | 60485-043 | Injector Assy, 2900/1600, Upflow, #4, w/Reg Cap, 20 psi |
|  | ..... | 10226-3 | Throat, Injector #3, Stainless Steel | 26 | ..... | 60029-010 | Brine Valve, 1600, 0.25 gpm |
|  | ..... | 10226-4 | Throat, Injector #4, Stainless Steel |  | ..... | 60029-020 | Brine Valve, 1600, 0.50 gpm |
| 22 | 1 | 17776 | Body, Injector, 1600 |  | ..... | 60029-030 | Brine Valve, 1600, 1.0 gpm |
| | 1 | 17776-02* | Body, Injector, 1600 Upflow | *Upflow Only | | | |
| 23 | 1 | 16221 | Disperser, Air | | | | |
| 24 | 1 | 14805 | Gasket, Injector Body, 1600/1700 | | | | |

1650 BRINE SYSTEM ASSEMBLY



60011 Rev D

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|---|
| 1 | 1 | 10329 | Fitting, Tube, 3/8 Nut, Brass |
| 2 | 1 | 10330 | Fitting, Sleeve, 3/8 Celcon |
| 3 | 3 | 10332 | Fitting, Insert, 3/8 |
| 4 | 1 | 12767 | Screen, Brine |
| 5 | 1 | 10328 | Fitting, Elbow, 90 Deg 1/4 NPT x 3/8T |
| 6 | 1 | 17884 | Brine Valve Body Assy, 1650 |
| 7 | 1 | 10249 | Spring, Brine Valve |
| 8 | 1 | 10250 | Ring, Retaining |
| 9 | 1 | 17906 | Guide, Brine Valve Stem |
| 10 | 1 | 19625 | Nut Assy, 3/8-inch, Plastic |
| 11 | 1 | 12552-02 | Brine Valve Stem, 1600 |
| 12 | 1 | 12626 | Seat, Brine Valve |
| 13 | 1 | 16924 | O-ring, -018 |
| 14 | 1 | 60010-25 | BLFC, 1650, .25 GPM, Plastic (Includes items 25 and 26) |
| | 1 | 60010-50 | BLFC, 1650, .50 GPM, |

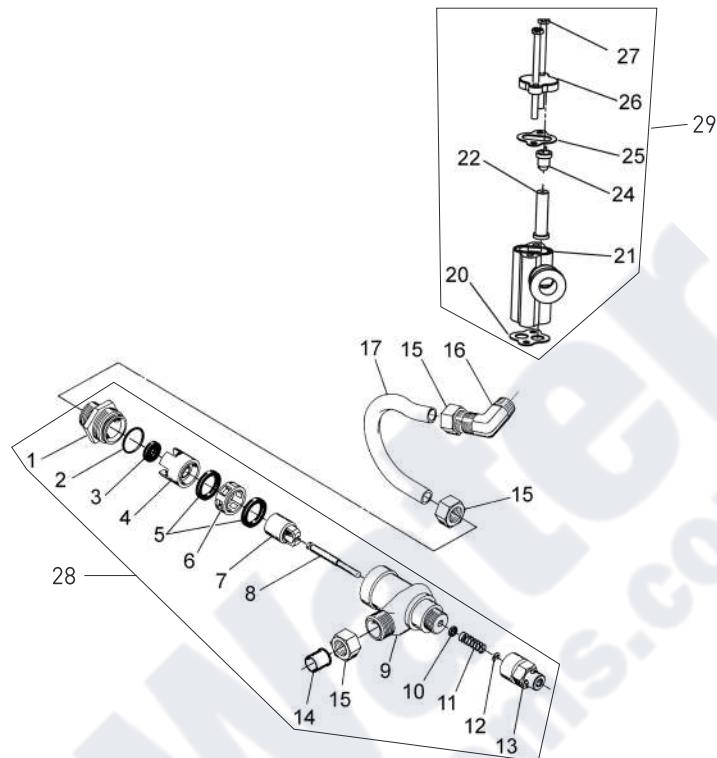
| Item No. | QTY | Part No. | Description |
|----------|-----|-----------|---|
| | | | Plastic |
| 1 | 1 | 60010-100 | BLFC, 1650, 1.0 GPM, Plastic |
| 15 | 1 | 19625 | Nut Assy, 3/8-inch, Plastic |
| 16 | 2 | 10692 | Screw, Slot Hex Hd, 10 - 24X 18-8 Stainless Steel |
| 17 | 1 | 11893 | Cap, Injector, Stainless Steel |
| 18 | 1 | 10229 | Gasket, Injector Cap, 1600 |
| 19 | 1 | 10227 | Screen, Injector |
| 20 | 1 | 10913-000 | Nozzle, Injector #000, Brown |
| | | 10913-00 | Nozzle, Injector #00, Violet |
| | | 10913-0 | Nozzle, Injector #0, Red |
| | | 10913-1 | Nozzle, Injector #1, White |
| | | 10913-2 | Nozzle, Injector #2, Blue |
| | | 10913-3 | Nozzle, Injector #3, Yellow |
| | | 10913-4 | Nozzle, Injector #4, Green |
| | | 12973-0 | Nozzle, Injector #0, PVC, Grey |
| | | 12973-1 | Nozzle, Injector #1, PVC, Grey |
| | | 12973-2 | Nozzle, Injector #2, PVC, Grey |

1650 BRINE SYSTEM ASSEMBLY CONTINUED

| Item No. | QTY | Part No. | Description | Item No. | QTY | Part No. | Description |
|----------|-----|-----------|--------------------------------------|----------|-----|-----------|---|
| | | 12973-3 | Nozzle, Injector #3, PVC, Grey | 27 | 1 | 12550 | Quad Ring -009 |
| | | 12973-4 | Nozzle, Injector #4, PVC, Grey | 1 | 1 | 12550-01 | Quad Ring -009 560CD |
| | | 10225-0 | Nozzle, Injector #0, Stainless Steel | 28 | 1 | 17908 | Sleeve, Brine Valve Stem |
| | | 10225-1 | Nozzle, Injector #1, Stainless Steel | 29 | 1 | 16508-01 | Tube, Brine Valve, 2850/1600 |
| | | 10225-2 | Nozzle, Injector #2, Stainless Steel | 1 | 1 | 40027 | Tube, Brine Valve, 2510 |
| | | 10225-3 | Nozzle, Injector #3, Stainless Steel | 1 | 1 | 42184 | Tube, Brine Valve, 2850s |
| | | 10225-4 | Nozzle, Injector #4, Stainless Steel | 1 | 1 | 12774 | Tube, Brine Valve, 1500 |
| 21 | 1 | 10914-000 | Throat, Injector #000, Brown | 1 | 1 | 15221 | Tube, Brine Valve, 2750 |
| | | 10914-00 | Throat, Injector #00, Violet | 1 | 1 | 41683* | Tube, Brine Valve, UF, 1600/1650 |
| | | 10914-0 | Throat, Injector #0, Red | 30 | 1 | 60480-01 | Injector Assy, 1600, #1, Plastic |
| | | 10914-1 | Throat, Injector #1, White | | | 60480-02 | Injector Assy, 1600, #2, Plastic |
| | | 10914-2 | Throat, Injector #2, Blue | | | 60480-03 | Injector Assy, 1600, #3, Plastic |
| | | 10914-3 | Throat, Injector #3, Yellow | | | 60480-04 | Injector Assy, 1600, #4, Plastic |
| | | 10914-4 | Throat, Injector #4, Green | | | 60481-21 | Injector Assy, 1600, #1, S.S. Brass |
| | | 12974-0 | Throat, Injector #0, PVC, Grey | | | 60481-22 | Injector Assy, 1600, #2, S.S. Brass |
| | | 12974-1 | Throat, Injector #1, PVC, Grey | | | 60481-23 | Injector Assy, 1600, #3, S.S. Brass |
| | | 12974-2 | Throat, Injector #2, PVC, Grey | | | 60080-11 | Injector Assy, 1600, #1, PVC |
| | | 12974-3 | Throat, Injector #3, PVC, Grey | | | 60080-12 | Injector Assy, 1600, #2, PVC |
| | | 12974-4 | Throat, Injector #4, PVC, Grey | | | 60080-14 | Injector Assy, 1600, #4, PVC |
| | | 10226-0 | Throat, Injector #0, Stainless Steel | | | 60485-003 | Injector Assy, 2900/1600, Upflow, #0, w/Reg Cap, 20 psi |
| | | 10226-1 | Throat, Injector #1, Stainless Steel | | | 60485-012 | Injector Assy, 2900/1600, Upflow, #1, w/Reg Cap, 20 psi |
| | | 10226-2 | Throat, Injector #2, Stainless Steel | | | 60485-022 | Injector Assy, 2900/1600, Upflow, #2, w/Reg Cap, 20 psi |
| | | 10226-3 | Throat, Injector #3, Stainless Steel | | | 60485-032 | Injector Assy, 2900/1600, Upflow, #3, w/Reg Cap, 20 psi |
| | | 10226-4 | Throat, Injector #4, Stainless Steel | | | 60485-043 | Injector Assy, 2900/1600, Upflow, #4, w/Reg Cap, 20 psi |
| 22 | 1 | 17776 | Body, Injector, 1600 | 31 | 1 | 60011-010 | Brine Valve, 1650, 0.25 gpm |
| | 1 | 17776-02* | Body, Injector, 1600 Upflow | | | 60011-020 | Brine Valve, 1650, 0.50 gpm |
| 23 | 1 | 16221 | Disperser, Air | | | 60011-030 | Brine Valve, 1650, 1.0 gpm |
| 24 | 1 | 14805 | Gasket, Injector Body, 1600/1700 | | | | |
| 25 | 1 | 12098 | Retainer, Flow Control | | | | |
| 26 | 1 | 12095 | Washer, Flow Control .50 GPM | | | | |
| | 1 | 12094 | Washer, Flow Control .25 GPM | | | | |
| | 1 | 12097 | Washer, Flow Control 1.0 GPM | | | | |

*Upflow Only

1700 BRINE SYSTEM ASSEMBLY



60034 Rev D

1700 BRINE SYSTEM ASSEMBLY CONTINUED

| Item No. | QTY | Part No. | Description | Item No. | QTY | Part No. | Description |
|----------|-----|-----------|---|----------|----------|---------------------------------------|---|
| 1 | 1 | 14792 | Plug, End, Brine Valve | | | 14801-05c | Nozzle, Injector, #5c, White |
| 2 | 1 | 13201 | Quad Ring, -020 | | | 14801-06c | Nozzle, Injector, #6c, Red |
| 3 | 1 | 12085 | Washer, Flow, 1.2 GPM | 25 | 1 | 10229 | Gasket, Injector Cap, 1600 |
| | 1 | 12086 | Washer, Flow, 1.5 GPM | 26 | 1 | 11893 | Cap, Injector, Stainless Steel |
| | 1 | 12087 | Washer, Flow, 2.0 GPM | | 1 | 10228 | Cap, Injector |
| | 1 | 12088 | Washer, Flow, 2.4 GPM | 27 | 2 | 14804 | Screw, Hex Hd Mach, 10 - 24 x 2-3/4-inch 18-8 Stainless Steel |
| | 1 | 12089 | Washer, Flow, 3.0 GPM | 28 | 1 | 60034-00 | Brine Valve, 1700, Blank |
| | 1 | 12090 | Washer, Flow, 3.5 GPM | | 60034-10 | Brine Valve, 1700, 1.0 gpm | |
| | 1 | 12091 | Washer, Flow, 4.0 GPM | | 60034-12 | Brine Valve, 1700, 1.2 gpm | |
| | 1 | 12092 | Washer, Flow, 5.0 GPM | | 60034-15 | Brine Valve, 1700, 1.5 gpm | |
| 4 | 1 | 14785 | Retainer, Flow Control | | 60034-20 | Brine Valve, 1700, 2.0 gpm | |
| 5 | 3 | 14811 | O-ring, -210, 560CD, Brine | | 60034-24 | Brine Valve, 1700, 2.4 gpm | |
| 6 | 1 | 14798 | Spacer, 1700, Brine | | 60034-30 | Brine Valve, 1700, 3.0 gpm | |
| 7 | 1 | 14795 | Piston, Brine Valve | | 60034-40 | Brine Valve, 1700, 4.0 gpm | |
| 8 | 1 | 14797 | Brine Valve Stem | | 60034-50 | Brine Valve, 1700, 5.0 gpm | |
| 9 | 1 | 14790 | Brine Valve Body | 29 | 1 | 60381-03 | Injector Assy, 1700, #3c, Complete |
| 10 | 1 | 12550 | Quad Ring, -009 | | 60381-04 | Injector Assy, 1700, #4c, Complete | |
| 11 | 1 | 15310 | Spring, Brine Valve | | 60381-05 | Injector Assy, 1700, #5c, Complete | |
| 12 | 1 | 10250 | Retaining Ring | | 60381-06 | Injector Assy, 1700, #6c, Complete | |
| 13 | 1 | 15517 | Guide, Stem | | | | |
| 14 | 1 | 15415 | Fitting, Insert, 1/2-inch, Tube | | | | |
| 15 | 3 | 15414 | Nut, 2900, w/Sleeve | | | | |
| 16 | 1 | 15413 | Fitting, Elbow, Male, 1/2T x 3/8 NPT | | | | |
| 17 | 1 | 15416 | Tube, Brine, 2900/2750 | | | | |
| | 1 | 16460 | Tube, Brine, 2850/2900s | | | | |
| | 1 | 41447* | Tube, Brine, 2900s, U/F | | | | |
| | 1 | 42183 | Tube, Brine, 1700, 2850s | | | | |
| 20 | 1 | 14805 | Gasket, Injector Body 1600/1700 | | | | |
| 21 | 1 | 17777 | Body, Injector, 1700 | | | | |
| | 1 | 17777-02* | Body, Injector, 1700 U/F | | | | |
| 22 | 1 | 14802-03c | Throat, Injector, #3c, Yellow | | | | |
| | | 14802-04c | Throat, Injector, #4c, Green | | | | |
| | | 14802-05c | Throat, Injector, #5c, White | | | | |
| | | 14802-06c | Throat, Injector, #6c, Red | | | | |
| 24 | | 14801-03c | Nozzle, Injector, #3c, Yellow | | | | |
| | | 14801-04c | Nozzle, Injector, #4c, Green | | | | |

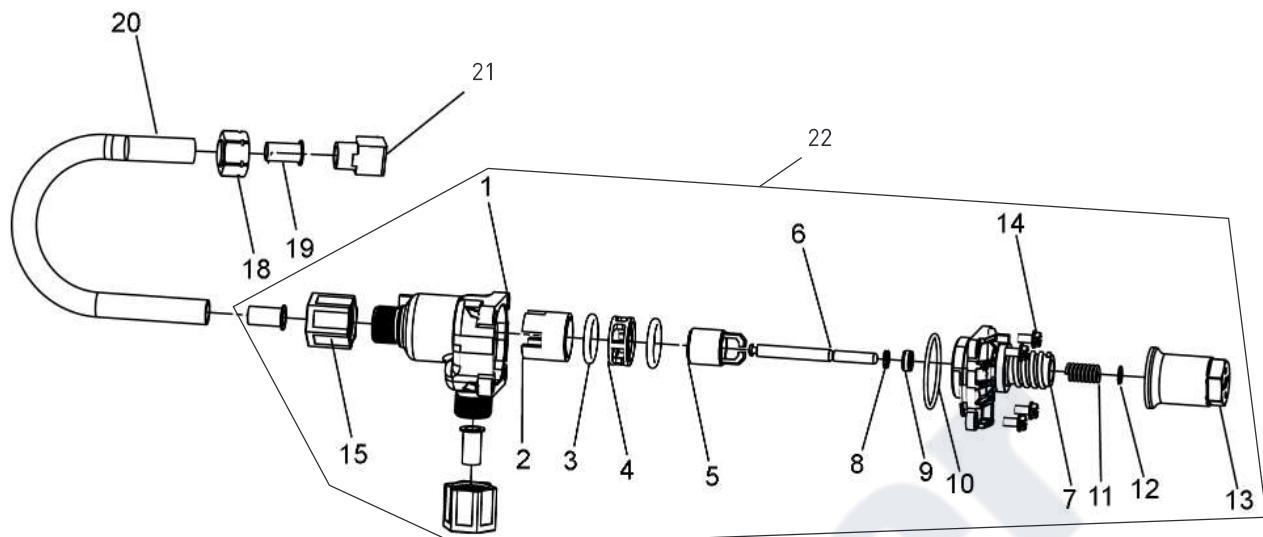
Not Shown:

- 1 16974 Fitting, Plastic, Female,
3/4 x 3/4 Slip
- 1 17996 Disperser, Air, Injector

*Upflow Only

NOTE: Item number 26 (11893) is used on injector sizes 2 through 5C. Part number 10228 is used on injector sizes 6C.

1710 BRINE SYSTEM ASSEMBLY



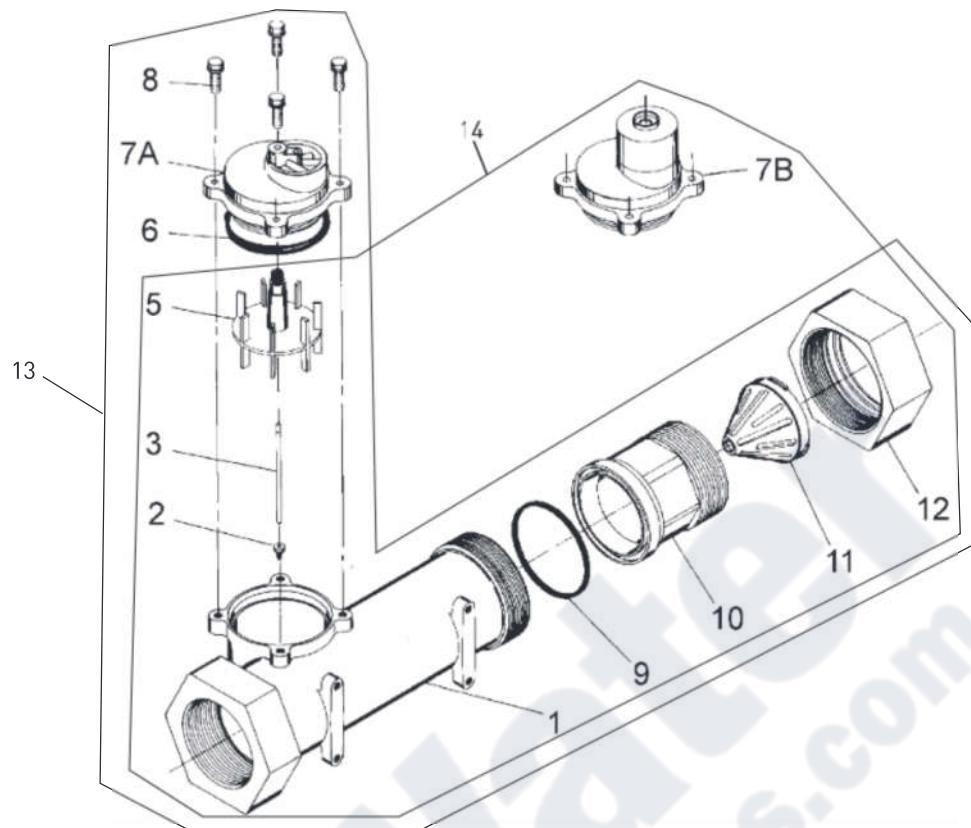
| Item No. | QTY | Part No. | Description |
|----------|-----|----------|-------------------------------------|
| 1 | 1 | 41202 | Brine Valve, 1700, Plastic, Top |
| 2 | 1 | 14785-01 | Retainer, Flow Control |
| 3 | 1 | 14811 | O-Ring, -210, 560CD, Brine |
| 4 | 1 | 14798 | Spacer, 1700, Brine |
| 5 | 1 | 14795 | Piston, Brine Valve |
| 6 | 1 | 41203 | Stem, Brine, 1710, Plastic, 2900 |
| 7 | 1 | 41201 | Brine Valve, 1700, Plastic, Bottom |
| 8 | 5 | 17908 | Sleeve, Brine Valve Stem |
| 9 | 1 | 12550 | Quad Ring, -009 |
| 10 | 3 | 41547 | O-Ring, 2mmx35mm |
| 11 | 2 | 15310 | Spring, Brine Valve |
| 12 | 2 | 10250 | Ring, Retaining |
| 13 | 1 | 17906 | Guide, Brine Valve Stem |
| 14 | 2 | 14202-01 | Screw, Hex Wsh Mach, 8-32 X 5/16 |
| 15 | 2 | 41056 | Nut Assembly, 1/2-inch Plastic |
| 18 | 1 | 15414 | Nut, 2900, w/Sleeve |
| 19 | 1 | 15415 | Fitting, Insert, 1/2-inch, Tube |
| 20 | 1 | 16460 | Tube, Brine, 2850, 2900s |
| | 1 | 42183 | Tube, Brine, 1700/2850s |
| | 1 | 15416 | Tube, Brine, 2900/2750 |
| | 1 | 41447* | Tube, Brine, 2900s U/F |
| 21 | 1 | 15413 | Fitting, Elbow, Male, 1/2T X 3/8NPT |

| Item No. | QTY | Part No. | Description |
|----------|-------|----------|----------------------------------|
| 22 | | 60605-00 | Brine Valve, 1710, 2750, Blank |
| | | 60605-10 | Brine Valve, 1710, 2750, 1.0 gpm |
| | | 60605-12 | Brine Valve, 1710, 2750, 1.2 gpm |
| | | 60605-15 | Brine Valve, 1710, 2750, 1.5 gpm |
| | | 60605-20 | Brine Valve, 1710, 2750, 2.0 gpm |
| | | 60605-24 | Brine Valve, 1710, 2750, 2.4 gpm |
| | | 60605-30 | Brine Valve, 1710, 2750, 3.0 gpm |
| | | 60605-40 | Brine Valve, 1710, 2750, 4.0 gpm |
| | | 60605-50 | Brine Valve, 1710, 2750, 5.0 gpm |

Not Shown

- 1 19151 Washer, Flow, 1.0 gpm
- 1 17996 Disperser, Air, Injector
- 1 414193-00 Label, Blank, BLFC, 1710

2-INCH BRASS METER ASSEMBLY



60393 Rev E

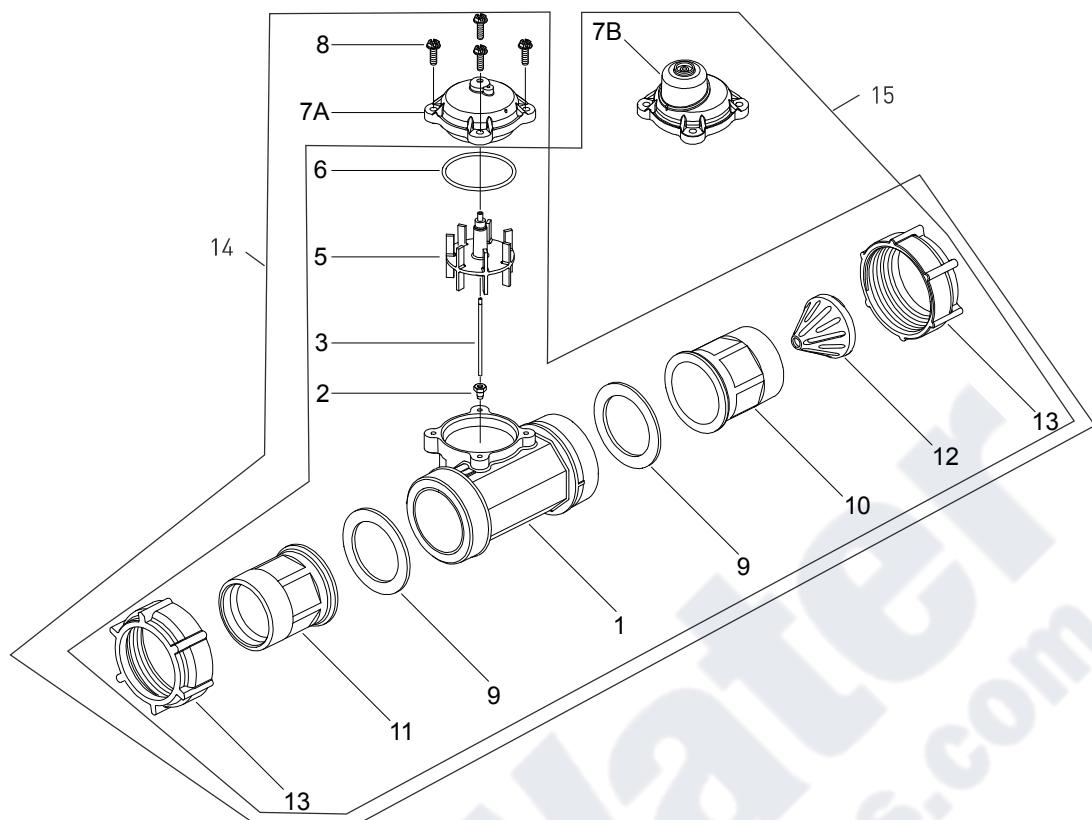
| Item No. | QTY | Part No. | Description |
|----------|-----|----------|--|
| 1 | 1 | 14456 | Body, Meter, 2-inch |
| | | 14456-20 | Body, Meter, 2-inch, BSP, Metric |
| 2 | 1 | 15532 | Seat, Impeller Shaft, Hex |
| 3 | 1 | 15432 | Shaft |
| 5 | 1 | 15374 | Impeller Assy, 2-inch Meter |
| 6 | 1 | 13847 | O-ring, -137, Std/560CD, Meter |
| 7A | 1 | 14038 | Meter Cap Assembly, Std, Plastic |
| 7B | 1 | 15150 | Meter Cap Assembly, 3/4-inch to 2-inch, Ext Plastic, Pdl |
| 8 | 4 | 12112 | Screw, Hex Hd Mach, 10-24 x 1/2 18-8 Stainless Steel |
| | | 15886 | Screw, Hex Hd, M5 x 12 SS, Metric |
| 9 | 1 | 14679 | O-ring, -227, Meter |
| 10 | 1 | 14568 | Fitting, Nipple, 2-inch |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|---|
| | | 14568-10 | Fitting, Nipple, 2-inch BSP, Brass |
| 11 | 1 | 14680 | Flow Straightener |
| 12 | 1 | 14569 | Nut, 2900 Meter |
| 13 | | | Meter Assy, 2-inch Inline, NPT, STD, Brass, Paddlewheel |
| | | | Meter Assy, 2-inch Inline, BSP, STD, Brass, Paddlewheel |
| 14 | | | Meter Assy, 2-inch Inline, NPT, EXT, Brass Paddlewheel |
| | | | Meter Assy, 2-inch Inline, BSP, EXT, Brass, Paddlewheel |

Not Shown

..... 61439 Meter Sleeve w/O-rings, 1-1/2 inch

2-INCH PLASTIC METER ASSEMBLY

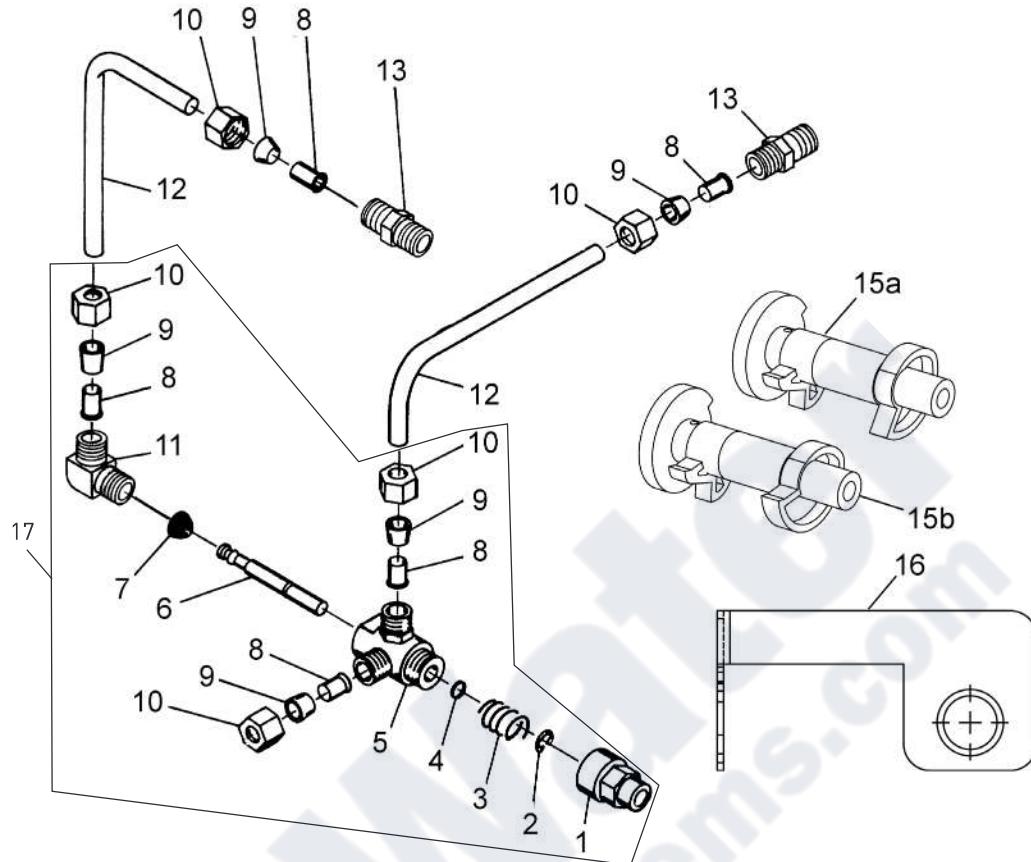


60621 Rev D

| Item No. | QTY | Part No. | Description |
|----------|-----|-----------|--|
| 1 | 1 | 17689 | Body, Meter, 2-inch Plastic w/Impeller Shaft Seat |
| 2 | 1 | 15532 | Seat, Impeller Shaft, Hex |
| 3 | 1 | 15432 | Shaft, Impeller, Stainless Steel |
| 5 | 1 | 15374 | Impeller Assy, 2-inch Meter |
| 6 | 1 | 13847 | O-ring, -137, Std/560CD, Meter |
| 7A | 1 | 14038 | Meter Cap Assembly |
| 7B | 1 | 15150 | Meter Cap Assembly, EXT |
| 8 | 4 | 12473 | Screw, Hex Wsh, 10-24 x 5/8 18-8 Stainless Steel |
| 9 | 2 | 40666 | Seal, Face, 2-inch, Plastic Meter |
| 10A | 1 | 17987-001 | Fitting, Nipple, 2-inch, Plastic, NPT, Machined, Flow Straightener |
| 10B | 1 | 17987-101 | Fitting, Nipple, 2-inch, Plastic, BSP, Machined, Flow Straightener |
| 11A | 1 | 17987-000 | Fitting, Nipple, 2-inch, Plastic, NPT |
| 11B | 1 | 17987-100 | Fitting, Nipple, 2-inch, Plastic, BSP |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|---|
| 12 | 1 | 14680 | Flow Straightener |
| 13 | 2 | 17988 | Nut, 2-inch Meter |
| 14 | 1 | 60620 | Meter Assy, 2-inch, Inline, NPT, STD, Plastic, w/Plastic Nipples, Paddlewheel |
| | | 60620-01 | Meter Assy, 2-inch, Inline, NPT, STD, Plastic, w/Brass Nipples, Paddlewheel |
| | | 60620-10 | Meter Assy, 2-inch Inline, BSP, STD, Plastic, Plastic Nipples, Paddlewheel |
| | | 60620-11 | Meter Assy, 2-inch, Inline, BSP, STD, Plastic, Brass Nipples, Paddlewheel |
| 15 | 1 | 60621 | Meter Assy, 2-inch, Inline, NPT, EXT, Plastic, w/Plastic Nipples, Paddlewheel |
| | | 60621-01 | Meter Assy, 2-inch, Inline, NPT, EXT, Plastic, w/Brass Nipples, Paddlewheel |
| | | 60621-10 | Meter Assy, 2-inch Inline, BSP, EXT, Plastic, Plastic Nipples, Paddlewheel |
| | | 60621-11 | Meter Assy, 2-inch, Inline, BSP, EXT, Plastic, Brass Nipples, Paddlewheel |

1600 SERVICE VALVE OPERATOR (NEW STYLE)

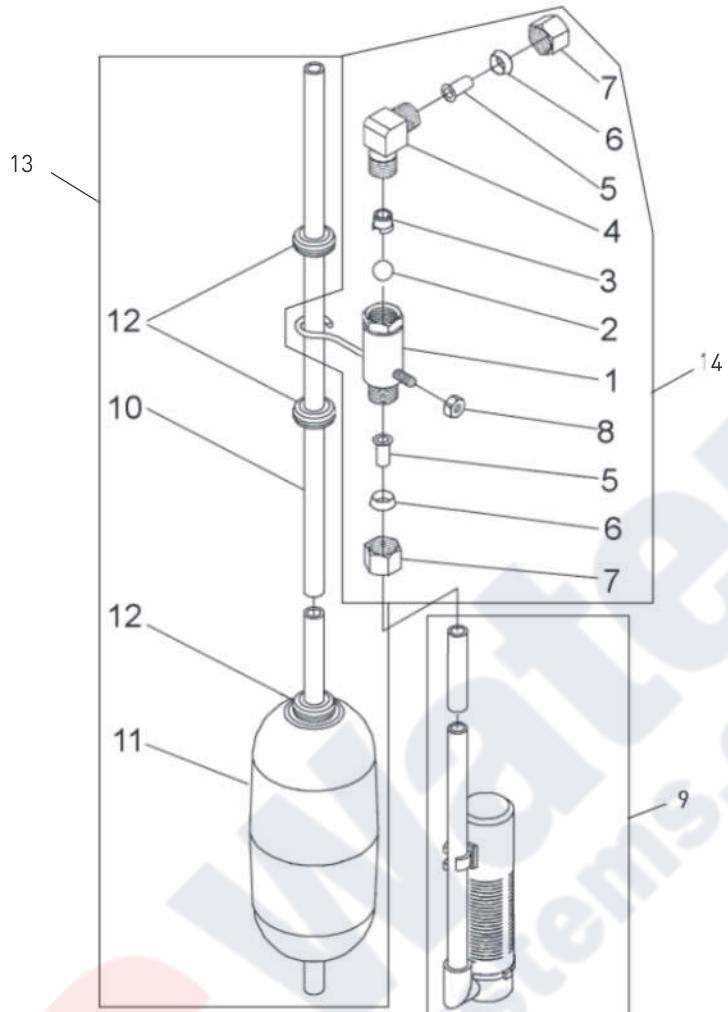


60150 Rev A

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|---|
| 1 | 1 | 11749 | Guide, Brine Valve Stem |
| 2 | 1 | 10250 | Ring, Retaining |
| 3 | 1 | 10249 | Spring, Brine Valve |
| 4 | 1 | 12550 | Quad Ring, -009 |
| 5 | 2 | 10785 | SVO Body Assy Brass Valves |
| 6 | 1 | 12552 | Brine Valve Stem, 1600 |
| 7 | 1 | 12626 | Seat, Brine Valve |
| 8 | 5 | 10332 | Fitting, Insert, 3/8-inch |
| 9 | 5 | 10330 | Fitting, Sleeve, 3/8-inch Celcon |
| 10 | 5 | 10329 | Fitting, Tube, 3/8 Nut, Brass |
| 11 | 1 | 10328 | Fitting, Elbow, 90 Deg 1/4 NPT x 3/8 Tube |
| 12 | 2 | 12897 | Tube, Fitting, 3/8 x 9 3/4 |
| 13 | 1 | 16730 | Fitting, Male, 1/4 x 1 |

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|--|
| 14 | 2 | 15415 | Fitting, Insert, 1/2-inch Tube |
| 15a | 1 | 12472 | Cam Assembly, Tri-Stack, After RR |
| 15b | 1 | 15770 | Cam Assembly, Special Tri-Stack After Brine Fill |
| 16 | 1 | 12114 | Bracket, Motor Outboard, Coated |
| 17 | 1 | 60150-01 | Service Valve Operator Assembly, 1600, New Style, Item No's 1-11 |

2300 SAFETY BRINE VALVE

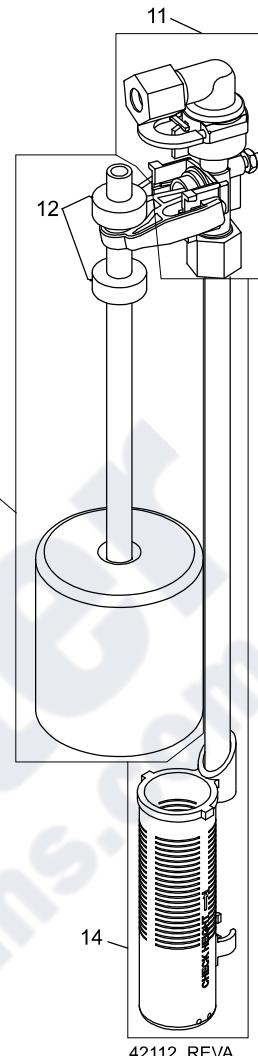
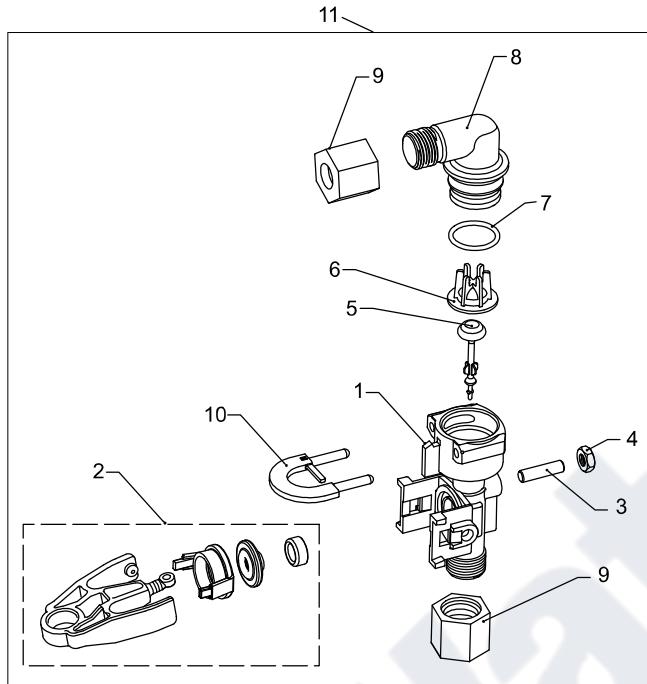


60027 Rev D

| Item No. | QTY | Part No. | Description |
|----------|-----|----------|--|
| 1 | 1 | 60027-00 | Safety Brine Valve, 2300, Less Elbow |
| 2 | 1 | 10138 | Ball, 3/8-inch, Brass |
| 3 | 1 | 11566 | Ball Stop, Slow Fill |
| 4 | 1 | 10328 | Fitting, Elbow, 90 Deg. 1/4 NPT x 3/8 Tube |
| 5 | 1 | 10332 | Fitting, Insert, 3/8 |
| 6 | 1 | 10330 | Fitting, Sleeve, 3/8 Celcon |
| 7 | 1 | 10329 | Fitting, Tube, 3/8 Nut, Brass |
| 8 | 1 | 10186 | Nut, Hex, 10-32 |
| 9 | 1 | 60002-10 | Air Check, #500, American Hydro 60002-11.38....Air Check, #500, 11.38 inches Long 60002-24.....Air Check, #500, 24 inches Long 60002-27.....Air Check, #500, 27 inches Long 60002-32.....Air Check, #500, 32 inches Long 60002-34.....Air Check, #500, 34 inches Long |

| Item No. | QTY | Part No. | Description |
|----------|-----|-------------|---|
| | | 60002-36 | Air Check, #500, 36 inches Long |
| | | 60002-48 | Air Check, #500, 48 inches Long |
| | | 60002-26.25 | Air Check, #500, 26.25 inches Long |
| | | 60002-33.25 | Air Check, #500, 33.25 inches Long |
| 10 | 1 | 10149 | Rod, Float, 30-inch |
| 11 | 1 | 10700 | Float Assy, White |
| 12 | 3 | 10150 | Grommet, .30 Dia |
| 13 | 1 | 60028-30 | Float Assy, 2300, 30-inch White |
| 14 | 1 | 60027-FFA | Safety Brine Valve, 2300, Fitting Facing Arm |
| 1 | 1 | 60027-FFS | Safety Brine Valve, 2300, Fitting Facing Stud |

2310 SAFETY BRINE VALVE

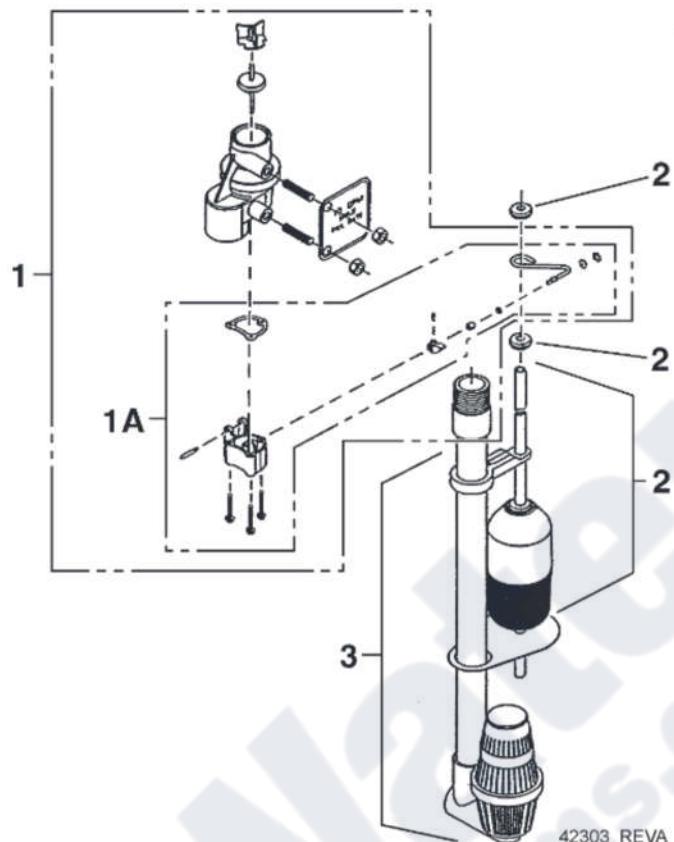


42112_REVA

| Item No. | QTY | Part No. | Description |
|----------|-----|------------|-----------------------------------|
| 1 | 1 | 19645 | Body, Safety Brine Valve, 2310 |
| 2 | 1 | 19803 | Safety Brine Valve Assy |
| 3 | 1 | 19804 | Screw, Sckt Hd, Set, 10-24 x .75 |
| 4 | 1 | 19805 | Nut, Hex, 10-24, Nylon Black |
| 5 | 1 | 19652-01 | Poppet Assy, SBV w/O-ring |
| 6 | 1 | 19649 | Flow Dispenser |
| 7 | 1 | 11183 | O-ring, -017 |
| 8 | 1 | 19647 | Elbow, Safety Brine Valve |
| 9 | 2 | 19625 | Nut Assy, 3/8-inch Plastic |
| 10 | 1 | 18312 | Retainer, Drain |
| 11 | 1 | 60014 | Safety Brine Valve Assy, 2310 |
| 12 | 2 | 10150 | Grommet, .30 Dia |
| 13 | 1 | 60068-8.06 | Float Assy, 2310, w/8.06-inch Rod |
| | | 60068-10.5 | Float Assy, 2310, w/10.5-inch Rod |
| | | 60068-11.5 | Float Assy, 2310, w/11.5-inch Rod |
| | | 60068-20 | Float Assy, 2310, w/20-inch Rod |

| Item No. | QTY | Part No. | Description |
|----------|-----|-------------|----------------------------------|
| | | 60068-30 | Float Assy, 2310, w/30-inch Rod |
| 14 | 1 | 60002-10 | Air Check, #500, American Hydro |
| | | 60002-11.38 | Air Check, #500, 11.38-inch Long |
| | | 60002-24 | Air Check, #500, 24-inch Long |
| | | 60002-27 | Air Check, #500, 27-inch Long |
| | | 60002-32 | Air Check, #500, 32-inch Long |
| | | 60002-34 | Air Check, #500, 34-inch Long |
| | | 60002-36 | Air Check, #500, 36-inch Long |
| | | 60002-48 | Air Check, #500, 48-inch Long |
| | | 60002-26.25 | Air Check, #500, 26.25-inch Long |
| | | 60002-33.25 | Air Check, #500, 33.25-inch Long |

2350 SAFETY BRINE VALVE



| Item No. | QTY | Part No. | Description |
|-----------------|------------|-----------------|--|
| 1 | 1 | 60038 | Safety Brine Valve, 2350 |
| 1A | 1 | 61024 | Actuator Assy, 2350 Brine |
| 2 | 1 | 60028-30 | Float Assy, 2350, 30-inch Wht |
| | 1 | 60026-30SAN | Float Assy, 2350, 30-inch Hot Water |
| 3 | 1 | 60009-00 | Air Check, #900, Commercial Less Fittings |
| | 1 | 60009-01 | Air Check, #900, Commercial, Hot Water Less Fittings |

Not Shown

- 1 18603 Fitting Assy, 900 Air Check 2350
- 1 18602 Fitting Assy, 900 Air Check

GENERAL SERVICE HINTS FOR METER CONTROL

Problem: Softener delivers hard water

Reason: Reserve capacity has been exceeded.

Correction: Check salt dosage requirements and reset program wheel to provide additional reserve.

Reason: Program wheel is not rotating with meter output.

Correction: Pull cable out of meter cover and rotate manually. Program wheel must move without binding and clutch must give positive clicks when program wheel strikes regeneration stop. If it does not, replace timer.

Reason: Meter is not measuring flow.

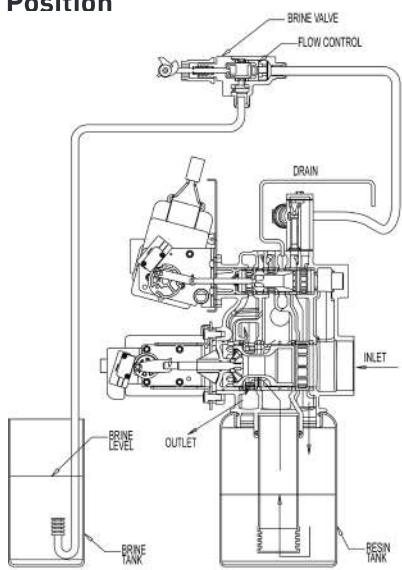
Correction: Check meter with meter checker.

TROUBLESHOOTING

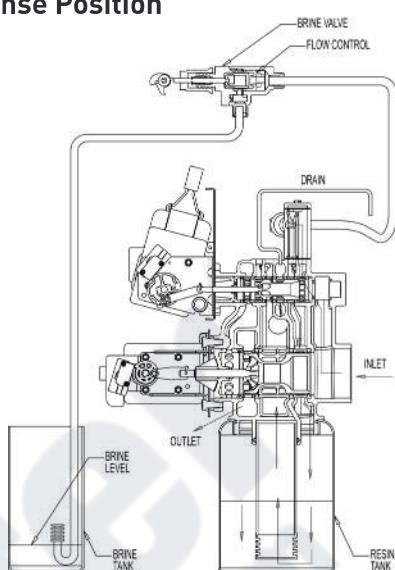
| Problem | Cause | Correction |
|--|--|---|
| Water conditioner fails to regenerate. | Electrical service to unit has been interrupted | Assure permanent electrical service (check fuse, plug, pull chain, or switch) |
| | Timer is defective. | Replace timer. |
| | Power failure. | Reset time of day. |
| Hard water. | By-pass valve is open. | Close by-pass valve. |
| | No salt is in brine tank. | Add salt to brine tank and maintain salt level above water level. |
| | Injector screen plugged. | Clean injector screen. |
| | Insufficient water flowing into brine tank. | Check brine tank fill time and clean brine line flow control if plugged. |
| | Hot water tank hardness. | 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. |
| | Internal valve leak. | Replace seals and spacers and/or piston. |
| Unit used too much salt. | Improper salt setting. | Check salt usage and salt setting. |
| | Excessive water in brine tank. | See "Excessive water in brine tank". |
| Loss of water pressure. | Iron buildup in line to water conditioner. | Clean line to water conditioner. |
| | Iron buildup in water conditioner. | Clean control and add mineral cleaner to mineral bed. Increase frequency of regeneration. |
| | Inlet of control plugged due to foreign material broken loose from pipes by recent work done on plumbing system. | Remove piston and clean control. |
| Loss of mineral through drain line. | Air in water system. | Assure that well system has proper air eliminator control. Check for dry well condition. |
| | Improperly sized drain line flow control. | Check for proper drain rate. |
| Iron in conditioned water. | Fouled mineral bed. | Check backwash, brine draw, and brine tank fill. Increase frequency of regeneration. Increase backwash time. |
| Excessive water in brine tank. | Plugged drain line flow control. | Clean flow control. |
| | Plugged injector system. | Clean injector and screen. |
| | Timer not cycling. | Replace timer. |
| | Foreign material in brine valve. | Replace brine valve seat and clean valve. |
| | Foreign material in brine line flow control. | Clean brine line flow control. |
| Softener fails to draw brine. | Drain line flow control is plugged. | Clean drain line flow control. |
| | Injector is plugged. | Clean injector |
| | Injector screen plugged. | Clean screen. |
| | Line pressure is too low. | Increase line pressure to 20 psi |
| | Internal control leak | Change seals, spacers, and piston assembly. |
| | Service adapter did not cycle. | Check drive motor and switches. |
| Control cycles continuously. | Misadjusted, broken, or shorted switch. | Determine if switch or timer is faulty and replace it, or replace complete power head. |
| Drain flows continuously. | Valve is not programming correctly. | Check timer program and positioning of control. Replace power head assembly if not positioning properly. |
| | Foreign material in control. | Remove power head assembly and inspect bore. Remove foreign material and check control in various regeneration positions. |
| | Internal control leak. | Replace seals and piston assembly. |

WATER CONDITIONER FLOW DIAGRAMS - DNDFLOW

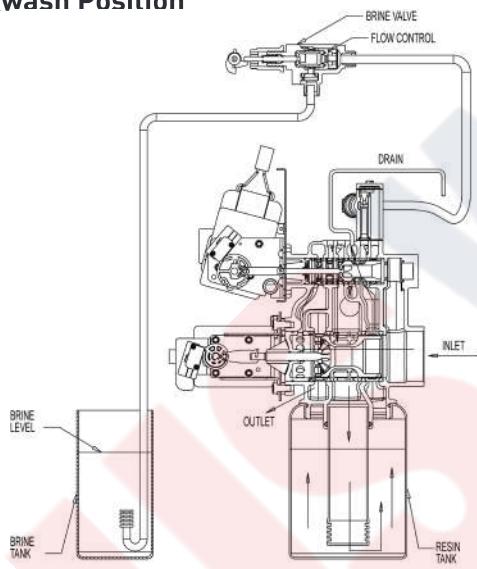
1 Service Position



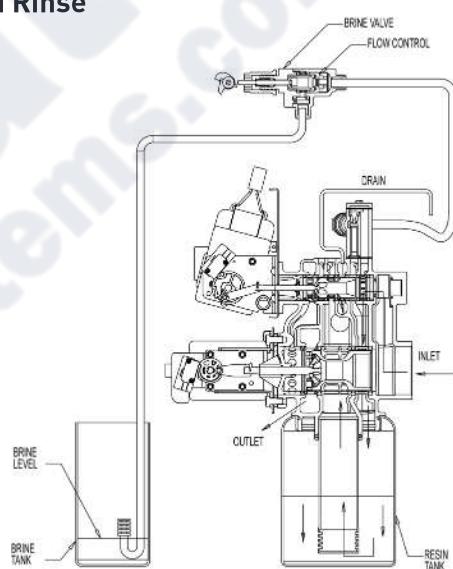
4 Slow Rinse Position



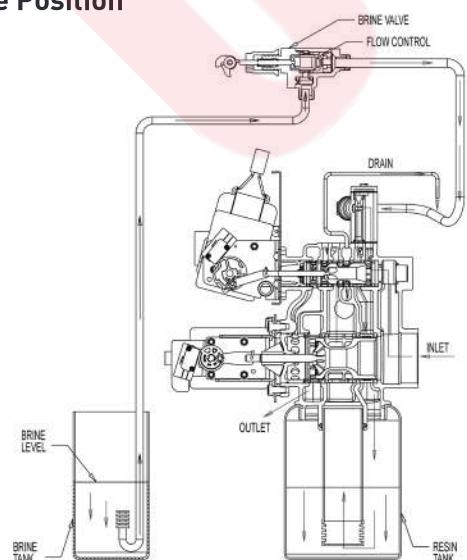
2 Backwash Position



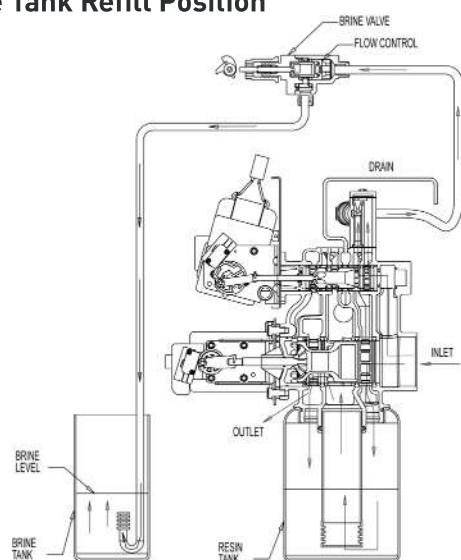
5 Rapid Rinse



3 Brine Position

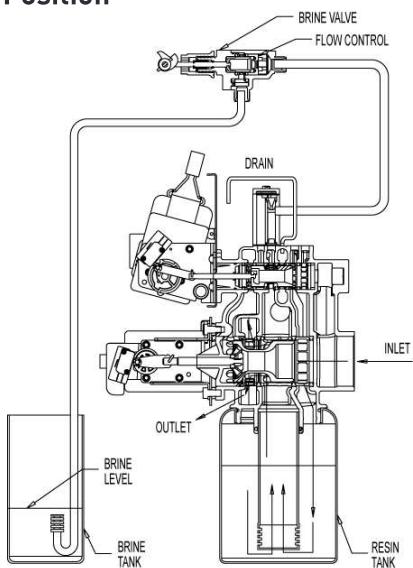


6 Brine Tank Refill Position

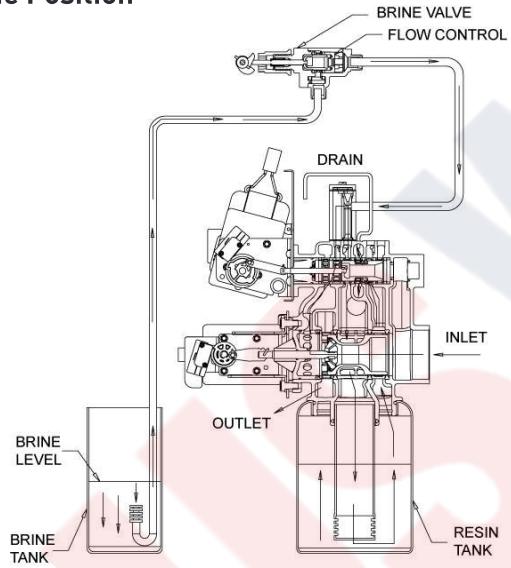


WATER CONDITIONER FLOW DIAGRAMS - UPFLOW

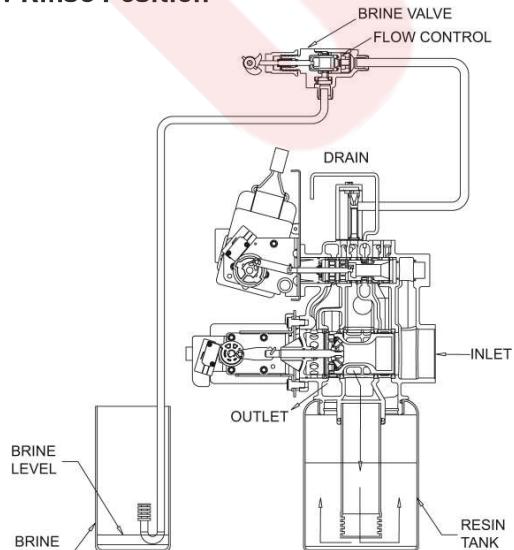
1 Service Position



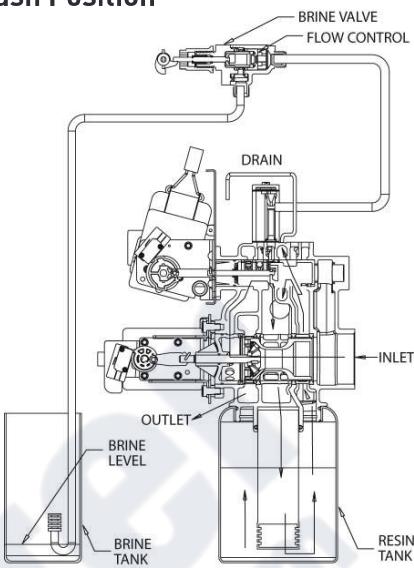
2 Brine Position



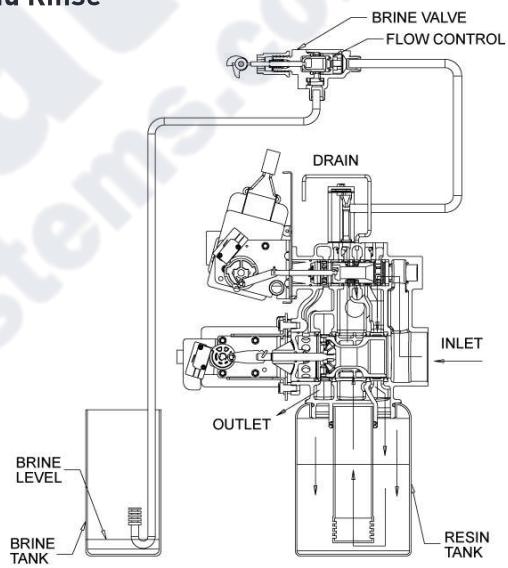
3 Slow Rinse Position



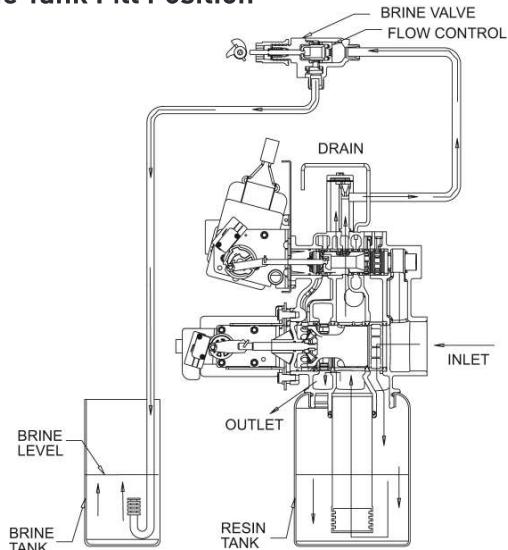
4 Back Wash Position



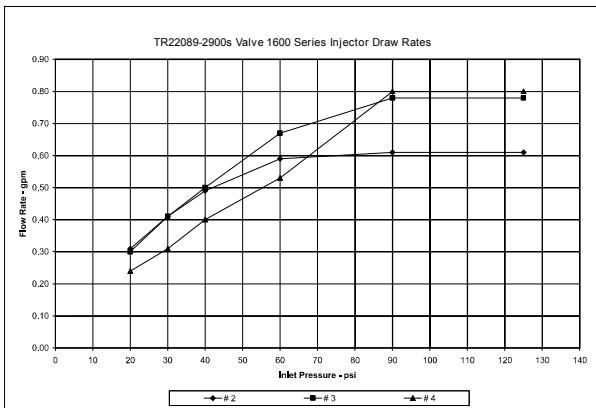
5 Rapid Rinse



6 Brine Tank Fill Position

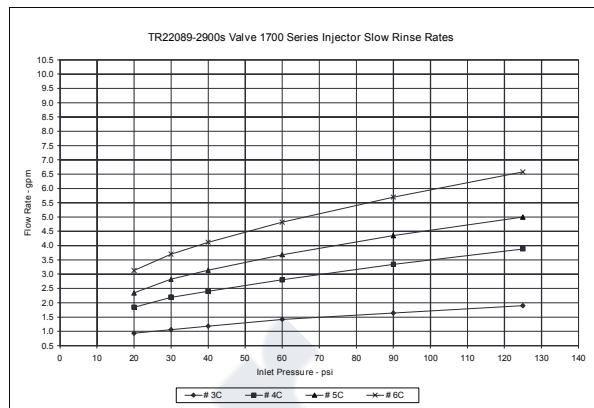


FLOW DATA & INJECTOR DRAW RATES - DOWNFLOW



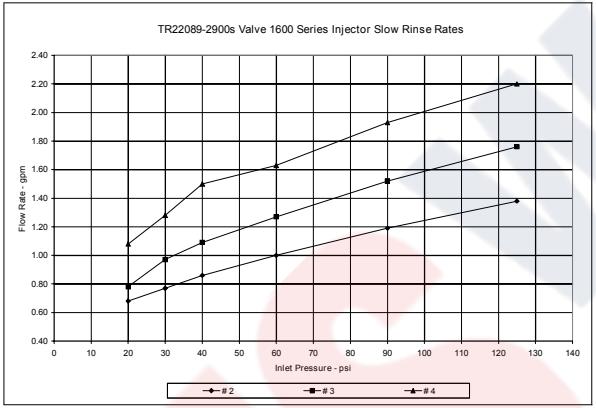
| 1600 series injectors | | Draw Rate - gpm | | |
|-----------------------|------|-----------------|------|--|
| pressure | # 2 | # 3 | # 4 | |
| 20 | 0.31 | 0.30 | 0.24 | |
| 30 | 0.41 | 0.41 | 0.31 | |
| 40 | 0.49 | 0.50 | 0.40 | |
| 60 | 0.59 | 0.67 | 0.53 | |
| 90 | 0.61 | 0.78 | 0.80 | |
| 125 | 0.61 | 0.78 | 0.80 | |

all injectors used the steel cap and an air disperser



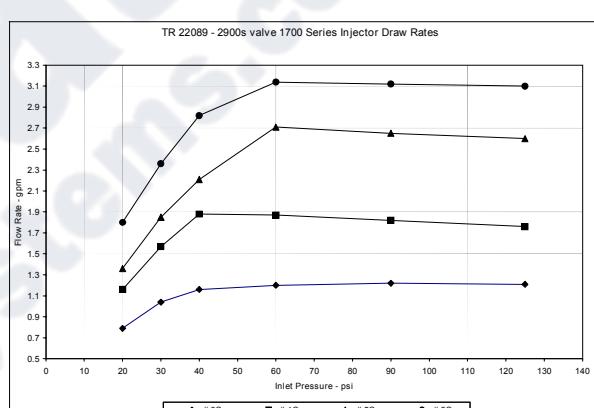
| 1700 series injectors | | Slow Rinse - gpm | | | |
|-----------------------|------|------------------|------|------|--|
| pressure | # 3C | # 4C | # 5C | # 6C | |
| 20 | 0.93 | 1.84 | 2.34 | 3.13 | |
| 30 | 1.06 | 2.19 | 2.82 | 3.70 | |
| 40 | 1.18 | 2.40 | 3.14 | 4.12 | |
| 60 | 1.42 | 2.80 | 3.68 | 4.82 | |
| 90 | 1.64 | 3.34 | 4.35 | 5.70 | |
| 125 | 1.90 | 3.88 | 5.00 | 6.58 | |

#3C - steel cap, no o-ring, air disperser
#4C & 5C - steel cap, o-ring, air disperser
#6C & 7C - brass cap, o-ring, no air disperser



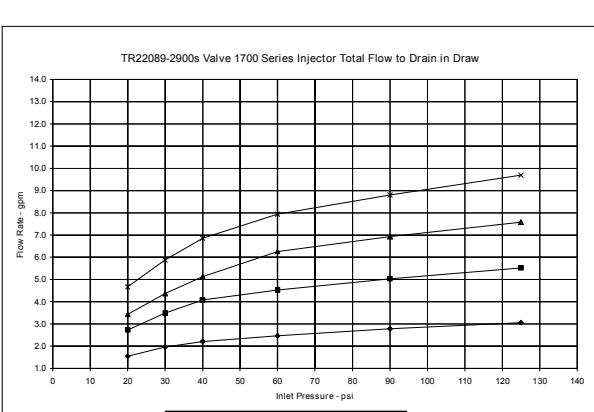
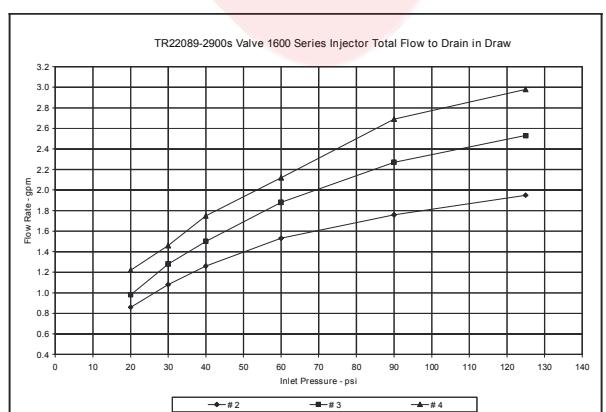
| 1600 series injectors | | Slow Rinse Rates - gpm | | |
|-----------------------|------|------------------------|------|--|
| pressure | # 2 | # 3 | # 4 | |
| 20 | 0.68 | 0.78 | 1.08 | |
| 30 | 0.77 | 0.97 | 1.28 | |
| 40 | 0.86 | 1.09 | 1.50 | |
| 60 | 1.00 | 1.27 | 1.63 | |
| 90 | 1.19 | 1.52 | 1.93 | |
| 125 | 1.38 | 1.76 | 2.20 | |

all injectors used the steel cap and an air disperser

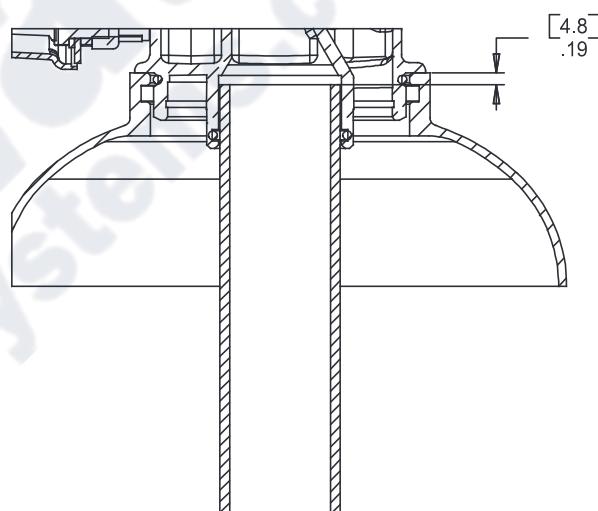
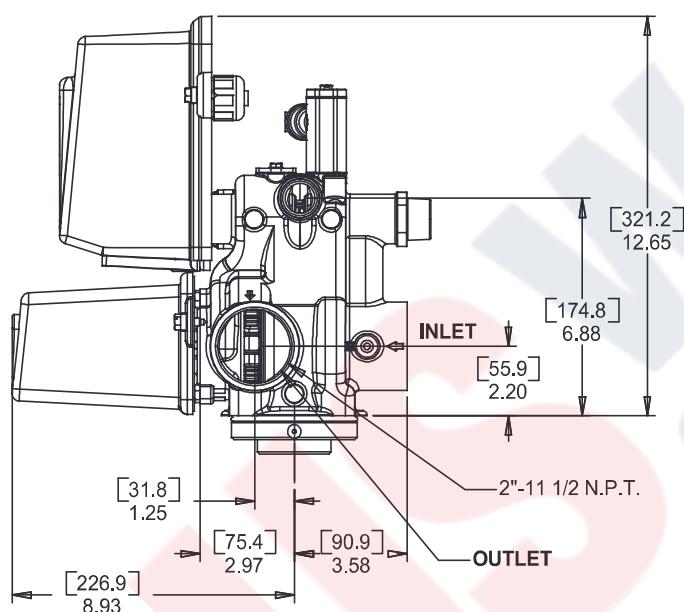
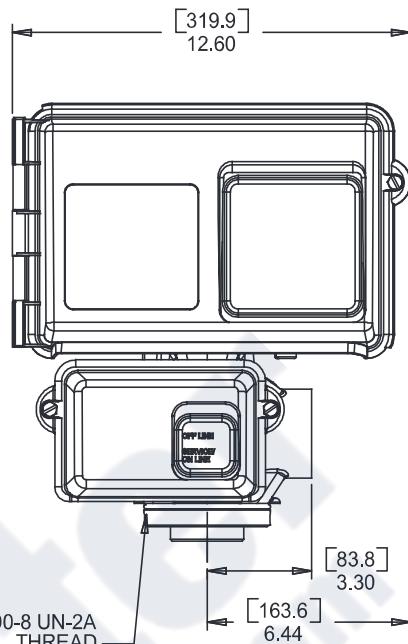
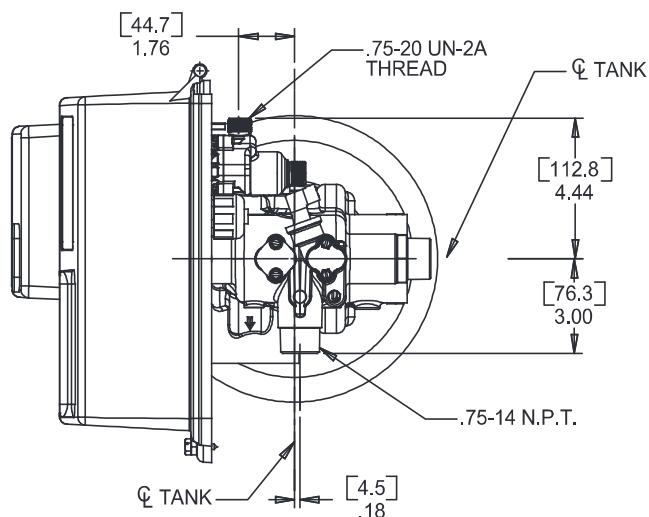


| 1700 series injectors | | Draw Rate - gpm | | | |
|-----------------------|------|-----------------|------|------|--|
| pressure | # 3C | # 4C | # 5C | # 6C | |
| 20 | 0.79 | 1.16 | 1.36 | 1.80 | |
| 30 | 1.04 | 1.57 | 1.85 | 2.36 | |
| 40 | 1.16 | 1.88 | 2.21 | 2.82 | |
| 60 | 1.20 | 1.87 | 2.71 | 3.14 | |
| 90 | 1.22 | 1.82 | 2.65 | 3.12 | |
| 125 | 1.21 | 1.76 | 2.60 | 3.10 | |

#3C - steel cap, no o-ring, air disperser
#4C & 5C - steel cap, o-ring, air disperser
#6C - brass cap, o-ring, no air disperser



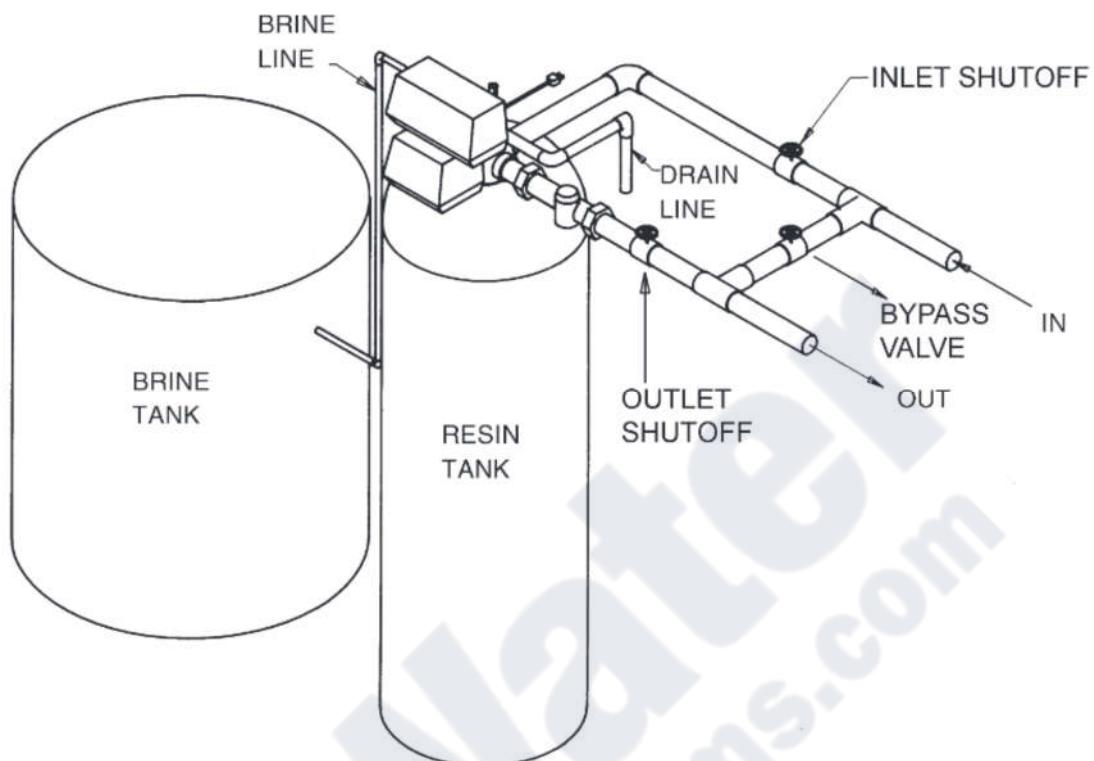
ENVIRONMENTAL BACKPLATE DIMENSIONS



61500-2900LNE Rev B

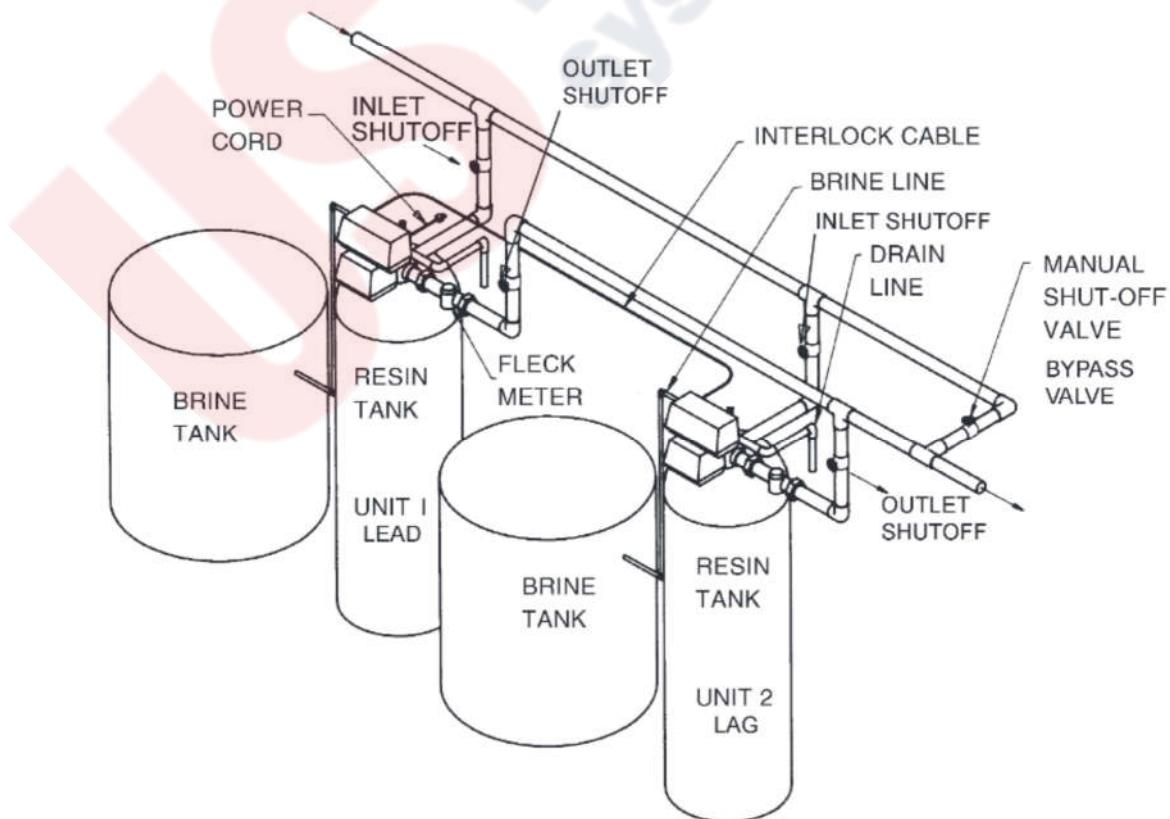
SYSTEM #4

Typical Single Tank Installation with Optional Meter



SYSTEM #5 INTERLOCK

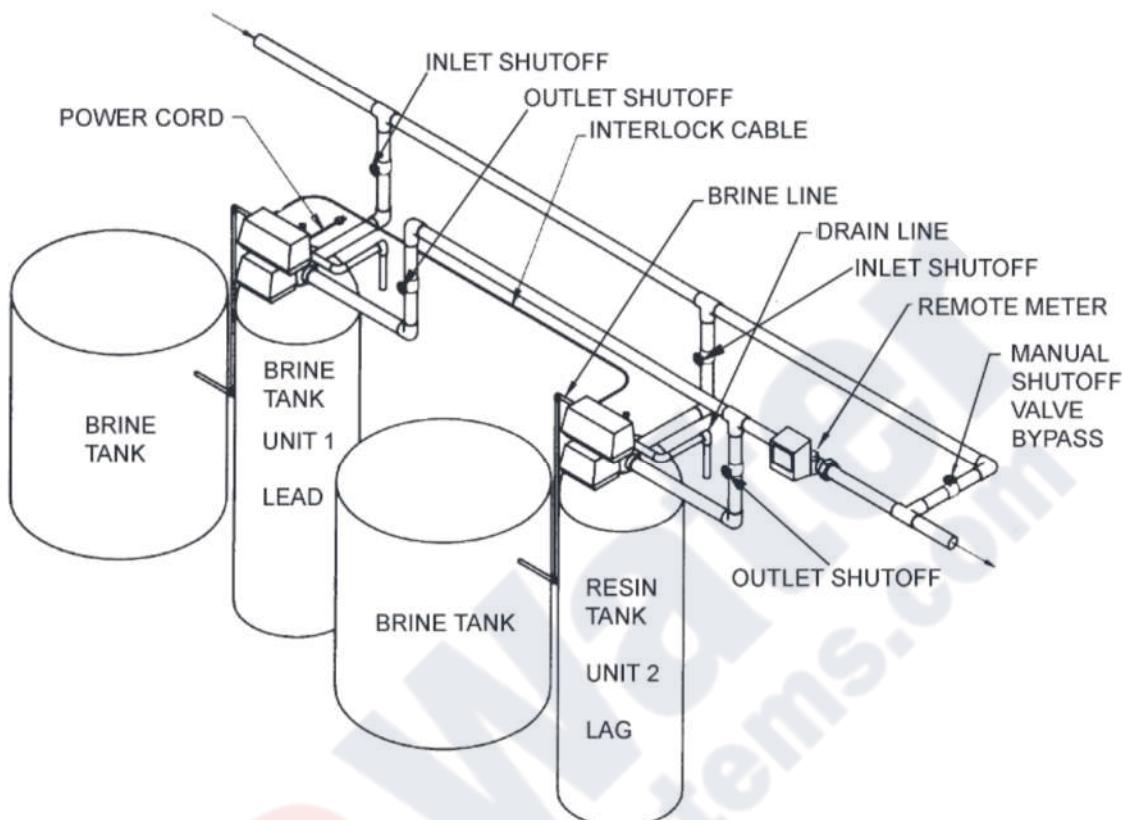
Typical Twin Tank Installation with Optional Meter
Interlock and No Hard Water Bypass



SYSTEM #6 & #7

Twin Series Regeneration Installation with a Remote Meter

Twin Alternator Installation



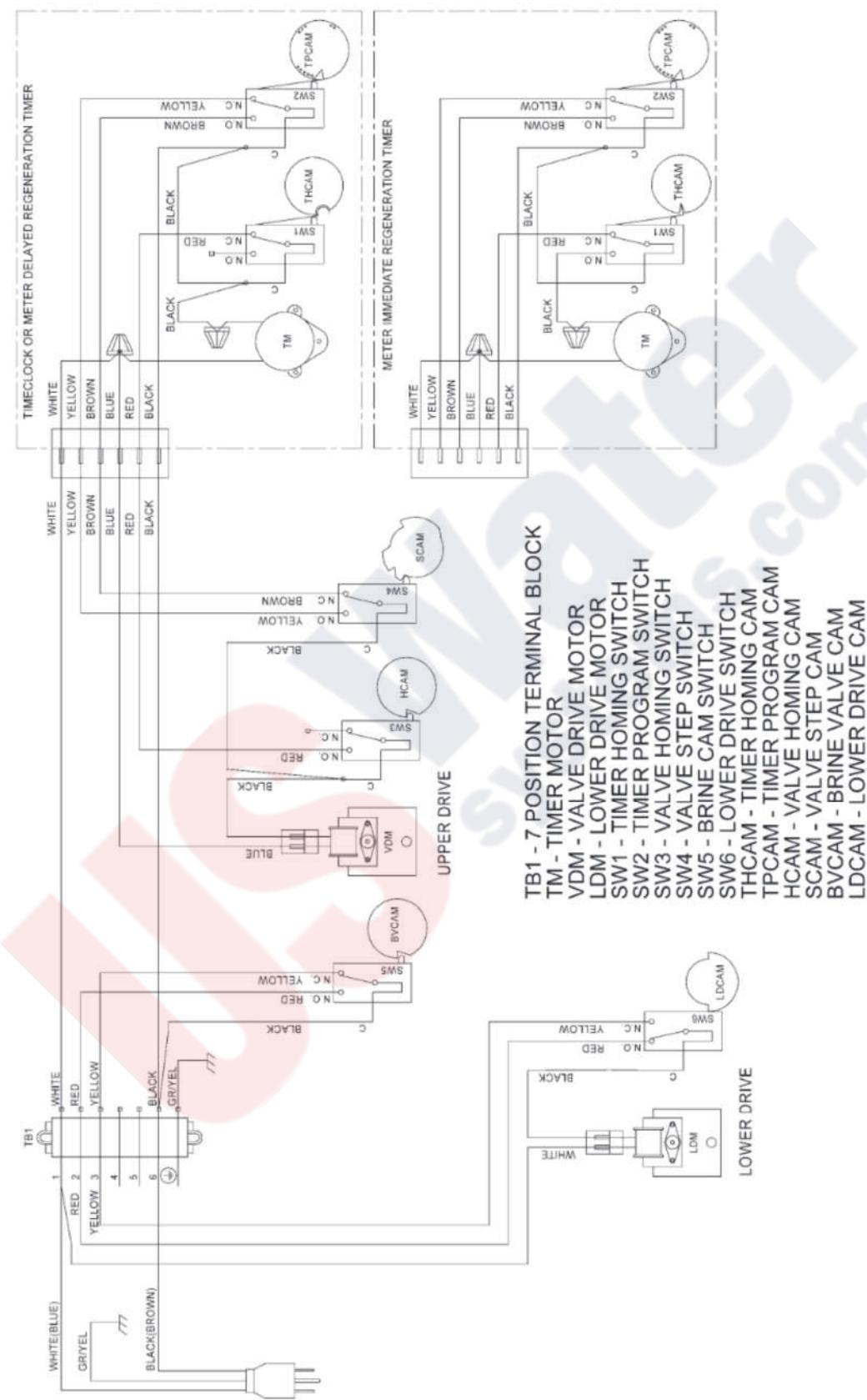
NOTE: On System 7, the power cord is on Unit 2.

NOTE: System 7 can run with either one or two brine tanks.

Two brine tanks should be used if regeneration is less than 4 hours.

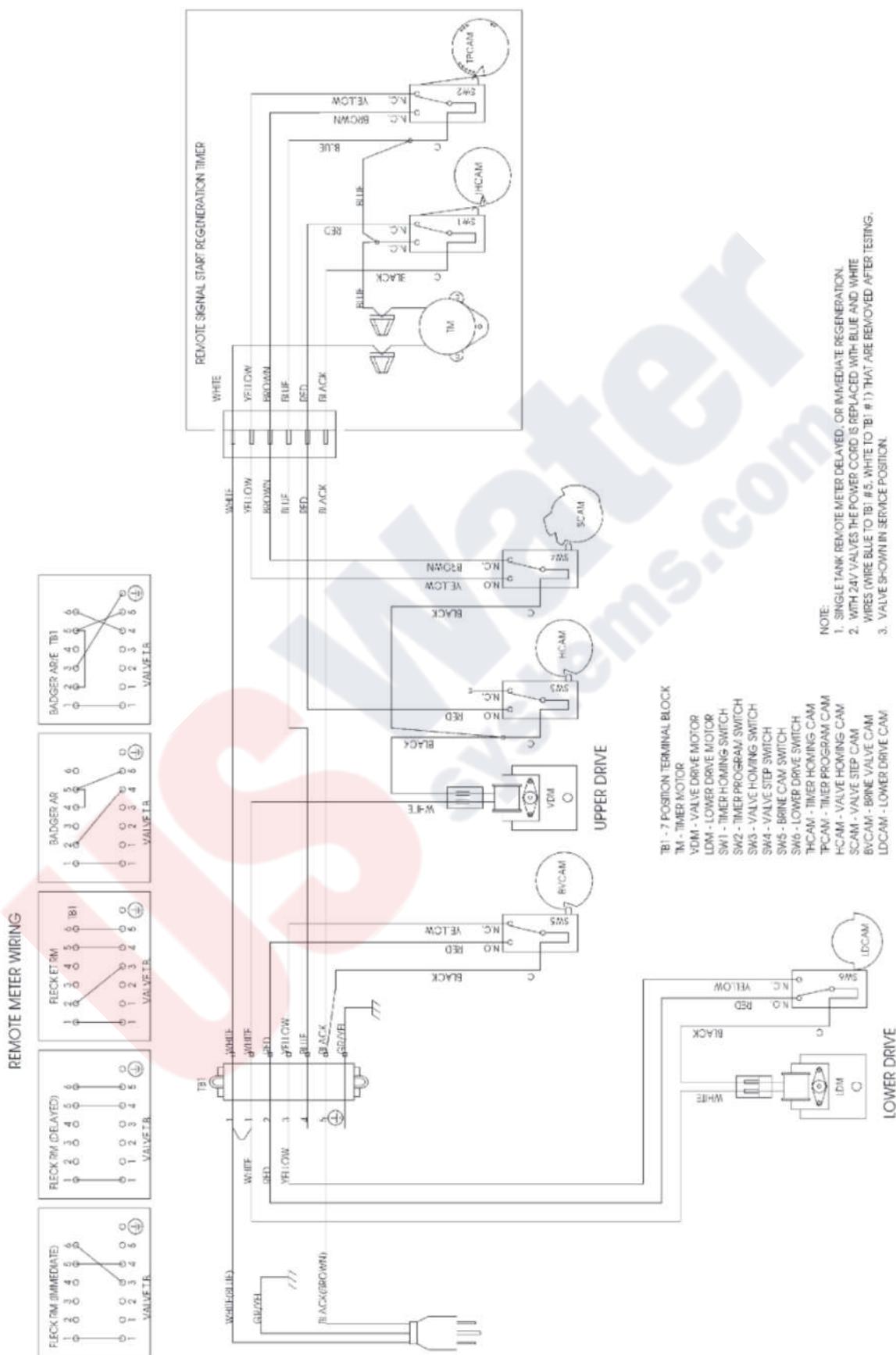
SYSTEM #4 WIRING

Single Valve Regeneration Immediate and Delayed Valve Wiring



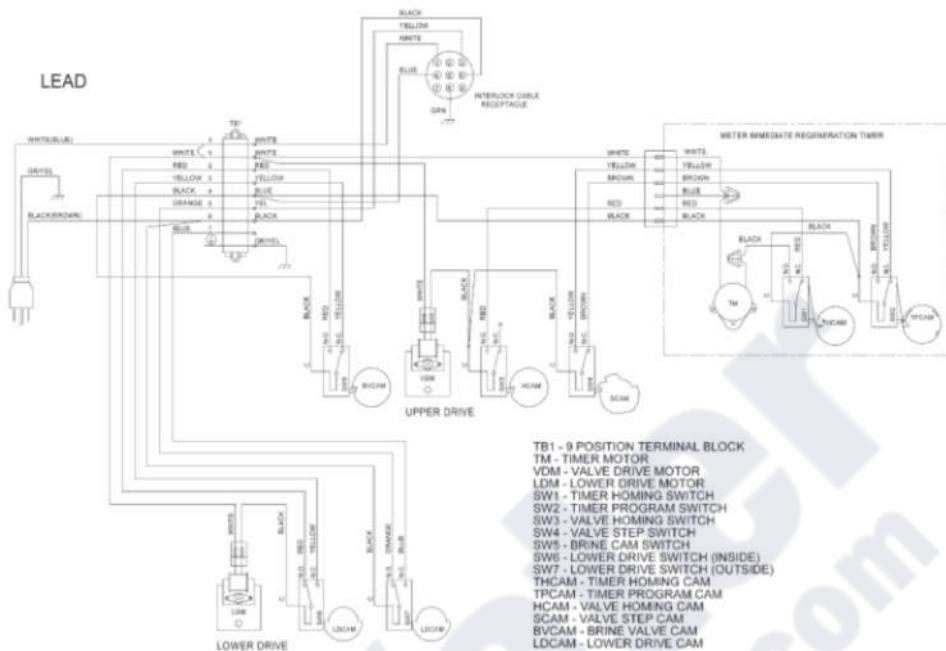
SYSTEM #4 WIRING CONTINUED

With Remote Starter Valve Wiring



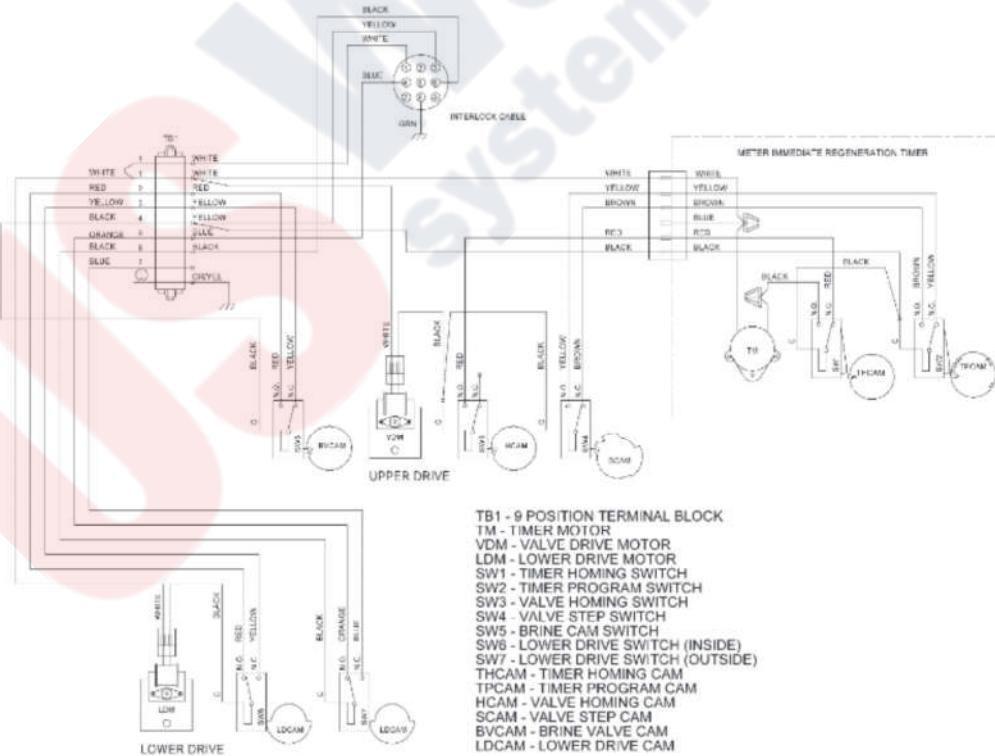
SYSTEM #5 WIRING

Interlocked Regeneration Valve Wiring



18685-01 Rev D

LAG

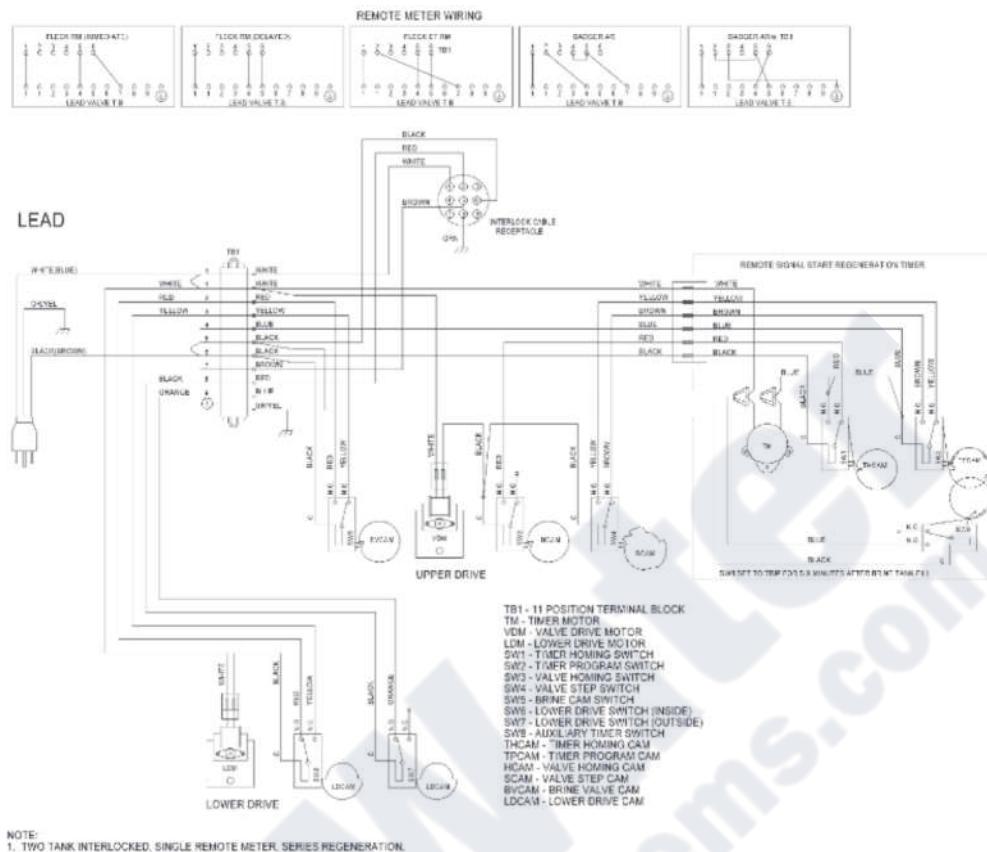


NOTE:
1. TWO TANK INTERLOCKED, INDIVIDUAL METER, IMMEDIATE REGENERATION.
2. BOTH TANKS NORMALLY IN SERVICE. ONLY ONE TANK IN REGENERATION, THE OTHER REMAINS IN SERVICE.
3. VALVE SHOWN IN SERVICE.

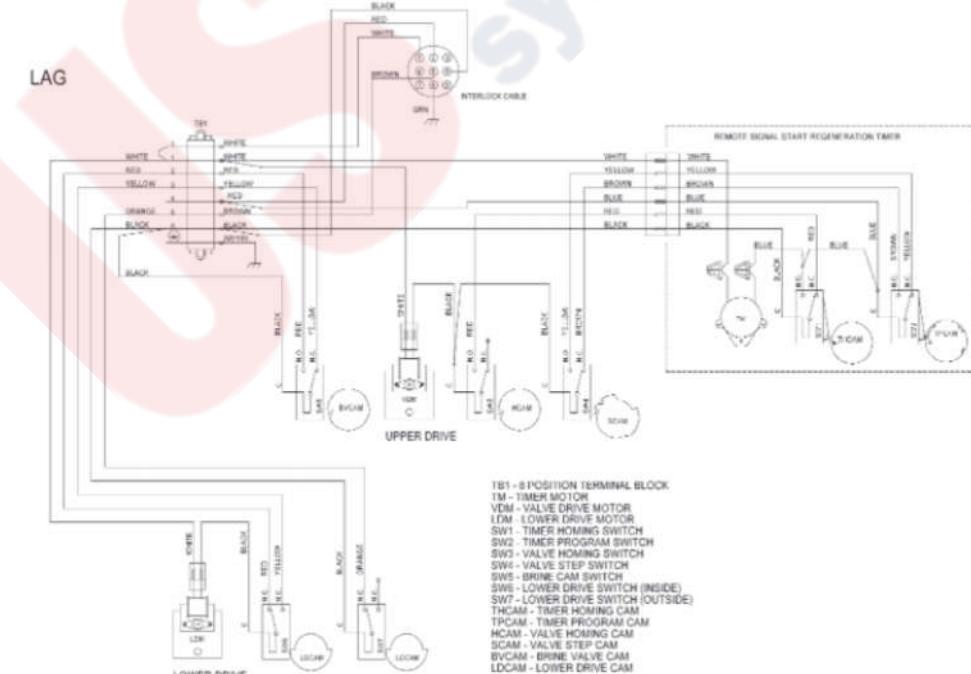
18685-02 Rev D

SYSTEM #6 WIRING

Series Regeneration Valve Wiring



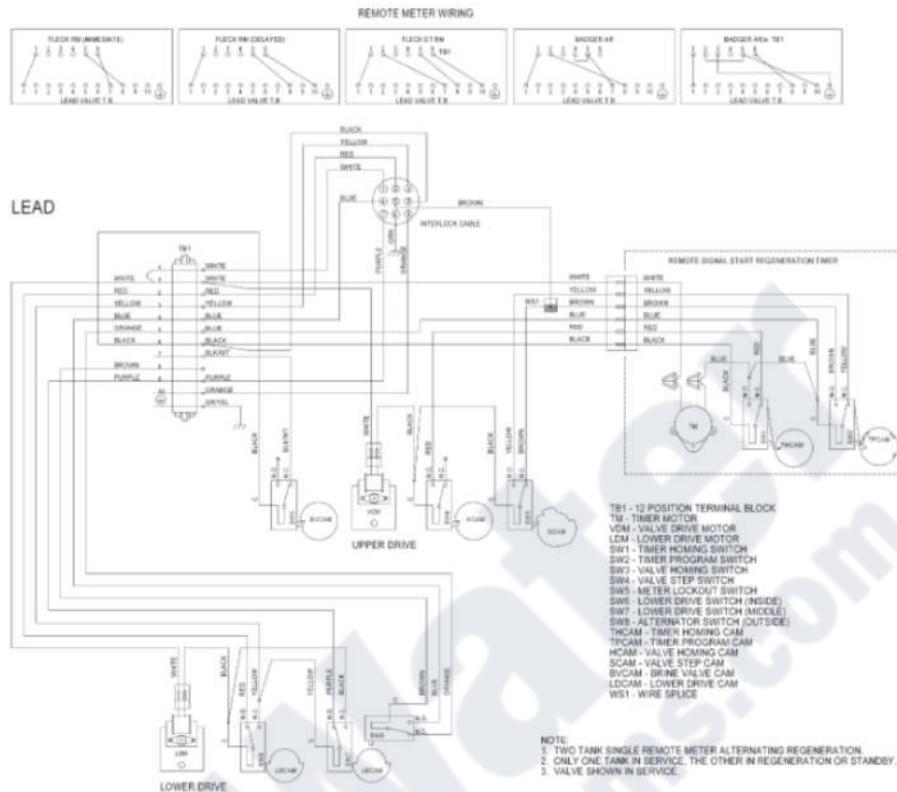
18686-01 Rev E



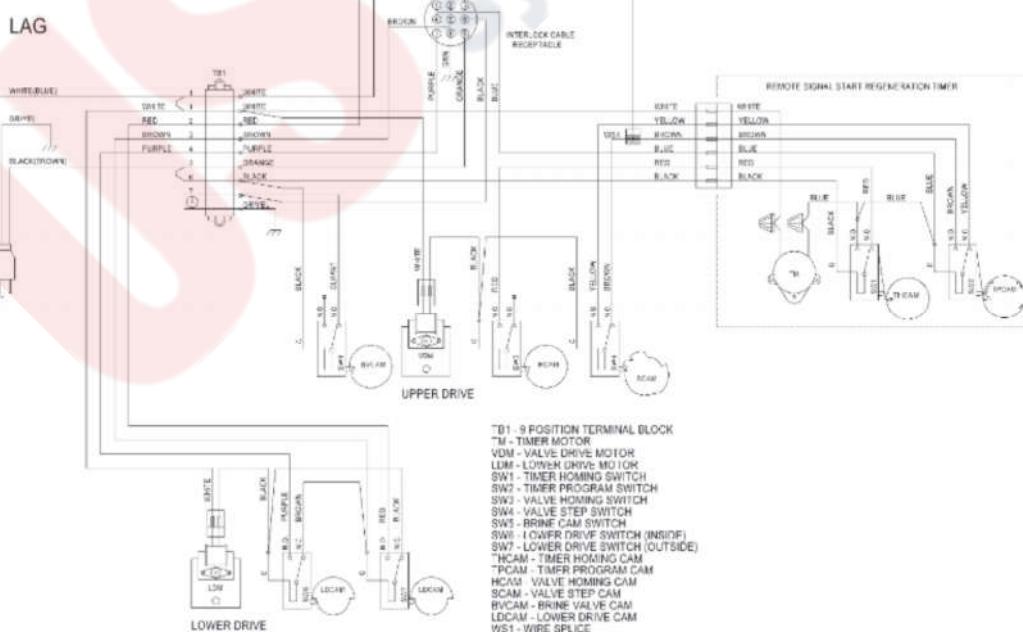
18686-02 Rev E

SYSTEM #7 WIRING

Alternating Regeneration Valve Wiring

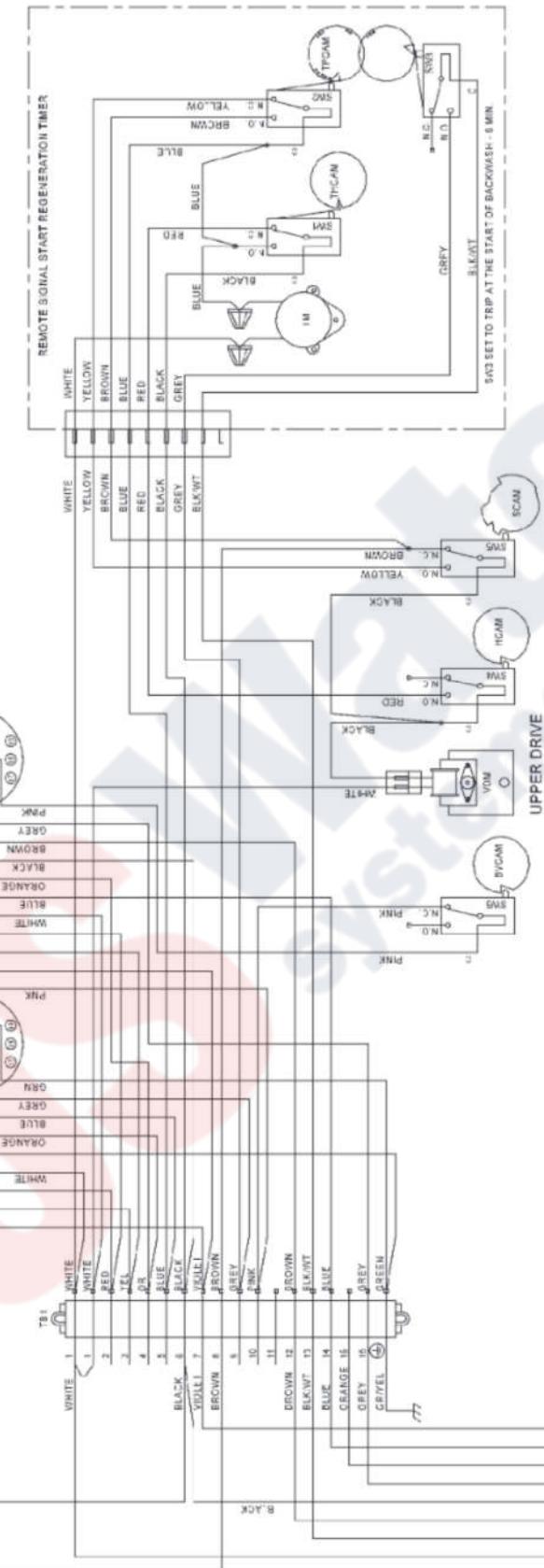


18687-01 Rev E

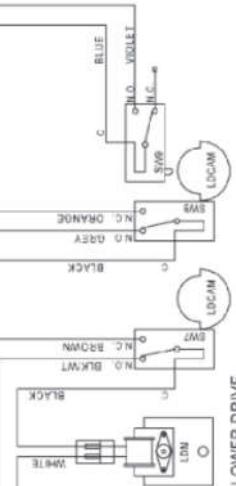


18687-02 Rev E

SYSTEM #7 WIRING CONTINUED



TB1 - 16 POSITION TERMINAL BLK
JP1 - JUMPER PLUG ASSEMBLY
TM - TIMER MOTOR
VDM - VALVE DRIVE MOTOR
LDM - LOWER DRIVE MOTOR
SW1 - TIMER HOMING SWITCH
SW2 - TIMER PROGRAM SWITCH
SW3 - TIMER AUX. SWITCH
SW4 - VALVE HOMING SWITCH
SW5 - VALVE STEP SWITCH
SW6 - BRINE CAM SWITCH
SW7 - LOWER DRIVE SWITCH (INSIDE)
SW8 - LOWER DRIVE SWITCH (MIDDLE)
SW9 - LOWER DRIVE SWITCH (OUTSIDE)
T-CAM - TIMER HOMING CAM
PCAM - PROGRAM CAM
HCAM - HOMING CAM
BCAM - BRINE VALVE CAM
LCAM - LOWER DRIVE CAM



NOTE:
1. TWO TO FOUR TANKS IN SERVICE.
2. TWO 3 TANKS IN STANDBY.
3. ONE TANK IN REGENERATION OR STANDBY.
4. ALL VALVES IN SYSTEM ARE MADE ALIKE.
LAST VALVE IN SYSTEM RECEIVES JUMPER PLUG ASSEMBLY.
CONNECT JUMPER PLUG TO INTERLOCK CABLE RECEPTACLE.
5. SPECIAL MULTIVALE REMOTE METER OR EQUIV. REQUIRED FOR PROPER OPERATION.
6. LEAD VALVE IN TERTIARY CABLE IS CONNECTED TO REMOTE METER.
7. VALVE SHOWN IN SERVICE POSITION.
8. VALVE SHOWN IN SERVICE POSITION.

1600/1700 SYSTEM NOZZLE & THROAT CHART

1600 Brine System

Standard

| Size | Color | Nozzle | Throat |
|---------|--------------|---------|---------|
| #0..... | Red | 10913-0 | 10914-0 |
| #1..... | White | 10913-1 | 10914-1 |
| #2..... | Blue | 10913-2 | 10914-2 |
| #3..... | Yellow | 10913-3 | 10914-3 |
| #4..... | Green..... | 10913-4 | 10914-4 |

PVC

| Size | Color | Nozzle | Throat |
|---------|------------|---------|---------|
| #0..... | Gray | 12973-0 | 12974-0 |
| #1..... | Gray | 12973-1 | 12974-1 |
| #2..... | Gray | 12973-2 | 12974-2 |
| #3..... | Gray | 12973-3 | 12974-3 |
| #4..... | Gray | 12973-4 | 12974-4 |

Stainless Steel

| Size | Color | Nozzle | Throat |
|---------|--------------|---------|---------|
| #0..... | Silver | 10225-0 | 10226-0 |
| #1..... | Silver | 10225-1 | 10226-1 |
| #2..... | Silver | 10225-2 | 10226-2 |
| #3..... | Silver | 10225-3 | 10226-3 |
| #4..... | Silver | 10225-4 | 10226-4 |

1700 Brine System

Standard

| Size | Color | Nozzle | Throat |
|---------|--------------|-----------|-----------|
| #3..... | Yellow | 14801-03C | 14802-03C |
| #4..... | Green..... | 14801-04C | 14802-04C |
| #5..... | White | 14801-05C | 14802-05C |
| #6..... | Red | 14801-06C | 14802-06C |

SERVICE ASSEMBLIES

Adapters:

- 61525 Softwater Adapter Kit, 2900s
61415 Adapter Assy, Sidemount
2850/2900/2930
61415NP Adapter Assy, Sidemount, NP
2850/2900/2930
61415-20 Adapter Assy, Sidemount, BSP/MTC
2850/2900/2930
61415-20NP Adapter Assy, Sidemount, BSP/NP
2850/2900/2930

Air Checks:

- 60002-34 Air Check, #500, 34 inches Long
60003-34 Air Check, #500, HW, 34 inches Tube
60009-01 Air Check, #900, Commercial, HW
Less Fittings

Auxiliary Micro Switch:

- 60320-02 Switch Kit, 3200/9000 Timer Auxiliary
60320-11 Switch Assy, 2900, Lower Drive (For
Adding 2nd Switch)
60320-08 Switch Assy, 2900, Lower Drive Aux
(For Adding Third Switch)

Brine Line Flow Controls (BLFC):

- 60020-25 BLFC, .25 GPM, 1600
60020-50 BLFC, .50 GPM, 1600
60020-100 BLFC, 1.0 GPM, 1600
60011-090 Brine Valve, 1650, Short Stem
60010-25 BLFC, 1650, .25 GPM, Plastic
60010-50 BLFC, 1650, .50 GPM, Plastic
60010-100 BLFC, 1650, 1.0 GPM, Plastic

Brine Valves:

- 60011 Brine Valve, 1650, Less BLFC
60029 Brine Valve, 1600, Short Stem Brass,
Std O-rings
60029HW Brine Valve, 1600, Short Stem Hot
Water
60034-XX Model 1700 brine valve assy (specify
flow control 1.0 - 5.0)
60604-XX Model 1710 brine valve assy (specify
flow control 1.0 - 5.0)

Covers:

- 60217-02 Environmental Lower Cover, Black
60219-02 Environmental, Cover, Black
60232-XX Designer 2 Piece
60232-110 Cover, Designer, 1 Piece Black
14800-02 Cover, Dust, Lower, 2900, Black

Drain Line Flow Controls (DLFC):

- 60366-XX 1-inch FNPT x 3/4-inch FNPT (specify
flow control .6 - 7.0)
60701-XX 1-inch FNPT x 1-inch FNPT (specify
flow control 8.0 - 25.0)
60702-XX 1-inch FNPT x 1-inch MNPT (specify
flow control 8.0 - 25.0)
60708-XX 1-inch FNPT x 3/4-inch FNPT (specify
flow control 8.0 - 25.0)
60721-XX 1-inch FNPT x 1-inch FNPT (specify
flow control .6 - 7.0)

Cam Assemblies:

- 60160-00 Drive Cam Assy, RR, White
60160-20 Drive Cam Assy, Std
60160-22 Drive Cam Assy, Link, Environmental
2900 Lower Drive
60160-30* Drive Cam Assy, Upflow
60160-31* Drive Cam Assy, Upflow, Variable

24-Hour Gear Assemblies:

- 19205 Gear Assy, 24 Hour, Silver, 5600, 12 A.M.
60519-02 Gear Assy, 3200 24 Hour 2 Times/Day, w/
Silver Label
60519-03 Gear Assy, 3200, 24 Hour 3 Times/Day,
w/Silver Label
60519-04 Gear Assy, 3200, 24 Hour 4 Times/Day,
w/Silver Label
60519-06 Gear Assy, 3200, 24 Hour (12:00) 6
Times/Day,
w/Silver Label

Injector Assemblies (Complete):

- 60480-XX 1600/1650 - 3/8-inch brine (specify size
of injector)

Meters:

- 60393 Meter Assy, 2900, 2-inch Std
60394 Meter Assy, 2900, 2-inch Ext
60616 Meter Assy, Elec 2-inch
60620 Meter Assy, 2-inch Plastic, Std
60621 Meter Assy, 2-inch Plastic, Ext
60625 Meter Assy, 2-inch Plastic Electronic
61439 Meter Sleeve w/O-ring, Machd

Piston Assemblies:

- 60103 Piston Assy, 2900/2930, HWBP Lower
60103-01 Piston Assy, 2900/2930, HWBP, HW,
Lower
60104 Piston Assy, 2900/2930, NHWBP Lwr,
2900s, Soft Wtr Rgn
60104-01 Piston Assy, 2900/2930, NHWBP, HW
Lwr, 2900s Soft Wtr Rgn
61540 Piston Assy, 2900s, Downflow Upper
61540-01 Piston Assy, 2900s Downflow Upper, HW
61545* Piston Assy, 2900s, Upflow Upper
61545-01* Piston Assy, 2900s, Upflow Upper, HW
61550 Piston Assy, 2900s, HWBP Lower
61550-03 Piston Assy, 2900s, HWBP Lower, HW
61555 Piston Assy, 2900s, NHWBP Lower
61555-03 Piston Assy, 2900s, NHWBP Lower, HW

Program Wheel Assemblies:

- 60405-20 Program Wheel, w/3/4-inch Ext Label
1-1/2 inch Std Set @ 100
60405-50 Program Wheel, w/2-inch Std Label Set
@ 21
60405-60 Program Wheel, w/2-inch Ext Label
60405-70 Program Wheel, w/1-1/2 inch Ext Label

SERVICE ASSEMBLIES *CONTINUED*

Safety Brine Valves:

60014..... Safety Brine Valve Assy, 2310
60038..... Safety Brine Valve , 2350
60027-FFA..... Safety Brine Valve Body, 2300 Fitting
Facing Arm
60027-FFS..... Safety Brine Valve Body Fitting Facing
Stud
60026-30SAN Float Assy, 400A/2350, 30-inch HW
60028-30 Float Assy, 2300, 30-inch White
60028-30 Float Assy, 2300, 30-inch, Blue/White
60068-30 Float Assy, 2310, w/30-inch Rod

Sales & Service Aids:

40738..... Literature, 2900 Spec Sheet
41689..... Literature, 2900s S/Manual
40717..... Literature, Catalog Assy, PWT
Residential/Commercial

Seal & Spacer Kits:

61530..... Seal & Spacer Kit, 2900s Upper
61530-01 Seal & Spacet Kit, 2900s, HW Upper
60128..... Seal & Spacer Kit, 2900/2930 Lower
60128-01 Seal & Spacer Kit, 2900/2930, HW Lower

Service Equipment:

11098..... Stuffer Tool Assy, Complete
12682..... Puller Tool Assy, 2900/3150
12683..... Stuffer Tool Assy, 2900/3150
13061..... Puller Assy, Port Ring
16174..... Silicone, 2 oz. Tube
60460..... Meter Checker Kit, Std
60461..... Meter Checker Kit, Ext
16586-8 Silicone, Dow #7 8 Lb

Service Valve Operator Assemblies:

60150..... SVO Assy, 1600 O/S
60150-01 SVO Assy, 1600 N/S

Skipper Wheel Assemblies:

14860..... Skipper Wheel Assy, 7 Day
14381..... Skipper Wheel Assy, 12 Day
*Upflow Only

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