

FLECK 9000/9100/9500 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 N	Number:			_			
	el Number:			_			
Wate	r Test:			_			
	city Per Unit:			_			
Mine	ral Tank Size: Diar	meter:	Height:				
Brine	e Tank Size and Salt Setting p	er Regenerati	on:	_			
9000,	/9100/9500 Control Valve Spe	cifications:					
1.	Type of Timer:						
	A. 82 minute available reger	neration time,	1/15 RPM				
	B. 164 minute available rege	eneration time	e, 1/30 RPM				
2.	Meter Size:						
	A. 3/4- inch Std Range (125	- 2,100 gallon	setting)				
	B. 3/4-inch Ext Range (625 -	- 10,625 gallor	setting)				
	C. 1-inch Std Range (310 - 5	i,270 gallon se	etting)				
	D. 1-inch Ext Range (1,150 -	· 26,350 gallon	setting)				
	E. 1-1/2 inches Std Range (d	625 - 10,625 g	allon setting)				
	F. 1-1/2 inches Ext Range (3	3,125 - 53,125	gallon setting)	ı			
3.	Timer Gallon Setting:		Gallor	าร			
4.	Regeneration Program Setti	ing:					
	A. Backwash:		Minutes	S			
	B. Brine and Slow Rinse:		Minutes	S			
	C. Rapid Rinse: Minutes						
	D. Brine Tank Refill:		Minutes	S			
5.	Drain Line Flow Control:		gpm	1			
6.	Brine Refill Rate:		gpm	1			
7	Injector Size						

EQUIPMENT CONFIGURATION

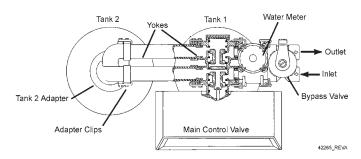


Figure 1 9000/9100 Equipment Configuration

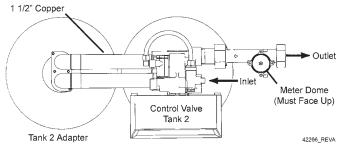


Figure 2 9500 Equipment Configuration

INSTALLATION & START-UP

Water Pressure

A minimum of 25 pounds (1.7 bar) of water pressure is required for regeneration valve to operate effectively.

Electrical Facilities

A continuous 115 volt, 60 Hertz current supply is required. Make certain the current supply is always hot and cannot be turned off with another switch.

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.

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.

NOTE: Be sure the tank is level and on a firm base.

- 2. During cold weather, the installer should warm the valve to room temperature before operating.
- 3. Perform all plumbing according to local plumbing codes.
 - Use a 1/2-inch minimum pipe size for the drain.
 - Use a 3/4-inch drain line for backwash flow rates that exceed 7 gpm or length that exceeds 20 feet (6 m).
- 4. Both tanks must be the same height and diameter and filled with equal amounts of media.
- The distributor tube must be flush with the top of each tank. Cut if necessary. Use only non-aerosol silicone lubricant.
- Lubricate the distributor o-ring seal and tank o-ring seal. Place the main control valve on one tank and the tank adapter on the second tank.

NOTE: If required, solder copper tubing for tank interconnection before assembling on the main control valve and tank adapter. Maintain a minimum of 1 inch distance between tanks on final assembly.

- 7. A IMPORTANT: For valves equipped with electromechanical timers and stainless steel meters, refer to the Meter Dome and Union Orientation section.
- Solder joints near the drain must be done before connecting the Drain Line Flow Control fitting (DLFC). Leave at least 6 inches (152 mm) between the DLFC and solder joints when soldering pipes that are connected on the DLFC. Failure to do this could cause interior damage to DLFC.
- 9. Use only plumber tape on the drain fitting.
- 10. Be sure the floor under the salt storage tank is clean and level.

- 11. 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 in the salt tank. Do not add salt to the brine tank at this time.
- 12. On units with a bypass, place in Bypass position.
- 13. Turn on the main water supply.
- 14. Open a cold soft water tap nearby and let water run a few minutes or until the system is free of foreign material (usually solder) resulting from the installation. Close the water tap when water runs clean.
- 15. Place the bypass In Service position and let water flow into the mineral tank. When water flow stops, slowly open a cold water tap nearby and let water run until air is purged from the unit. Then close tap.
- 16. Make all electrical connections according to codes. Plug the valve into an approved power source. Do not insert meter cable into the meter yet.
- 17. Tank one has control valve and tank two has adapter.
- 18. Look on the right side of the control valve, it has indicators showing which position the control valve is in during Regeneration and which tank is In Service.

NOTE: Make sure the meter cable is not inserted in the meter dome. Swing the timer out to expose the program wheel. To swing timer out, grab onto the lower right corner of timer face and pull outward.

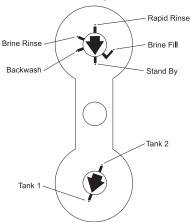


Figure 3 Control Valve Position Indicators

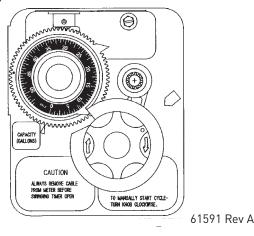


Figure 4 Timer

INSTALLATION & STARTUP CONTINUED

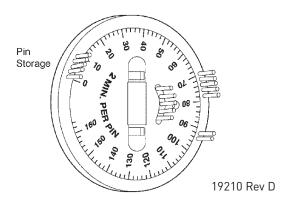


Figure 5 Program Wheel

19. Cycle timer into backwash position. Turn manual knob so that the micro switch rides on the first set of pins. In this position the tanks switch (lower piston) and the control valve moves to the backwash position (upper piston). Wait until the positioning of upper and lower pistons stops before advancing the timer further. If advanced too fast the control will not home into the In Service position (it will not advance to any other position). To correct this, rotate the manual knob back to In Service and start again into backwash.

NOTE: Once valve positions itself into the backwash cycle, the homing circuit locks in.

- 20. With all the air backwashed, slowly cycle the timer to the brine position; rapid rinse; and brine tank refill. Wait for the control drive motor to position itself in each cycle and stop, before advancing on to the next position.
- 21. Once back in the In Service position, cycle the control valve again into the backwash position. The tanks switch again, and air head backwashes out of the other tank. Cycle the control back to the In Service position. Leave the timer in the open position. DO NOT insert meter cable yet.

NOTE: Two motors are available.

1/15 RPM has 82 minute regeneration time. 1/30 RPM has 164 minute regeneration time.

Valve To Tank Installation

 Spin the valve onto the tank, ensuring the threads are not cross-threaded.

NOTE: All Fleck® valves are right-hand threads, or clockwise, to install

- 2. Rotate the valve freely without using force until it comes to a stop (this position is considered zero).
- 3. Rotate the valve clockwise from zero, between 1/4-turn and 1/2-turn (see "Figure 6").

NOTE: If lubricant is required, a silicone compound is strongly recommended. Dow Corning® Silicone Compound (available from Pentair), is recommended for best possible results. Dow Corning® 7 Release Compound is used in the manufacture of Pentair control valves. The use of other types of lubricants may attack the control's plastic or rubber components. Petroleum-based lubricants can cause swelling in rubber parts, including o-rings and seals.

Part No.	Description
16174	Silicone, 2 oz Tube
16586-8	Silicone, Dow #7 8 lb

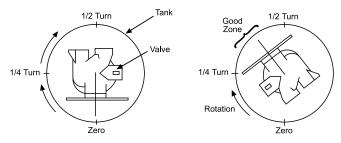


Figure 6

Setting the Regeneration Cycle Program

The Regeneration cycle program on the water conditioner is preset at the factory. However, portions of the cycle or program time may be lengthened or shortened for local conditions or system design.

 Expose cycle program wheel by grasping timer in lower right hand corner and pulling. This releases snap retainer and swings timer to the left

NOTE: Meter cable must be removed from meter dome before opening timer.

- 2. Remove the program wheel by grasping program wheel and squeezing protruding lugs towards center. Lift program wheel off timer. Switch arms may require movement to facilitate removal.
- 3. Return timer to closed position by engaging snap retainer in back plate. Make certain all electrical wires locate above snap retainer post.

Changing Length of the Backwash Time

Looking at the numbered side of the program wheel, the group of pins starting at zero determines the length of time the unit backwashes.

Example: If there are six pins in this section, the time of backwash is 12 minutes (2 minutes per pin). To change the length of backwash time, add or remove pins as required.

The number of pins multiplied by two equals minutes of backwash.

Changing Length of Brine and Rinse Time

The group of holes between the last pin in the backwash section and the second group of pins determines the length of time that a unit will brine and rinse (2 minutes per hole).

To change the length of brine and rinse time, add or remove pins in the rapid rinse group of pins to increase or decrease the number of holes in the brine and rinse section.

The number of holes multiplied by two equals minutes of brine and rinse.

Changing Length Of Rapid Rinse

The second group of pins on the program wheel determines the length of time the water conditioner rapid rinses (2 minutes per pin). 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 multiplied by two equals minutes of rapid rinse.

NOTE: Program wheels with 0-82 minute cycle times, use one minute per pin or hole to set Regeneration times. The layout of pins and holes on the program wheel follow the same procedure as on this page.

INSTALLATION & STARTUP *CONTINUED*

Changing Length of Brine Tank Refill Time

The second group of holes on the program wheel determines the length of time the water conditioner refills the brine tank (2 minutes per hole).

To change the length of refill time, move the two pins at the end of the second group of holes as required.

The Regeneration cycle is complete when the two pin set at end of the brine tank refill section trips the outer micro-switch. The program wheel, however, continues to rotate until the inner micro-switch drops into the notch on the program wheel.

Programming

 The control valve is set at the factory for backwash; brine and slow rinse; rapid rinse and brine tank fill times.
 Change any of these times by repositioning the pins and holes or adding more pins.

NOTE: Two timer motors are available.

1/15 RPM has 82 minute Regeneration Time and each pin or hole equals one minute.

1/30 RPM has 164 minute Regeneration Time and each pin or hole equals two minutes.

2. The control valve has a separate brine tank fill cycle. Calculate the desired salt setting using the brine line flow control rate of refill (in gpm) multiplied by the timer setting. Then, using one gallon of fresh water dissolving approximately 3 lbs salt, calculate the refill time.

Example: A desired 30 lbs salt setting:

The unit has a 1.0 gpm refill rate so a 10 gallon fill is required.

10 gallons x 3 lbs/gals = 30 lbs salt Set the timer refill section at 10 minutes. 10 minutes x 1.0 qpm = 10 gallon fill

NOTE: There must always be two pins at the end of a refill time to stop the fill cycle. With the Regeneration times set, place timer back to its original position, making sure the lower right hand corner snaps back into the backplate and the meter cable slides through the backplate and does not bind.

 Setting the gallon wheel. Knowing the amount of resin in each tank and the salt setting per Regeneration, calculate the gallons available, using the following capacities as a guide:

 $\underline{\text{(capacity per ft}^2 x ft^3 of resin per tank)}}$ = gallons available compensated hardness of H2O

NOTE: Based on tank size: More resin increases capacity, less resin decreases capacity. More salt increases capacity, less salt decreases capacity.

Example:

Tank Diameter = 16 inches

Compensated 35 grains per gallon

Hardness (tested sample)

ft³ Resin (based on

flow rate) = '

lbs of Salt per $ft^3 = 8$

Capacity per ft^3 = 24,000

[24,000 x 4 ft³ of resin

per tank) 35 grains = 2,740 gallons available before regeneration

Complete step 4 before setting gallons on the meter wheel.

 Because the control valve regenerates with soft water from the other tank, subtract the water used for regeneration.
 Take each regeneration cycle and calculate the water used.

Example: Unit is set for a 16-inch diameter tank with 4 ft³ of resin and salted at 8 lbs. per ft³, 7 gpm backwash, #3 injector, 1.0 gpm brine refill, and 60 psi and timer set for 10 min. backwash, 60 min. brine and rinse, 10 min. rapid rinse, 10 min. brine tank fill.

Total Regeneration Water = 210.0 gal

With the 2740 gallons available calculated in Step 3, subtract the Regeneration water used from the total water available.

2740 gallons available - 210 gallons used = 2530 gallons (in Regeneration, Step 4)

5. Set meter wheel at approximately 2530 gallons. Lift the inner dial of the meter program wheel so that you can rotate it freely. Position the white dot opposite the 2530 gallon setting.

NOTE: There is a slight delay between the time the meter zeros out and the cycle starts. Units using the:
1/15 RPM motor, 82 minute Regeneration Time has a 9 minute delay
1/30 RPM motor, 180 minute Regeneration Time has an 18 minute delay.

NOTE: This delay period is not critical on residential equipment. However, take this factor into consideration for commercial applications by subtracting continuous flows for 9 minutes or 18 minutes from water available.

- 6. Insert meter cable into meter.
- 7. Check bypass.
- 8. Plug in unit.

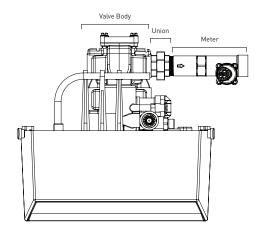
INSTALLATION CONTINUED

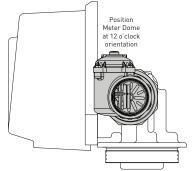
Meter Dome and Union Orientation

Control valves outfitted with an electromechanical timer and stainless steel water meter include a special male x female threaded stainless steel union to insure proper installation and operation of the water meter.

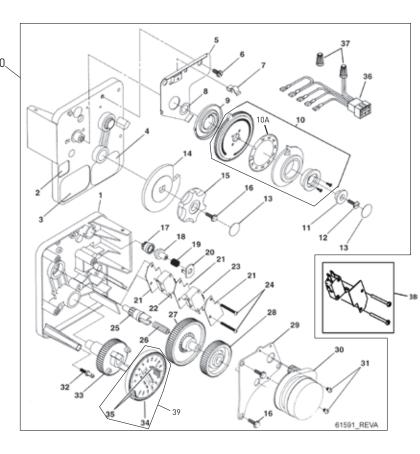
▲ WARNING: The location of this union in relation to the control valve and water meter is critical for proper operation. DO NOT omit or substitute this special union; it positions the meter dome at the correct distance from the control valve and allows re-positioning the water meter dome for proper operation.

- 1. Apply a suitable thread sealant to the male threads of the union and meter body.
- 2. Thread the union into the OUTLET port of the control valve, then thread the meter into the union. See illustrations below.
- 3. Rotate the water meter body so the meter dome is at the 12 o'clock position. Loosen the nut on the union to facilitate this if required. Once in position, tighten the
- 4. Connect the meter cable to the open port in the center of the meter dome.
- 5. Continue with the installation of the control valve.





9000/9100/9500 (3200 SERIES) ELECTRO **MECHANICAL TIMER ASSEMBLY**

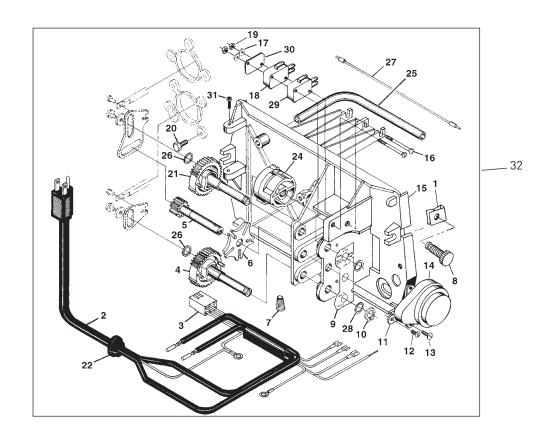


9000/9100/9500 (3200 SERIES) ELECTRO MECHANICAL TIMER ASSEMBLY CONTINUED

Item No.	QTY		Description
			Housing, Timer, 9000
			Label, Indicator, 9000 Timer Label, Caution
			Label, Instruction
			Plate, Clutch, Actuator
			Screw, Slot Hex Washer, 18-8 x 3/8
7	1	17513	Clip, Spring
			Washer, Plain, #4
			Spring, Return
10	1	16270-10	Program Wheel Assy, 9000/9100, 3/4-inch STD, 0-2, 100
		16270-30	Program Wheel Assy, 9000/9100, 1-inch STD, 0-5, 100
		16270-40	Program Wheel Assy, 9000/9100, 1-inch EXT, 0-25, 500
		16270-50	Program Wheel Assy, 9000/9100/9500, 3/4-inch EXT, 1.5-inch STD, 0-10, 500
		16270-60	Program Wheel Assy, 9500, 1.5-inch EXT, 0-50, 000
10A		24673	Volume Label, Metric, 9000/9100, 3/4-inch STD, 0-8m³
		24672	Volume Label, Metric, 9000/9100, 1-inch STD, 0-20m³
		24676	Volume Label, Metric, 9000/9100, 1-inch EXT, 0-100m³
		24675	Volume Label, Metric, 9000/9100/9500, 3/4-inch EXT, 1.5-inch STD 0-40m³
		25027	Volume Label, Metric, 9500, 1.5-inch EXT, 1.5-inch EXT 0-200m³
11	1	13806	Retainer, Program Wheel
12	1	13748	Screw, Flt Hd St, 6-20 x 1/2
13	2	11999	Label, Button
14	1	15223	Actuator, Cycle
15	1	13886	Know, 3200
			Screw, Hex Washer, 6-20 x 1/2
17	1	17724	Program Wheel, Pinion Drive
18	1	17723	Clutch, Drive Pinion
			Spring, Meter Clutch
20	1	14253	Retainer, Clutch Spring

tem N	o. QTY	Part No.	Description
21	3	14087	Insulator
22	1	15314	Switch, Micro, Modified
23	1	15320	Switch, Micro, Timer
24	2	11413	Screw, Pan Hd Mach, 4-40 x 1 1/8
25	1	13018	.Pinion, Idler
26	1	18563	.Spring, Idler Shaft
27	1	13017	.Gear, Idler
28	1	13164	.Gear, Drive
29	1	13887	Plate, Motor Mounting
30	1	18743-1	Motor, 120V, 60 Hz 1/30 RPM, 5600
		18824-1	Motor, 230V, 50 Hz 1/30 RPM
		19170	.Motor, 120V 60 Hz 1/15 RPM
		18825	Motor, 230V, 50 Hz 1/15 RPM Mallory
31	2	13278	Screw, Phil Hd Mach, 6-32 x 1/8 Steel Zinc
32	1	14265	.Clip, Spring
33	1	15055	.Timer, Main Drive Gear
34	1	19210-02	Program Wheel Assy, 9000 1/15
		19210-05	Program Wheel Assy, 9000/3230
35	23	15493	Pin, Spring, 1/16 x 5/8 SS
36	1	15203	.Harness, 9000/9500, Timer
37	2	40422	.Nut, Wire, Tan
38	1	60320-02	Switch Kit, 3200/9000 Timer Auxiliary
39		61420-69	Program Wheel & Gear Assy, 5-30-5-10-2, 2 Min Per Pin
			Program Wheel & Gear Assy, 5-40-5-7-2, 2 Min Per Pin
			Complete 9000 Meter Immediate Timer Assembly

^{*}Call your distributor for Part Number

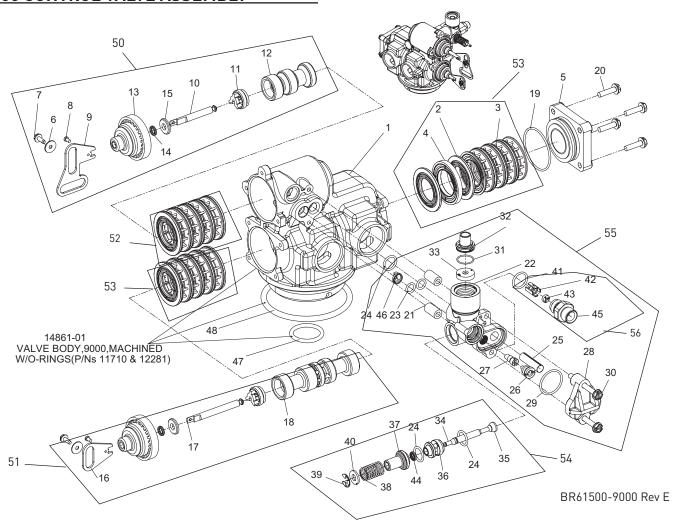


POWER HEAD ASSEMBLY CONTINUED

		Part No.	Description
			.Nut, Tinnerman, U Type,
			8-32
2	1	11838	.Power Cord, 6' Fleck
		11839	.Power Cord, 12' Fleck
		40084-12	.Power Cord, 12' U.S., Round, 120V Sys 5, 6, 7 & 2900/3150/3900 #4
		19885-01	.Power Cord Assy, Japanese
		11545-01	.Power Cord Assy, 4' Black, Euro w/Terminals
		14678	.Power Cord, U.S., 220/60
		19303-01	.Power Cord Assy, Australian w/Terminals
		40085-12	.Power Cord, 12' US, Round, 240V
		44147	.Transformer, US, 24V, 9.6VA, Lvl6
			.Transformer, 24V, 9.6VA, European
3	1	15202	.Harness, 9000/9500, Drive
			.Harness, 2900
4	1	15134	.Gear Assy, Drive, 1/2-inch Stroke 9000/9500
5	1	15135	.Gear, Drive, 9000
6	1	14896	.Wheel, Geneva
7	2	40422	.Nut, Wire, Tan
8	2	19367	.Screw, Designer Cover, Thumb 8-32 Blank UV Stable Material
9	1	15175	Label, Shaft Position
10	2	14917	.Ring, Retaining
11	1	42296	.Plate, Ground, 9000/9500
12	1	14430	.Screw, Hex Washer St, 6 x 1/4 Type "B"
13	2	19160	.Screw, Phil Pan, Thread 6-32 x 3/8 Type 23 Zinc
14	1	18737	.Motor, 24V, 50/60 Hz, 1 RPM
		18738	.Motor, 120V, 50/60 Hz 1 RPM
		18739	.Motor, 220V, 50/60 Hz 1 RPM
15	1	15131	.Backplate, 9000, Mechanical, SXT
		17784-05	.Panel, Control, 9000/9500 XT
			.Panel, Control, 9000, 9500 w/Terminal Block
16	2	15172	.Screw, Flt Hd Mach, 4-40 x 1 3/8 Steel Zinc Plate

		Part No.	-
17	2	. 10340	.Washer, Lock #4, Zinc
			.Switch, Miniature
			.Nut, Hex, 4-40 Zinc Plated
20	1	. 15331	.Screw, Hex Washer Mach, 10-24 x 3/4 410 S.S.
21	1	. 15133	.Gear Assy, Drive, 3/4-inch Stroke
22	1	. 13547	.Strain Relief, Flat Cord Heyco #30-1
	1	. 13547-01	.Strain Relief, Round Cord
23	1	. 15810	.Ring, Retaining
24	1	. 17331	.Cam, 9000, 9100, 9500
		. 17765	.Cam Assy, Aux Switch, 9000, 9100, 9500
25	1	. 15368	.Tube, Cable Guide, 2-Tank, 9000/9100
		. 17337	.Tube, Cable Guide, 9500
			.Washer, Thrust, 3/8
27	1	. 15425	Meter Cable Assy, 13.25 inches 9000/9100 3/4-inch STD & EXT
		. 15216	.Meter Cable Assy, 15.25 inches 9000/9100 1-inch STD & EXT
		. 17744	.Meter Cable Assy, 20.75 inches 9500 1.5-inch STD & EXT
28	2	. 15692	.Washer, Plain, 3/8-inch
30	1	. 10302	.Insulator, Limit Switch
31	2	. 15173	.Screw, Slot Rd Hd Mach, 5-20 x 3/8
32		*	.Complete 9000/9100/9500 Powerhead Assy
Not Show	n		
	1	. 60232-110	.Cover, Designer, 1 Pc Black
	1	. 60232-112	.Cover, Designer, 1 Pc Black w/Left Window, Electric
	1	. 60320-10	.Switch Assy, Drive Cam, 9000, 9100, 9500
*Call your	distribu	itor for Part Nu	mber

9000 CONTROL VALVE ASSEMBLY



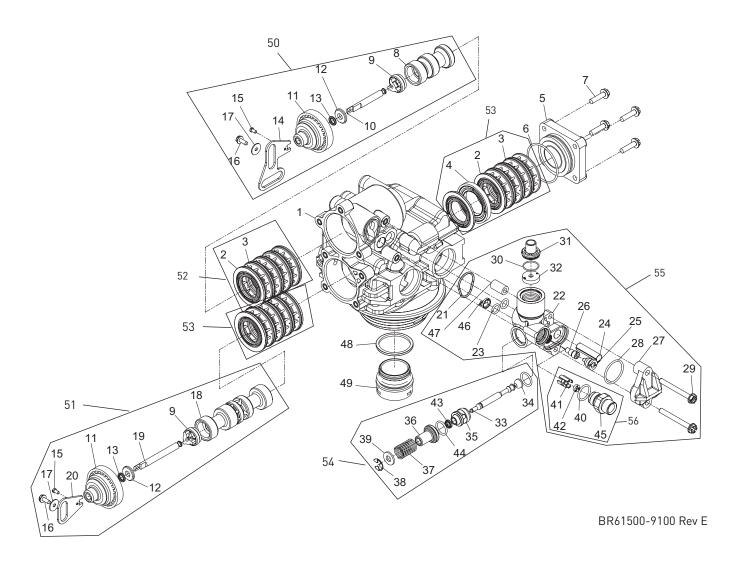
9000 CONTROL VALVE ASSEMBLY CONTINUED

7000 0			LASSLINDLI CONTINUED			
Item No.	QTY	Part No.	Description	Item No.	Part No.	Description
			Valve Body, 9000	33		Washer, Flow, 0.6 GPM
			Seal, 5600,9000, 9100			Washer, Flow, 0.8 GPM
			Spacer, 5600,9000, 9100			Washer, Flow, 1.0 GPM
			Spacer, 9000, 9100			Washer, Flow, 1.2 GPM
			End Cap, Plastic, 9000/9100			Washer, Flow, 1.3 GPM
			Washer, Plain			Washer, Flow, 1.5 GPM
7	2	17020	Screw, STL. Hex Washer, 6-20 x 3/8			Washer, Flow, 1.7 GPM
8	2	11335	Screw, #4-40			Washer, Flow, 2.0 GPM
			Link, Piston Rod			Washer, Flow, 2.4 GPM
			Piston, Rod, Upper			Washer, Flow, 3.0 GPM
			Retainer, Piston Rod			Washer, Flow, 3.5 GPM
			Piston, 9000, 9100 Upper			Washer, Flow, 4.0 GPM
			Plug, End, 5600, 9000, 9100			Washer, Flow, 4.5 GPM
			Quad Ring, -010			Washer, Flow, 5.0 GPM
			Retainer, End Plug Seal			Washer, Flow, 6.0 GPM
			Link, Piston Rod, 9000/9500,	27		Washer, Flow, 7.0 GPM
10	1	10017	9100			Brine Valve Stem, 9000, 9100
17	1	14920	Rod, Piston, Lower, 9000,			Seat, Brine Valve
			9100			Spacer, Brine Valve
			Pistion, 9000, 9100 Lower			Cap, Brine Valve
19	1	40952	0-ring, -030			Spring, Brine Valve
20	4	15331	Screw, Hex Washer Head			Ring, Retaining, SS
			Spacer, 4600, 9000, 9100			Washer, Nylon Brine
			Body, Injector, 9000, 9100			0-ring, -015
			0-ring, -011			Retainer, BLFC
			0-ring, -014	43		Washer, Flow, 0.125 GPM
			Screen, Injector			Washer, Flow, 0.25 GPM
26			Nozzle, Injector, #000, Brown			Washer, Flow, 0.50 GPM Washer, Flow, 1.0 GPM
		10913-00	Nozzle, Injector, #00, Violet	//		Quad Ring, -009
			Nozzle, Injector, #0, Red			Adapter, BLFC
			Nozzle, Injector, #1, White			Adapter, BLFC Air Disperser, Injector
			Nozzle, Injector, #2, Blue			O-ring, -215
			Nozzle, Injector, #3, Yellow			0-ring, -213 0-ring, -338
			Nozzle, Injector, #4, Green			Piston Assy, 9000, 9100
27			Throat, Injector, #000, Brown	30	 . 00400	Upper
			Throat, Injector, #00, Violet		 . 60400-01	Piston Assy, 9000 Upper, HW
			Throat, Injector, #0, Red		 . 60400-001	Piston Assy, 9000, 9100
			Throat, Injector, #1, White			Upper, 560CD
			Throat, Injector, #2, Blue	51	 . 60401	Piston Assy, 9000, 9100
			Throat, Injector, #3, Yellow		(0/01 01	Lower
			Throat, Injector, #4, Green			Piston Assy, 9000 Lower, HW
			Cap, Injector, 5600, 9000, 9100			Piston Assy, 9000, 9100 Lower, 560CD
			0-ring, -021	52	 . 60125	Seal & Spacer Kit, 5600/9000/9100 Upper
			Screw, Hex Washer Head		۸∩125 ₋ 15	Seal & Spacer Kit,
			0-ring, -563		 . 00123-13	5600/9000/9100 Upper Blue
32	1	13173	Retainer, DLFC Button		 . 60125HW	Seal & Spacer Kit, 9000
					FLECK°	Upper 9000/9100/9500 Service Manual • 11

9000 CONTROL VALVE ASSEMBLY CONTINUED

		Description	Itama Na	OTV	Dowt No.	Description
Item No.		Description Seed & Chapter Wit 0000/0100	Item No.	QTY	Part No.	Description
ეა	60421	Seal & Spacer Kit, 9000/9100 Lower			. 60365-0362	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 5.0 DLFC
	60421HW	Seal & Spacer Kit, 9000 Lower			. 60385-0482	Injector Drain, 9000, 9100, 0.50 BLFC #4 INJ, 5.0 DLFC
	60421-50	Seal & Spacer Kit, 9000/9100 Lower, 559PE			. 60385-0133	Injector Drain, 9000, 9100, 1.0 BLFC #1 INJ, 2.0 DLFC
54		Brine Valve Assy, 9000, 9100			. 60385-0143	Injector Drain, 9000, 9100, 1.0 BLFC #1 INJ, 2.4 DLFC
EE		Brine Valve Assy, 9000, 560CD, Hot Water			. 60385-0163	Injector Drain, 9000, 9100, 1.0 BLFC #1 INJ, 3.5 DLFC
55	60363-0011	Injector Drain, 9000, 9100, 0.25 BLFC #0 INJ, 1.2 DLFC			. 60385-0233	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 2.0 DLFC
	60385-0111	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ,			. 60385-0243	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 2.4 DLFC
	60385-0121	1.2 DLFC Injector Drain, 9000, 9100,			. 60385-0253	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 3.0 DLFC
		0.25 BLFC #1 INJ, 1.5 DLFC			. 60385-0263	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 3.5 DLFC
	60385-0131	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ,			. 60385-0273	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 4.0 DLFC
	60385-0141	2.0 DLFC Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ,			. 60385-0353	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 3.0 DLFC
	/0005 0040	2.4 DLFC			. 60385-0373	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 4.0 DLFC
	60385-0012	Injector Drain, 9000, 9100, 0.50 BLFC #0 INJ, 1.2 DLFC			. 60385-0383	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 5.0 DLFC
	60385-0112	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 1.2 DLFC			. 60385-0393	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 7.0 DLFC
	60385-0122	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 1.5 DLFC			. 60385-0120	Injector Drain, 9000, 9100, Blank BLFC #1 INJ, 1.5 DLFC
	60385-0132	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 2.0 DLFC	56		. 60022-12	BLFC, 0.125 GPM, 5000/5600/9000/9100
	60385-0142	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 2.4 DLFC				BLFC, 0.25 GPM, 5000/5600/9000/9100
	60385-0182	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 5.0 DLFC				BLFC, 0.50 GPM, 5000/5600/9000/9100
	60385-0222	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 1.5 DLFC			. 60022-100	BLFC, 1.0 GPM, 5000/5600/9000/9100
	60385-0242	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 2.4 DLFC	Not Show		. 12128	Label, 0.25 GPM BLFC
	60385-0252	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 3.0 DLFC		1	. 13333	Label, Injector Label, 1 GPM, 3 lbs salt/min
	60385-0262	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 3.5 DLFC			. 10759	Label, 0.5 GPM, 1.5 lbs Salt
	60385-0272	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 4.0 DLFC			. 19654	Label, 0.125 GPM Brine Refill Flow
	60385-0282	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 5.0 DLFC				
	60385-02A2 .	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 6.0 DLFC				
	60385-0202	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, Blank DLFC				
12 • El EC	60385-0372 K ® 9000/9100/9500 Sarvi	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 4.0 DLFC				

9100 CONTROL VALVE ASSEMBLY



Item No. QTY Part No. Description 1 40688 Valve Body Assy, 9100 2 16 13242-02 Seal, 5600,9000, 9100 3 12 14241 Spacer, 5600,9000, 9100 4 1 16595 Spacer, 9000, 9100 5 1 43458 End Cap, Plastic, 9000/9 6 1 40952 O-ring, -030 7 4 15331 Screw, Hex Washer Heat 8 1 14914 Piston, 9000, 9100 Upper 9 2 14309 Retainer, Piston Rod 10 1 14919 Piston, Rod, Upper 11 2 13243 Plug, End, 5600, 9000, 9 12 2 13008 Retainer, End Plug Seal 13 2 10209 Quad Ring, -010 14 1 14921 Link, Piston Rod 15 2 11335 Screw, #4-40 16 2 17020 Screw, STL. Hex Washe	9100 20
162 17020Screw, STL. Hex Washe 6-20 x 3/8	r,

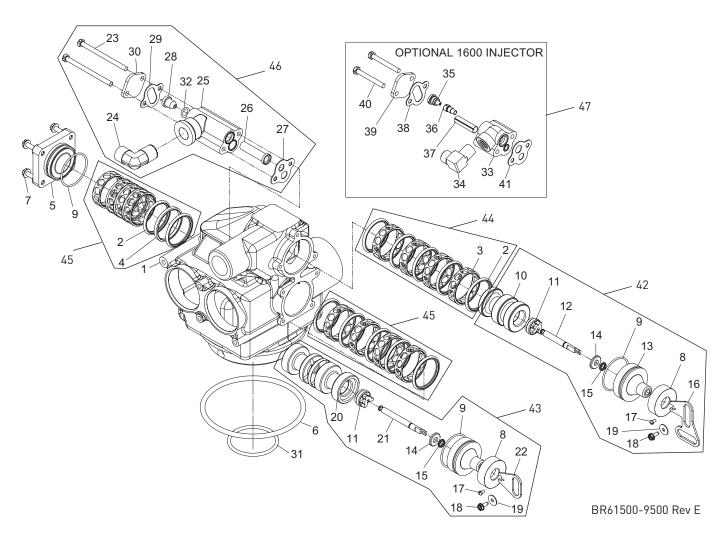
9100 CONTROL VALVE ASSEMBLY CONTINUED

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
26	1	10914-000	Throat, Injector, #000,	47	1	13361	Spacer, 4600, 9100
		10914-00	Brown Throat, Injector, #00, Violet	48	1	40538	Retainer, 32 mm, 0-ring DIST, 7000
			Throat, Injector, #0, Red	49	1	61419	Kit, 1.05-inch Distributor
		10914-1	Throat, Injector, #1, White				Adapter
		10914-2	Throat, Injector, #2, Blue	50		60400	Piston Assy, 9000, 9100 Upper
		10914-3	Throat, Injector, #3, Yellow			40400_001	Piston Assy, 9000, 9100
		10914-4	Throat, Injector, #4, Green			00400-001	Upper, 560CD
27	1	13166	Cap, Injector, 5600, 9000, 9100	51		60401	Piston Assy, 9000, 9100 Lower
28	1	13303	0-ring, -021			60401-01	Piston Assy, 9000 Lower,
			Screw, Hex Washer Head				HW
		15348				60401-001	Piston Assy, 9000, 9100
			Retainer, DLFC Button	EO		/010E	Lower, 560CD Seal & Spacer Kit,
32			Washer, Flow, 0.6 GPM	32		60123	5eat & Spacer Kit, 5600/9000/9100 Upper
			Washer, Flow, 0.8 GPM			60125-15	Seal & Spacer Kit,
			Washer, Flow, 1.0 GPM				5600/9000/9100 Upper
			Washer, Flow, 1.2 GPM	F2		/0/01	Blue Silicone
			Washer, Flow, 1.3 GPM Washer, Flow, 1.5 GPM	53	•••••	60421	Seal & Spacer Kit, 9000/9100 Lower
			Washer, Flow, 1.7 GPM			60421-50	Seal & Spacer Kit,
			Washer, Flow, 2.0 GPM				9000/9100 Lower, 559PE
			Washer, Flow, 2.4 GPM	54		60350	Brine Valve Assy, 9000, 9100
			Washer, Flow, 3.0 GPM	55		60385-0011	Injector Drain, 9000, 9100,
			Washer, Flow, 3.5 GPM			4020E 0111	0.25 BLFC #0 INJ, 1.2 DLFCInjector Drain, 9000, 9100,
			Washer, Flow, 4.0 GPM			00303-0111	0.25 BLFC #1 INJ, 1.2 DLFC
		19147	Washer, Flow, 4.5 GPM			60385-0121	Injector Drain, 9000, 9100,
		12092	Washer, Flow, 5.0 GPM				0.25 BLFC #1 INJ, 1.5 DLFC
		17814	Washer, Flow, 6.0 GPM			60385-0131	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 2.0 DLFC
			Washer, Flow, 7.0 GPM			60385-0141	Injector Drain, 9000, 9100,
33	1	14925	Brine Valve Stem, 9000, 9100				0.25 BLFC #1 INJ, 2.4 DLFC
34	1	12626	Seat, Brine Valve			60363-0012	Injector Drain, 9000, 9100, 0.50 BLFC #0 INJ, 1.2 DLFC
35	1	13167	Spacer, Brine Valve			60385-0112	Injector Drain, 9000, 9100,
36	1	13165	Cap, Brine Valve				0.50 BLFC #1 INJ, 1.2 DLFC
			Spring, Brine Valve			60385-0122	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 1.5 DLFC
			Ring, Retaining, SS			40385 <u>-</u> 0132	Injector Drain, 9000, 9100,
			Washer, Nylon Brine			00303-0132	0.50 BLFC #1 INJ, 2.0 DLFC
		12977	3,			60385-0142	Injector Drain, 9000, 9100,
			Retainer, BLFC Washer, Flow, 0.125 GPM				0.50 BLFC #1 INJ, 2.4 DLFC
42			Washer, Flow, 0.125 GPM			60385-0182	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 5.0 DLFC
			Washer, Flow, 0.50 GPM			4N385-N222	Injector Drain, 9000, 9100,
			Washer, Flow, 1.0 GPM		••••	00303-0222	0.50 BLFC #2 INJ, 1.5 DLFC
43			Quad Ring, -009			60385-0242	Injector Drain, 9000, 9100,
		13302	· ·				0.50 BLFC #2 INJ, 2.4 DLFC
			Adapter, BLFC			60385-0252	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 3.0 DLFC
			Air Disperser, Injector			4N385-N242	Injector Drain, 9000, 9100,
		0/0100/0500 C				00000-0202	

9100 CONTROL VALVE ASSEMBLY CONTINUED

<u>9100 C</u>	<u>UNIK</u>	UL VALVE	ASSEMBLY LUNIINUED				
Item No.	QTY	Part No.	Description 0.50 BLFC #2 INJ, 3.5 DLFC	Item No.	QTY 	Part No. . 60022-50	Description .BLFC, 0.50 GPM, 5000/5600/9000/9100
		. 60385-0272	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 4.0 DLFC			. 60022-100	.BLFC, 1.0 GPM,
		. 60385-0282	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 5.0 DLFC	Not Shown	1		5000/5600/9000/9100
		. 60385-02A2	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 6.0 DLFC				.Label, Injector .Label, 0.5 GPM, 1.5 lbs salt/
		. 60385-0202	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, Blank DLFC			. 18569	min .Retainer, Tank Seal
		. 60385-0372	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 4.0 DLFC				.O-ring, -336, Top of Tank .Label, 0.25 GPM BLFC
		. 60385-0382	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 5.0 DLFC				.Label 1 GPM, 3 lbs Salt .Label, 0.125 GPM Brine Refill
		. 60385-0482	Injector Drain, 9000, 9100, 0.50 BLFC #4 INJ, 5.0 DLFC				Flow
		. 60385-0133	Injector Drain, 9000, 9100, 1.0 BLFC #1 INJ, 2.0 DLFC				
		. 60385-0143	Injector Drain, 9000, 9100, 1.0 BLFC #1 INJ, 2.4 DLFC				
		. 60385-0163	Injector Drain, 9000, 9100, 1.0 BLFC #1 INJ, 3.5 DLFC				
		. 60385-0233	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 2.0 DLFC				
		. 60385-0243	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 2.4 DLFC				
		. 60385-0253	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 3.0 DLFC				
		. 60385-0263	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 3.5 DLFC				
		. 60385-0273	Injector Drain, 9000, 9100, 1.0 BLFC #2 INJ, 4.0 DLFC				
		. 60385-0353	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 3.0 DLFC				
		. 60385-0373	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 4.0 DLFC				
		. 60385-0383	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 5.0 DLFC				
		. 60385-0393	.Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 7.0 DLFC				
		. 60385-0120	.Injector Drain, 9000, 9100, Blank BLFC #1 INJ, 1.5 DLFC				
56		. 60022-12	BLFC, 0.125 GPM, 5000/5600/9000/9100				
		. 60022-25	.BLFC, 0.25 GPM, 5000/5600/9000/9100				

9500 CONTROL VALVE ASSEMBLY



		Part No.	•
			.Valve Body, 9500, Machining
2	16	16101	.Seal, 2850, 4500
		41113	.Seal, 2850, 559PE
3	12	16638	.Spacer, 9500/2850, Cold & Hot Water
		16638-02	.Spacer, 9500/2850, MS1050, Plastic
4	1	17092	.Spacer, Disc, 9500
5	1	43458-01	.End Cap, Plastic, 9500
6	1	16455	.0-ring, -347
7	4	15331	.Screw, Hex Washer Head
8	2	17558	.Disc, Spacer, End Plug
9	3	16394	.0-ring, -029
10	1	17110	.Piston, 9500, Upper
11	2	14309	.Retainer, Piston Rod
12	1	16957	.Rod, Piston, 9500
13	2	16954	.Plug, End, 9500
14	2	13008	.Retainer, End Plug Seal
15	2	10209	.Quad Ring, -010

ltem No.	QTY	Part No.	Description
16	1	. 14921	Link, Piston Rod
17	2	11335	.Screw, #4-40
18	2	. 17020	.Screw, STL. Hex Washer, 6-20 x 3/8
19	2	13363	.Washer, Plain, .145 ID S.S.
20	1	17111	.Piston, 9500, Lower
21	1	16956	.Rod, Piston, Lower, 9500
22	1	. 15019	Link, Piston Rod, 9000/9500, 9100
23	2	14804	.Screw, Slotted Hex Head
24	1	. 15413	.Fitting, Elbow, Male, 1/2 TX 3/8 NPT
25	1	17777-03	.Body, Injector, 1700
26	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
27	1	14805	.Gasket, Injector Body
28	1	14801-03C	.Nozzle, Injector, 3C, Yellow
		14801-04C	.Nozzle, Injector, 4C, Green

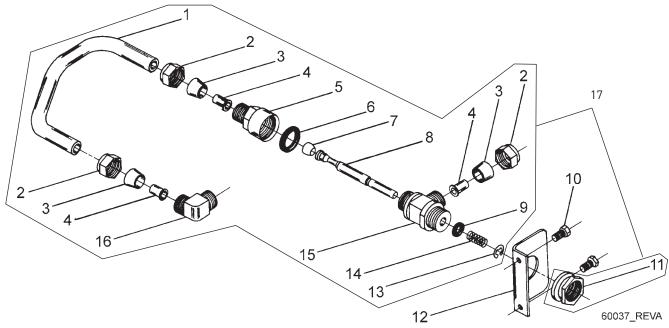
9500 CONTROL VALVE ASSEMBLY CONTINUED

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
			Nozzle, Injector, 5C, White			. 60481-21	Injector Assy, 1600, #1, S.S. Brass, HW
			Nozzle, Injector, 6C, Red			40/01 22	
			Gasket, Injector Body			. 00481-22	Injector Assy, 1600, #2, S.S. Brass, HW
		11893 13577				. 60481-23	Injector Assy, 1600, #3, S.S.
		13377 13771	•				Brass, HW
		njector Part Nu					Injector Assy, 1600, #1, PVC
•		-	Body, Injector, 1600				Injector Assy, 1600, #2, PVC
			Fitting, Elbow, 90 Deg.			. 60080-14	Injector Assy, 1600, #4, PVC
35		. 10913-1	Nozzle, Injector, #1, Natural	Not Shown			
36		10914	Throat, Injector			. 60366-00	DLFC, 1 inch F x 3/4 inch F, NPT, No Button
37		. 10227	Screen, Injector			40244 04	DLFC, 1 inch F x 3/4 inch F,
38		. 10229	Gasket, Injector Body			. 00300-00	NPT, 0.6 GPM
39		11893	Cap, Injector			. 60366-08	DLFC, 1 inch F x 3/4 inch F,
40		. 10692	Screw, Slot, Indented Hex				NPT, 0.8 GPM
41		. 14805	Head Gasket, Injector Body			. 60366-10	DLFC, 1 inch F x 3/4 inch F, NPT, 1.0 GPM
42			Piston Assy, 9500, Upper			. 60366-12	DLFC, 1 inch F x 3/4 inch F,
			Piston Assy, 9500, Upper, HW			. 60366-13	NPT, 1.2 GPM DLFC, 1 inch F x 3/4 inch F, NPT, 1.3 GPM
10			Piston Assy, 9500, Upper, 560CD			. 60366-15	DLFC, 1 inch F x 3/4 inch F, NPT, 1.5 GPM
43			Piston Assy, 9500, Lower			. 60366-17	DLFC, 1 inch F x 3/4 inch F,
		60109-01	Piston Assy, 9500, HW, Lower				NPT, 1.7 GPM
		. 60109-02	Piston Assy, 9500, Lower, 560CD				DLFC, 1 inch F x 3/4 inch F, NPT, 2.0 GPM
44		. 60134	Seal & Spacer Kit, 9500, Upper, Hot & Cold				DLFC, 1 inch F x 3/4 inch F, NPT, 2.4 GPM
	••••	. 60134-20	Seal & Spacer Kit, 9500, Upper, Plastic Spacers,				DLFC, 1 inch F x 3/4 inch F, NPT, 3.0 GPM
45		. 60133-01	Chemical Resistent SealsSeal & Spacer Kit, 9500,				DLFC, 1 inch F x 3/4 inch F, NPT, 3.5 GPM
		. 60133-20	Lower, Hot & Cold Seal & Spacer Kit, 9500,			. 60366-40	DLFC, 1 inch F x 3/4 inch F, NPT, 4.0 GPM
			Lower, Plastic Spacers, Chemical Resistent Seals			. 60366-45	DLFC, 1 inch F x 3/4 inch F, NPT, 4.5 GPM
46			Injector Assy, 1700, #3C Injector Assy, 1700, #4C			. 60366-50	DLFC, 1 inch F x 3/4 inch F, NPT, 5.0 GPM
			Injector Assy, 1700, #5C			. 60366-60	DLFC, 1 inch F x 3/4 inch F,
			Injector Assy, 1700, #6C				NPT, 6.0 GPM
47			Injector Assy, 1600, #0, Plastic				DLFC, 1 inch F x 3/4 inch F, NPT, 7.0 GPM
		. 60480-01	Injector Assy, 1600, #1,			. 60708-00	DLFC, 1 inch F x 3/4 inch F, NPT, No Button
		. 60480-02	Injector Assy, 1600, #2, Plastic			. 60708-8.0	DLFC, 1 inch F x 3/4 inch F, NPT, 8.0 GPM
		. 60480-03	Injector Assy, 1600, #3, Plastic			. 60708-9.0	DLFC, 1 inch F x 3/4 inch F, NPT, 9.0 GPM
		. 60480-04	Injector Assy, 1600, #4, Plastic			. 60708-10	DLFC, 1 inch F x 3/4 inch F, NPT, 10.0 GPM

9500 CONTROL VALVE ASSEMBLY CONTINUED

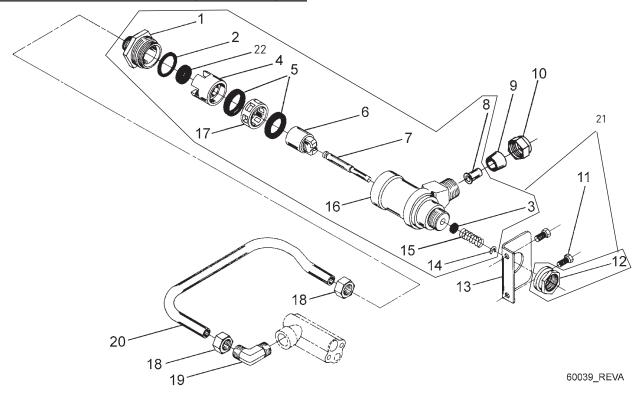
Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
		60708-12	DLFC, 1 inch F x 3/4 inch F, NPT, 12.0 GPM			60721-70	DLFC, 1 inch F x 1 inch F, NPTF, 7.0 GPM
		60708-15	DLFC, 1 inch F x 3/4 inch F, NPT, 15.0 GPM			60702-00	DLFC, 1 inch M x 1 inch F, NPT, Brass, No Button
		60721-00	DLFC, 1 inch F x 1 inch F, NPT, No Button			60702-8.0	DLFC, 1 inch M x 1 inch F, NPT, 8.0 GPM
		60721-06	DLFC, 1 inch F x 1 inch F, NPT, 0.06 GPM			. 60702-9.0	DLFC, 1 inch M x 1 inch F, NPT, 9.0 GPM
		60721-08	DLFC, 1 inch F x 1 inch F, NPT, 0.08 GPM			. 60702-10	DLFC, 1 inch M x 1 inch F, NPT, 10 GPM
		60721-10	DLFC, 1 inch F x 1 inch F, NPT, 1.0 GPM			60702-12	DLFC, 1 inch M x 1 inch F, NPT, 12 GPM
		60721-12	DLFC, 1 inch F x 1 inch F, NPT, 1.2 GPM			60702-15	DLFC, 1 inch M x 1 inch F, NPT, 15 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				
		60721-30	DLFC, 1 inch F x 1 inch F, NPTF, 3.0 GPM				
		60721-35	DLFC, 1 inch F x 1 inch F, NPTF, 3.5 GPM				
		60721-40	DLFC, 1 inch F x 1 inch F, NPTF, 4.0 GPM				
		60721-45	DLFC, 1 inch F x 1 inch F, NPTF, 4.5 GPM				
		60721-50	DLFC, 1 inch F x 1 inch F, NPTF, 5.0 GPM				
		60721-60	DLFC, 1 inch F x 1 inch F, NPTF, 6.0 GPM				

1600 BRINE VALVE SYSTEM (FOR 9500)



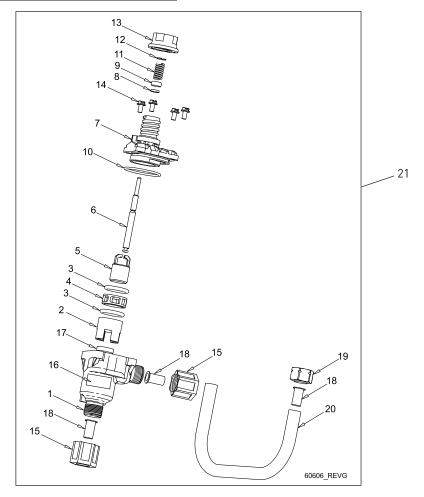
Item No.	QTY	Part No.	Description
1	1	. 16960	Tube, Brine Valve
	1	. 16960	Tube, Brine Valve, HW
2	1	. 10329	Fitting, Tube, 3/8 Nut, Brass
		. 18698	Nut, 3/8-inch Tube, W/ Sleeve, HW
3	1	. 10330	Fitting, Sleeve, 3/8 Celcon
4	1	. 10332	Fitting, Insert, 3/8
5	1	. 12747	Fitting, Flow Control
		. 60020-25	BLFC, 0.25 GPM, 1600
		. 60020-50	BLFC, 0.50 GPM, 1600
		. 60020-100	BLFC, 1.0 GPM, 1600
6	1	. 12550-01	Quad Ring, -009, 560CD
7	1	. 12626-01	Seat, Brine Valve, 560CD
8	1	. 16958	Brine Valve Stem, 1600 Coated
9	1	. 11982-01	O-ring, -016, 560CD
10	3	. 15137	Screw, Hex Washer Mach, 10-24 x 3/8
11	3	. 10269	Nut, Jam, 3/84 - 16
12	3	. 16922	Bracket, Brine Valve Mounting
13	1	. 10250	Ring, Retaining
14	1	. 10249	Spring, Brine Valve
15	1	. 12748-01	Brine Valve Body, 1600
16	2	. 10328	Fitting, Elbow, 90 Deg.
17	•••••	. 60037-610	Brine Valve Assy. 9500/1600 0.25 GPM
		. 60037-620	Brine Valve Assy. 9500/1600 0.50 GPM
		. 60037-630	Brine Valve Assy. 9500/1600 1.0 GPM
		. 60037HW	Brine Valve Assy. 9500/1600 Hot Water

1700 BRINE VALVE SYSTEM (FOR 9500)



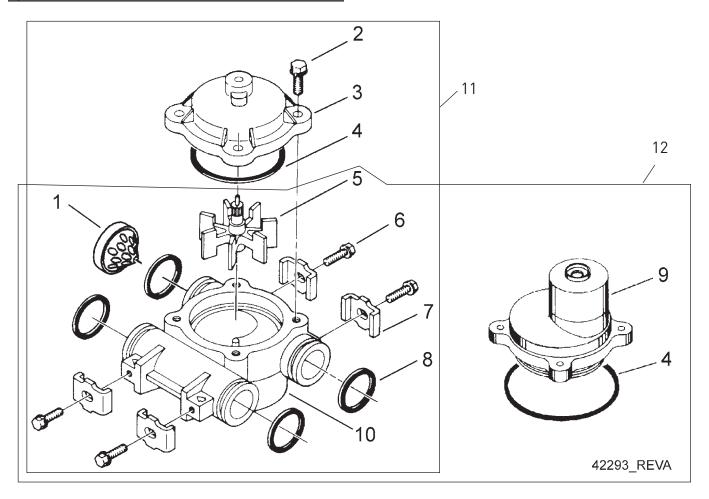
Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	. 14792	Plug, End, Brine Valve	21		. 60039-10	Brine Valve Assy. 9500/1700
2	1	. 13201	Quad Ring, -020				1.0 GPM
			Quad Ring, -20, 560CD			. 60039-12	Brine Valve Assy. 9500/1700 1.2 GPM
3			Quad Ring, -009 Quad Ring, -009, 560CD			. 60039-15	Brine Valve Assy. 9500/1700 1.5 GPM
			Retainer, Flow Control O-ring, -210, 560CD, Brine			. 60039-20	Brine Valve Assy. 9500/1700 2.0 GPM
6	1	14795	Piston, Brine Valve Brine Valve Stem, Coated			. 60039-24	Brine Valve Assy. 9500/1700 2.4 GPM
8	1	. 15415	Fitting, Insert, 1/2-inch Tube			. 60039-30	Brine Valve Assy. 9500/1700 3.0 GPM
		. 16124 . 16123	Fitting, Sleeve, Delrin Nut, Brass			. 60039-50	Brine Valve Assy. 9500/1700 5.0 GPM
11	1	. 15137	Screw, Hex Washer Mach, 10-24 x 3/8			. 60039-00	Brine Valve Assy. 9500/1700 Blank
12	1	. 10269	Nut, Jam, 3/4 - 16	22		. 12097	Washer, Flow, 1.0 GPM
13	1	. 16922	Bracket, Brine Valve Mounting			. 12085	Washer, Flow, 1.2 GPM Washer, Flow, 1.3 GPM
14	2	. 10250	Ring, Retaining				Washer, Flow, 1.5 GPM
15	1	. 15310	Spring, Brine Valve				Washer, Flow, 1.7 GPM
16	2	. 14790	Brine Valve Body				Washer, Flow, 2.0 GPM
17	1	. 14798	Spacer, 1700, Brine				Washer, Flow, 2.4 GPM
18	1	. 15414	Nut, 2900, w/Sleeve				Washer, Flow, 3.0 GPM
19	1	. 15413	Fitting, Elbow, Male, 1/2T x 3/8 NPT			. 12090	Washer, Flow, 3.5 GPM
20	1	. 16959	Tube, Brine 9500/1710, 10.6 inches				Washer, Flow, 4.0 GPM Washer, Flow, 4.5 GPM
		. 16959-01	Tube, Brine Valve 9500/1710, CPVC, Hot Water				Washer, Flow, 5.0 GPM Washer, Flow, 6.0 GPM
20 - El E 0	V ® 0000	/0100/0500 C - · · · ·					Washer, Flow, 7.0 GPM

1710 BRINE VALVE SYSTEM (FOR 9500)



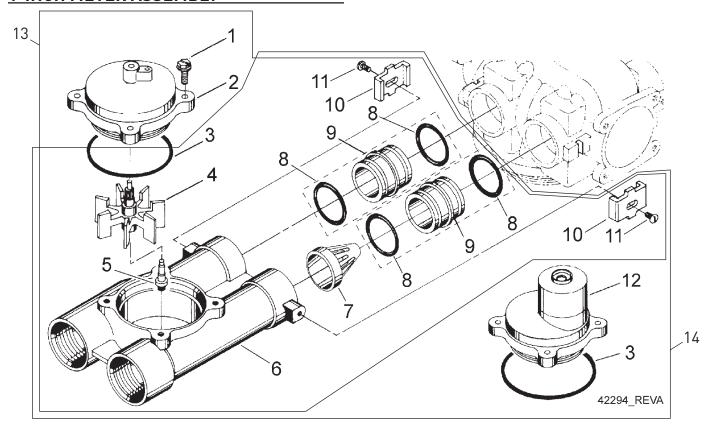
Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	. 41202	Brine Valve, 1700, Plastic,	17	1		Washer, Flow (Specify GPM)
			Тор	18	3	. 15415	Fitting, Insert, 1/2-inch, Tube
2	1	. 14785-01	Retainer, Flow Control	19	1	. 15414	Nut, 2900, w/Sleeve
3	2	. 14811	0-ring, -210, 560CD, Brine	20	1	. 16959	Tube, Brine 9500/1700, 10.6
4	1	. 14798	Spacer, 1700, Brine				inches
5	1	. 14795	Piston, Brine Valve	21		. 60606-10	Brine Valve Assy. 9500/1710
6	1	. 41429	Stem, Brine, 1710, Plastic,				1.0 GPM
7	1	/1201	9500 Pring Valve 1700 Plantin			. 60606-12	Brine Valve Assy. 9500/1710 1.2 GPM
/		. 41201	Brine Valve, 1700, Plastic, Bottm			. 60606-15	Brine Valve Assy. 9500/1710
8	1	12550	Ring, Quad, -009				1.5 GPM
			Sleeve, Brine Valve Stem			. 60606-20	Brine Valve Assy. 9500/1710 2.0 GPM
10	1	. 41547	0-ring, 2mm x 35mm			40404 27	Brine Valve Assy. 9500/1710
11	1	. 15310	Spring, Brine Valve		•••••	. 00000-24	2.4 GPM
12	1	. 10250	Ring, Retaining			. 60606-30	Brine Valve Assy. 9500/1710
13	1	. 17906-01	Guide, Brine Valve Stem				3.0 GPM
14	4	. 14202-01	Screw, Hex Washer, Mach, 8-32 x 5/16			. 60606-40	Brine Valve Assy. 9500/1710 4.0 GPM
15	2	. 41056	Nut Assy, 1/2-inch Plastic			. 60606-50	Brine Valve Assy. 9500/1710
16	1	. 41493-XX	Label, BLFC, 1710				5.0 GPM
			(Specify GPM)			. 60606-00	Brine Valve Assy. 9500/1710 Blank

3/4-INCH METER ASSEMBLY



Item No.	QTY	Part No.	Description
1	1	. 14613	Flow Straightener
2	4	. 12473	Screw, Hex Washer, 10-24 x 5/8
3	1	. 14038	Meter Cap Assy, STD, Plastic
4	1	. 13847	0-ring, -137, Std/560CD, Meter
5	1	. 13509	Impeller, Meter
6	4	. 13314	Screw, Slot Ind Hex, 8-18 x .60
7	4	. 13255	Clip, Mounting
8	4	. 13305	0-ring, -119
9	1	. 15150	Meter Cap Assy, EXT, Plastic Paddle
10	1	. 13821	Body, Meter, 5600
11	1	. 60086	Meter Assy, 3/4-inch Dual Port, Slip, STD, Plastic, Paddlewheel, w/Clips
12	1	. 60087	Meter Assy, 3/4-inch Dual Port, Slip, EXT, Plastic, Paddlewheel, w/Clips

1-INCH METER ASSEMBLY



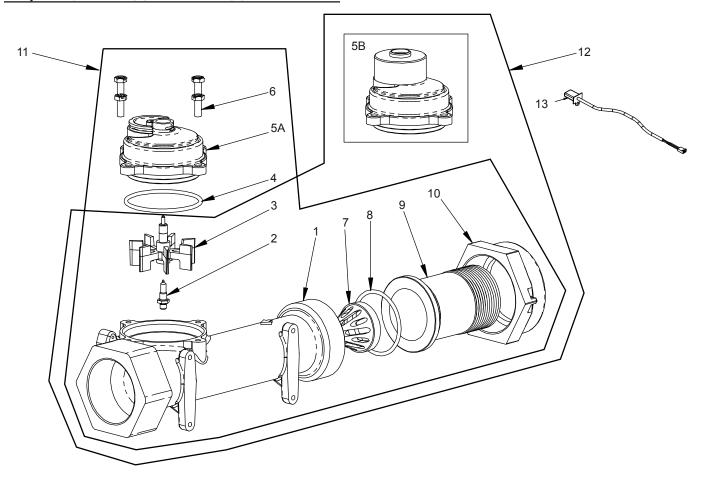
1-INCH METER ASSEMBLY

		Part No.	•
1	4	. 12112	Screw, Hex Hd Mach 10-24 x 1/2
2	1	. 15218	Meter Cap Assy, Brass, Standard
		. 14038	Meter Cap Assy, Standard
3	1	. 13847	O-ring, -137, STD/560CD, Meter
4	1	. 13509	Impeller, Meter
		. 13509-01	Impeller, Celcon
5	1	. 13882	Post, Meter Impeller
6	1	. 15043	Body, Meter, 9000 1-inch
7	1	. 14960	Flow Straightener, 1-inch
8	4	. 13305	O-ring, -119
9	2	. 15078	Adapter, 1-inch Coupling
10	2	. 13255	Clip, Mounting
11	2	. 14202-01	Screw, Hex Washer Mach, 8-32 x 5/16
12	1	. 15150	Meter Cap Assy, Ext, Plastic Paddle
		. 15237	Meter Cap Assy, Ext, Brass Paddle
13		. 60390	Meter Assy, 1-inch Dual Port, NPT, EXT, BRS BDY, PDL, W/CLPS
		. 60390-001	Meter Assy, 1-inch Dual Port, NPT, EXT, BRS BDY, 560CD, PDL, W/CLPS
		. 60390NP	Meter Assy, 1-inch Dual Port, NPT, EXT, BRS BDY, NP, PDL, W/CLPS
		. 60632	Meter Assy, 1-inch Dual Port, NPT, EXT, BRS, HW, PDL
		. 60632NP	Meter Assy, 1-inch Dual Port, NPT, EXT, BRS, HW, NP, PDL
		. 60389	Meter Assy, 1-inch Dual Port, NPT, STD, BRS BDY, PDL, W/CLPS
		. 60389-001	Meter Assy, 1-inch Dual Port, NPT, STD, BRS BDY, 560CD, PDL, W/CLPS

QTY	Part No.	Description
	. 60389-001NP	Meter Assy, 1-inch Dual Port, NPT, STD, BRS BDY, 560CD, PDL, W/CLPS
	. 60389NP	Meter Assy, 1-inch Dual Port, NPT, STD, BRS BDY, NP, PDL, W/CLPS
	. 60612	Meter Assy, 1-inch Dual Port, NPT, STD, BRS, HW, PDL
	. 60612NP	Meter Assy, 1-inch Dual Port, NPT, STD, BRS, HW, NP, PDL
	. 61575	Meter Assy, 1-inch Dual Port, NPT, STD, BRS BDY, PDL, W/O CLP & SCW
	. 60389-20	Meter Assy, 1-inch Dual Port, BSP/Metric, STD, BRS BDY, PDL, W/CLPS
	. 60390-20	Meter Assy, 1-inch Dual Port, BSP/Metric, EXT, BRS BDY, PDL, W/CLPS
	. 60632-20	Meter Assy, 1-inch Dual Port, BSP/Metric, EXT, BRS, HW, PDL
	. 60612-20	Meter Assy, 1-inch Dual Port, BSP/Metric, STD, BRS, HW, PDL

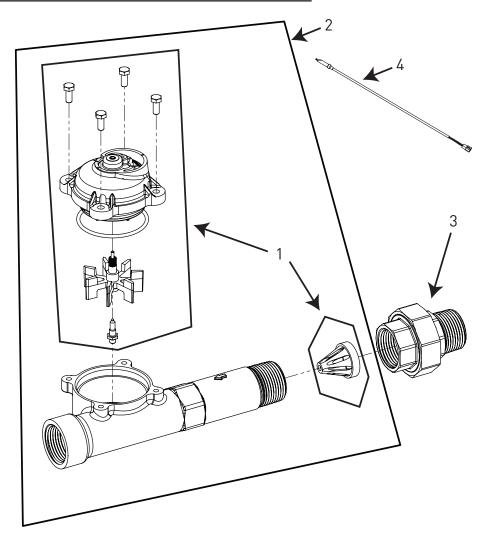
Item No.

1-1/2 INCH BRASS METER ASSEMBLY



Item No.QTY Page 1	art No.	Description	Item No.		Part No.	Description
1 1 17	7569	.Body, Meter, 2850/9500	12		. 60610-02	Meter Assy, 1-1/2 inch, NPT, STD, Brass Paddlewheel
2 1 13	3882	.Post, Meter Impeller			10/10 00	
3 1 13		•			. 60610-22	Meter Assy, 1-1/2 inch, BSP, EXT, Brass Paddlewheel
1 13	3509-01	.Impeller, Celcon, Hot Water	13	1	. 19121	Meter Cable Assembly,
41 13	3847	.0-Ring, -137, Std/560CD, Meter			. 19121-08	Meter Cable Assembly, 35 inch long with connector
5A1 14	4038	.Meter Cap Assy, STD Range, Plastic			. 19121-09	Meter Cable Assembly, 100 inch long with connector
5B1 15	5150	.Meter Cap Assy, Ext Range, Plastic			. 19121-10	Meter Cable Assembly 304 inch long with connector
612	2112	.Screw, Hex Hd Mach, 10-24 x 1/2 18-8 Stainless Steel	Not Shown	-	17700	
7 1 17	7542	.Flow Straightener, 1-1/2 inches		l	. 17790	Sleeve, Meter, 1-1/2 inch x 1 inch
81 12	2733			1	. 15218	Meter Cap Assy, STD Range, Brass, Hot Water
9 1 17	7544	.Fitting, 1-1/2 inch Quick Connector		1	. 15237	Meter Cap Assy, EXT Range, Brass, Hot Water
10 1 17	7543	.Nut, 1-1/2-inch, Q/C				Sleeve, Meter, 1.5 inch x 1
11 60	0610-01	.Meter Assy, 1-1/2 inch, NPT, STD, Brass, Paddlewheel				inch
60	0610-21	.Meter Assy, 1-1/2 inch, BSP, STD, Brass, Paddlewheel				

1-1/2 INCH STAINLESS STEEL METER ASSEMBLY

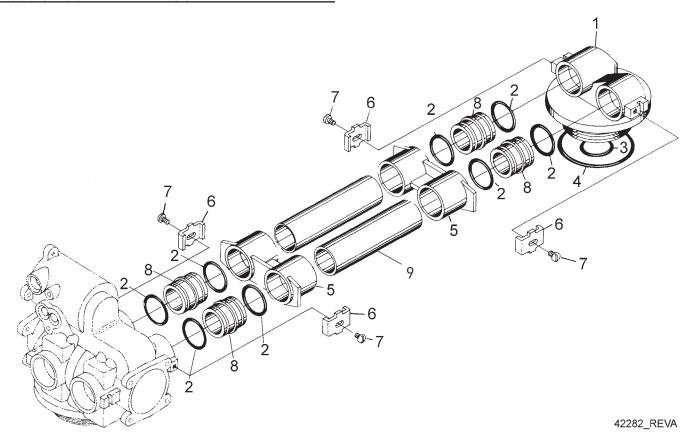


⚠ IMPORTANT: For valves equipped with electromechanical timers and stainless steel meters, refer to the Meter Dome and Union Orientation section.

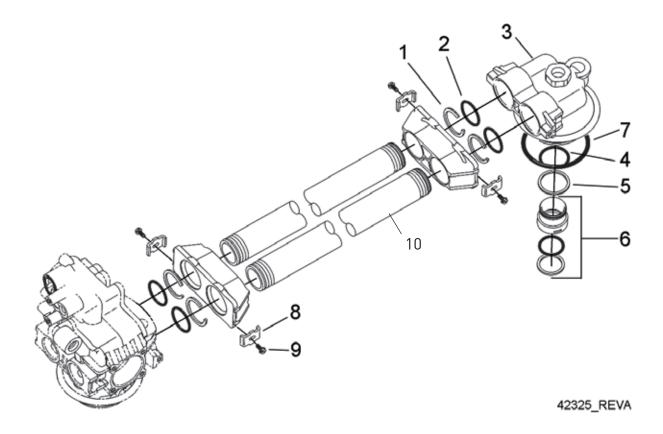
Item No.	QTY	Part No.	Description
1	1	62049-01	Service Kit, 1 inch & 1-1/2 inch Meter, Standard Range
	1	. 62049-02	Service Kit, 1 inch & 1-1/2 inch Meter, Extended Range
2	1	61933-10	Meter Assy, 1-1/2 inch, Inline, Stainless Steel, NPT, Standard Range
	1	61933-11	Meter Assy, 1-1/2 inch, Inline, Stainless Steel, NPT, Extended Range
	1	61933-20	Meter Assy, 1-1/2 inch, Inline, Stainless Steel, BSP, Standard Range
	1	61933-21	Meter Assy, 1-1/2 inch, Inline, Stainless Steel, BSP, Extended Range

Item No.	QTY	Part No.	Description
3	1	. 44024	Union, 1-1/2 inch, NPT Optional on models with elec- tronic controls)
	1	. 44025	Union, 1-1/2 inch, BSP (Optional on models with electronic controls)
4	1	. 19121	Meter Cable Assembly,
		. 19121-08	Meter Cable Assembly, 35 inch long with connector
		. 19121-09	Meter Cable Assembly, 100 inch long with connector
		. 19121-10	Meter Cable Assembly 304 inch long with connector
Not Show	n (optio	nal)	
	1	. 44061	Meter Sleeve, 1-1/2 inch to 1 inch (optional)

9000 SECOND TANK ASSEMBLY

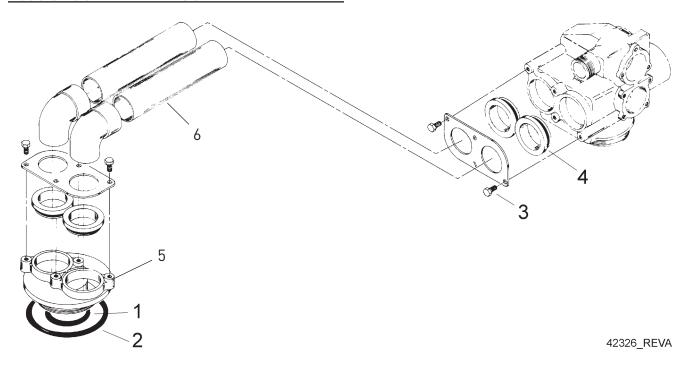


Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	. 14864-01	Adapter, 9000, 2nd Tank, Machd w/0-rings			15823-12NP.	9000 Tube Assy, 6-inch to 12-inch Dia. Tank (Overall
2	8	. 13305	0-ring, -119				Length 9.75)
3	1	. 11710	0-ring, -215			15823-14	9000 Tube Assy, 14-inch Dia.
4	1	. 12281	0-ring, -338			45000 44115	Tank (Overall Length 11.75)
			Yoke, 1-inch Sweat			15823-14NP.	9000 Tube Assy, 14-inch Dia. Tank (Overall Length 11.75)
			Yoke Assy. Specify Tank Size			15823-16	9000 Tube Assy, 16-inch Dia. Tank (Overall Length 13.75)
6	4	. 13255	Clip, Mounting			15823-16NP	9000 Tube Assy, 16-inch Dia.
7	4	. 14202-01	Screw, Hex Washer Mach, 8-32 x 5/16		••••	10020 10141 .	Tank (Overall Length 13.75)
8	4	. 15078	Adapter, 1-inch Coupling				
9		. 15823-06	9000 Tube Assy, 6-inch Dia. Tank Only (Overall Length 7.25)				
		. 15823-06NP.	9000 Tube Assy, 6-inch Dia. Tank Only (Overall Length 7.25)				
		. 15823-12	9000 Tube Assy, 6-inch to 12-inch Dia. Tank (Overall Length 9.75)				



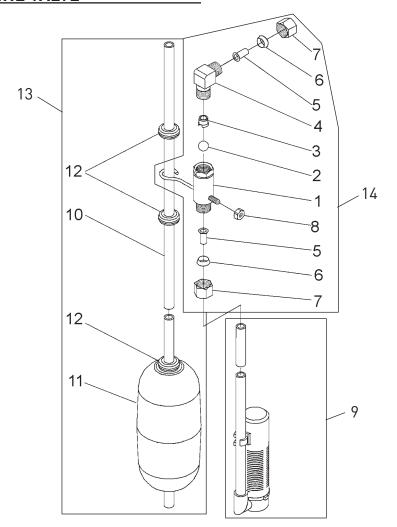
Item No.	QTY	Part No.	Description
1	4	. 40678	Ring, 9100, Yoke Retainer
2	4	. 13287	O-ring, -123
3	1	. 14865	Adapter Assy, 2nd Tank, 9100
4	1	. 19054	O-ring, -124
5	1	. 40538	Retainer, 32mm, 0-ring Dist, 7000
6	1	. 61419	Kit, 1.05-inch Distributor, Adapter
7	1	. 18303	O-ring, -336
8	4	. 13255	Clip, Mounting
9	4	. 14202-01	Screw, Hex Washer Mach, 8-32 x 5/16
10	•••••	. 60425-9	Tube Assy, 9100 8-9-inch Tank
		. 60425-12	Tube Assy, 9100 6-12-inch Tank
		. 60425-16	Tube Assy, 9100 13-16-inch Tank

9500 SECOND TANK ASSEMBLY



Item No.	QTY	Part No.	Description
1	1	13577	O-ring, -226
2	1	16455	0-ring, -347
3	8	10231	Screw, Slot Hex, 1/4 - 20 x 1/2
4	4	17224	O-ring, -224
5	1	16916-01	Adapter, 9500, 2nd Tank, NPT
		16916-21	Adapter, 9500, 2nd Tank, Metric
		16916-01NP	Adapter, 9500, 2nd Tank, NPT, Nickel Plated
6		17465-16	Tube Assy, 2nd Tank, 16-inch 9500
	••••	17465-16NP	Tube Assy, 2nd Tank, 16-inch 9500 Nickel Plated
		17465-20	Tube Assy, 2nd Tank, 20-inch 9500
		17465-24	Tube Assy, 2nd Tank, 24-inch 9500
		17465-24NP	Tube Assy, 2nd Tank, 24-inch 9500 Nickel Plated

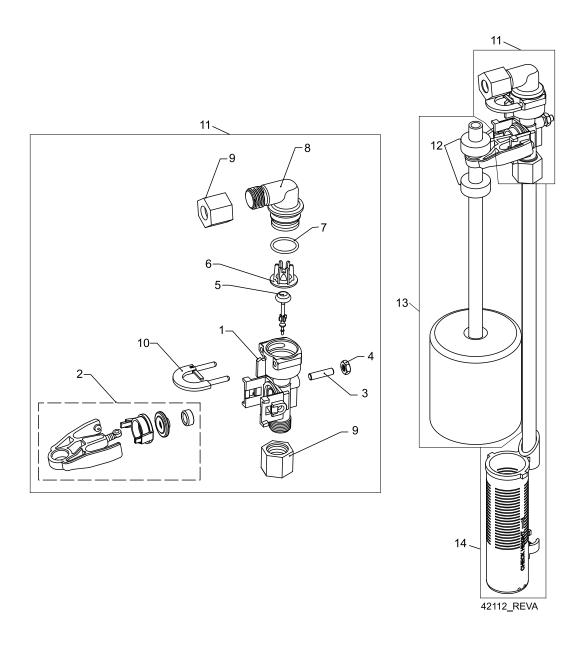
2300 SAFETY BRINE VALVE



60027 F	Rev D
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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

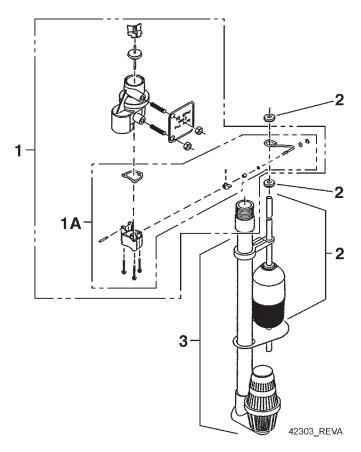
Item No.	QTY	Part No.	Description
		60002-34	.Air Check, #500, 34 inches Long
		60002-36	.Air Check, #500, 36 inches Long
		60002-48	.Air Check, #500, 48 inches Long
		60002-26.25	.Air Check, #500, 26.25 inches Long
		60002-33.25	.Air Check, #500, 33.25 inches Long
10	1	10149	.Rod, Float, 30 inches
11	1	10700	.Float Assy, White
12	3	10150	.Grommet, .30 Dia
13	1	60028-30	.Float Assy, 2300, 30 inches White
14	1	60027-FFA	.Safety Brine Valve, 2300, Fitting Facing Arm
	1	60027-FFS	.Safety Brine Valve, 2300 Fitting Facing Stud



2310 SAFETY BRINE VALVE

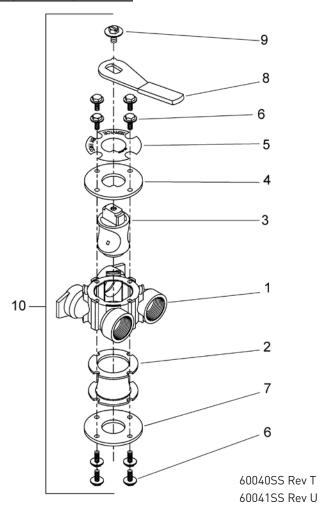
Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1	1	. 19645	.Body, Safety Brine Valve, 2310	14	1	. 60002-10	Air Check, #500, American Hydro
			.Safety Brine Valve Assy			. 60002-11.38	Air Check, #500, 11.38 inches
3	1	. 19804	.Screw, Sckt Hd, Set, 10-24 x .75			. 60002-24	Long Air Check, #500, 24 inches
4	1	. 19805	.Nut, Hex, 10-24, Nylon Black			. 60002-27	Long Air Check, #500, 27 inches
			.Poppet Assy, SBV w/0-ring .Flow Dispenser			. 60002-32	Long Air Check, #500, 32 inches
		. 11183 . 19647	.0-ring, -017 .Elbow, Safety Brine Valve			. 60002-34	Long Air Check, #500, 34 inches Long
			.Nut Assy, 3/8-inch Plastic .Retainer, Drain			. 60002-36	Air Check, #500, 36 inches Long
11	1	. 60014	.Safety Brine Valve Assy, 2310			. 60002-48	Air Check, #500, 48 inches Long
			.Grommet, .30 Dia .Float Assy, 2310, w/8.06-inch Rod				Air Check, #500, 26.25 inches Long Air Check, #500, 33.25 inches
		. 60068-10.5	.Float Assy, 2310, w/10.5-inch Rod			. 00002 00.20	Long
		. 60068-11.5	.Float Assy, 2310, w/11.5- inch Rod				
		. 60068-20	.Float Assy, 2310, w/20-inch Rod				
		. 60068-30	.Float Assy, 2310, w/30-inch Rod				

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 Show	n		
	1	18603	Fitting Assy, 900 Air Check 2350
	1	18602	Fitting Assy, 900 Air Check

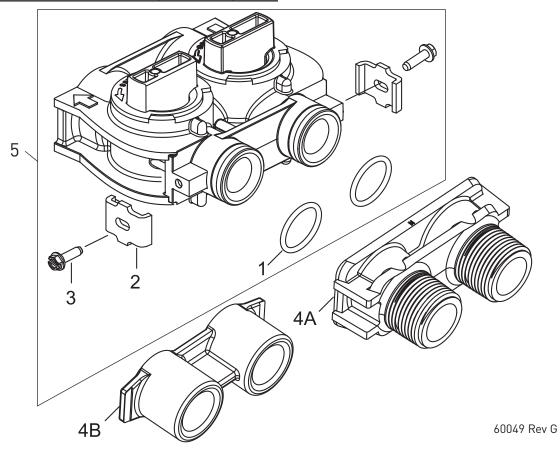
BYPASS VALVE ASSEMBLY (METAL)



Item No.	QTY	Part No.	Description
1	1	. 40614	Bypass Body, 3/4-inch
		. 40634	Bypass Body, 1-inch, SS
2	1	. 14105	Seal, Bypass, 560CD
3	1	. 11972	Plug, Bypass
4	1	. 11978	Side Cover
5	1	. 13604-01	Label
6	8	. 15727	Screw, 10-24 x 0.5
7	1	. 11986	Side Cover
8	1	. 11979	Lever, Bypass
9	1	. 11989	Screw, Hex Head, 1/4-14 x 1.5- inch
10	1	. 60040SS	Bypass Valve, 5600, 3/4-inch NPT Blk Grip Lever, SS
		. 60041SS	Bypass Valve, 5600, 1-inch NPT Blk Grip Lever, SS
*	2	. 19228-01	Adapter Assy, Coupling, w/O-rings

^{*}Not Shown

BYPASS VALVE ASSEMBLY (PLASTIC)



Item No.	QTY	Part No.	Description
1	2	13305	0-ring, -119
2	2	13255	Clip, Mounting
3	2	13314	Screw, Slot Ind Hex, 8-18 x .60
4A	1	18706	Yoke, 1-inch, NPT, Plastic
		18706-02	Yoke, 3/4-inch, NPT, Plastic
4B	1	13708-40	Yoke, 1-inch, Sweat
		13708-45	Yoke, 3/4-inch, Sweat
		19275	Yoke, Angle 90 Deg, 3/4-inch, NPT
		19275-45	Yoke, Angle 90 Deg, 3/4-inch Sweat
		19620-01	Yoke Assy, 3/4-inch, R/ Angle, 90 Deg w/0-rings, Clips & Screws
		40636	Yoke, 1-1/4 inch, NPT
		40636-49	Yoke, 1-1/4 inch, Sweat
		41027-01	Yoke, 3/4-inch, NPT, Cast, Machined
		41026-01	Yoke, 1-inch, NPT, Cast, Machined, SS

Item No.	QTY	Part No.	Description
		41026-02	Yoke, 1-inch, BSP, Cast, MACHD, SS
		18706-10	Yoke, 1-inch, BSP, Plastic
		41027-02	Yoke, 3/4-inch, BSP, Cast, MACHD
		18706-12	Yoke, 3/4-inch, BSP, Plastic
		19620-01	Yoke Assy, 3/4-inch, R/Angle, 90 Deg
5	1	60049	Bypass Plastic
*	2	19228-01	Adapter Assy, Coupling, w/O-rings
*Not Show	n		

*Not Shown

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.

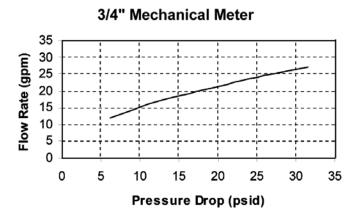
Correction: Check meter with meter checker.

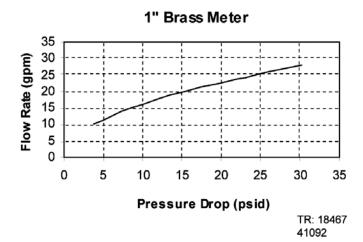
TROUBLESHOOTING

regenerate. Interrupted Plug, pull chain, or switch)	Problem	Cause	Correction	
Power failure. Reset time of day.			Assure permanent electrical service (check fuse, plug, pull chain, or switch)	
Hard water. By-pass valve is open. Close by-pass valve.		Timer is defective.	Replace timer.	
No salt is in brine tank. Injector screen plugged. Injector screen plugged. Clean injector screen. Insufficient water flowing into brine tank. Check brine tank fill time and clean brine line control if plugged. Hot water tank hardness. Repeated flushings of the hot water tank is required. Leak at distributor tube. Internal valve leak. Unit used too much salt. Improper salt setting. Excessive water in brine tank. Loss of water pressure. Iron buildup in line to water conditioner. Iron buildup in water conditioner. Inter ocntrol plugged due to foreign material broken loose from pipes by recent work done on plumbing system. Loss of mineral through drain line. Air in water system. Iron in conditioned water. Excessive water in brine tank. Excessive water in brine tank. Plugged drain line flow control. Check for proper drain rate. Plugged drain line flow control. Check backwash, brine draw, and brine tank. Plugged injector system. Clean injector and screen. Timer not cycling. Replace timer. Pereign material in brine line flow control. Clean injector and screen. Timer not cycling. Replace timer. Foreign material in brine line flow control. Clean fine flow control. Clean injector and screen. Timer not cycling. Replace timer. Foreign material in brine line flow control. Clean fine flow control. Clean fine flow control. Clean fine flow control. Drain line flow control is plugged. Clean screen. Injector is plugged. Clean screen. Line pressure is too low. Internal control leak Service adapter did not cycle. Check drive motor and sasembly and inspect be Remove power head assembly if not position properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in Replace power head assembly if not position properly.		Power failure.	Reset time of day.	
Injector screen plugged. Clean injector screen.	Hard water.	By-pass valve is open.	Close by-pass valve.	
Insufficient water flowing into brine tank. Check brine tank fill time and clean brine line control if plugged.		No salt is in brine tank.	Add salt to brine tank and maintain salt level above water level.	
Hot water tank hardness. Repeated flushings of the hot water tank is required.		Injector screen plugged.	Clean injector screen.	
Leak at distributor tube. Make sure distributor tube is not cracked. Ch O-ring and tube pilot.		Insufficient water flowing into brine tank.	Check brine tank fill time and clean brine line flow control if plugged.	
Unit used too much salt. Improper salt setting. Excessive water in brine tank. Loss of water pressure. Iron buildup in line to water conditioner. Iron buildup in water conditioner. Unit used too much salt. Excessive water in brine tank. Unit used too make salt setting. Excessive water in brine tank. Unit used to water conditioner. Iron buildup in water conditioner. Unit of control plugged due to foreign material broken loose from pipes by recent work done on plumbing system. Assure that well system has proper air ellimit control. Check for dry well condition. Improperly sized drain line flow control. Unit in conditioned water. Iron in conditioned water. Pouled mineral bed. Pouled mineral bed. Plugged drain line flow control. Plugged drain line flow control. Plugged drain line flow control. Plugged injector system. Usean injector and screen. Timer not cycling. Pereign material in brine valve. Pereign material in brine line flow control. Usean brine line flow control. Drain line flow control is plugged. Usean screen. Unipector screen plugged. Usean screen. Unipector screen plugged. Usean screen. Unipector in the flow control. Unerase line pressure to 20 psi Internal control leak Service adapter did not cycle. Check drive motor and switches. Service adapter did not cycle. Check timer program and positioning of cont Replace power head assembly in tot positioni property. Foreign material in control. Remove power head assembly if not positioni property.		Hot water tank hardness.		
Unit used too much salt. Improper salt setting. Excessive water in brine tank. See "Excessive water in brine tank".		Leak at distributor tube.	Make sure distributor tube is not cracked. Check O-ring and tube pilot.	
Excessive water in brine tank. Loss of water pressure. Iron buildup in line to water conditioner. Iron buildup in water conditioner. Iron buildup in water conditioner. Inlet of control plugged due to foreign material broken loose from pipes by recent work done on plumbing system. Loss of mineral through drain line. Improperly sized drain line flow control. Excessive water in brine tank. Excessive water in brine tank. Excessive water in brine tank. Plugged drain line flow control. Plugged injector system. Clean injector and screen. Timer not cycling. Foreign material in brine 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 injector Clean rine pressure to 20 psi Internal control leak Service adapter did not cycle. Control cycles continuously. Valve is not programming correctly. Foreign material in control. Remove piston and clean control is pluged to foreign material and check control is properly. Remove piston and clean water in brine in bed. Clean brine tank water and screen. Timer not cycling. Replace brine valve seat and clean valve. Foreign material in brine line flow control. Clean brine if witch or timer is faulty and rep it, or replace complete power head. Check drive motor and switches. Control cycles continuously. Foreign material in control. Remove presipn material and check control in report material and check control in various regeneration positions.		Internal valve leak.	Replace seals and spacers and/or piston.	
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 mined. Increase frequency of regeneration.	Unit used too much salt.	Improper salt setting.	Check salt usage and salt setting.	
Iron buildup in water conditioner. Inlet of control plugged due to foreign material broken loose from pipes by recent work done on plumbing system. Loss of mineral through drain line. Improperty sized drain line flow control. Improperty sized drain line flow control. Check for proper drain rate. Fouled mineral bed. Check backwash, brine draw, and brine tank Increase frequency of regeneration. Increase backwash time. Excessive water in brine tank. Excessive water in brine tank. Excessive water in brine tank. Excessive material in brine tank increase frequency of regeneration. Increase backwash time. Excessive material in brine tank increase frequency of regeneration. Increase backwash time. Excessive material in brine tank increase frequency of regeneration. Increase backwash time. Excessive water in brine Excessive water in brine Excessive material in brine tank increase frequency of regeneration. Increase backwash time. Excessive water in brine Plugged drain line flow control. Clean injector and screen. Timer not cycling. Replace timer. Foreign material in brine line flow control. Clean brine line flow control. Clean brine line flow control. Clean injector Injector is plugged. Clean drain line flow control. Increase line pressure to 20 psi Internal control leak Service adapter did not cycle. Check drive motor and switches. Control cycles continuously. Wate is not programming correctly. Check timer program and positioning of cont property. Foreign material in control. Remove foreign material and check control in various regeneration positions.		Excessive water in brine tank.	See "Excessive water in brine tank".	
Inlet of control plugged due to foreign material broken loose from pipes by recent work done on plumbing system. Assure that well system has proper air elimin control. Check for dry well condition.	Loss of water pressure.	Iron buildup in line to water conditioner.	Clean line to water conditioner.	
material broken loose from pipes by recent work done on plumbing system. Air in water system. Air in water system. Improperly sized drain line flow control. Check for dry well condition. Improperly sized drain line flow control. Check for proper drain rate. Check backwash, brine draw, and brine tank Increase frequency of regeneration. Increase backwash time. Excessive water in brine tank. Excessive water in brine tank. Excessive water in brine tank. Plugged drain line flow control. Plugged injector system. Clean flow control. Plugged injector system. Timer not cycling. Foreign material in brine valve. Foreign material in brine tline flow control. Clean brine line flow control. Clean brine line flow control. Injector is plugged. Clean drain line flow control. Injector is plugged. Clean injector Injector screen plugged. Clean injector 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. Drain flows continuously. Valve is not programming correctly. Check timer program and positioning of cont Replace power head assembly if not positioni properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		Iron buildup in water conditioner.	Clean control and add mineral cleaner to mineral bed. Increase frequency of regeneration.	
drain line. Improperly sized drain line flow control. Check for dry well condition. Improperly sized drain line flow control. Check for proper drain rate. Fouled mineral bed. Check backwash, brine draw, and brine tank Increase frequency of regeneration. Increase backwash time. Excessive water in brine tank. Plugged drain line flow control. Plugged injector system. Clean flow control. Plugged injector system. Timer not cycling. Foreign material in brine valve. Foreign material in brine line flow control. Clean brine line flow control. Clean brine line flow control. Injector is plugged. Injector is plugged. Clean drain line flow control. Injector screen plugged. Clean screen. Line pressure is too low. Increase line pressure to 20 psi Internal control leak Service adapter did not cycle. Check drive motor and switches. Control cycles continuously. Misadjusted, broken, or shorted switch. Drain flows continuously. Valve is not programming correctly. Check timer program and positioning of cont Replace power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		material broken loose from pipes by recent	Remove piston and clean control.	
Fouled mineral bed. Check backwash, brine draw, and brine tank Increase frequency of regeneration. Increase backwash time. Excessive water in brine tank. Plugged drain line flow control. Plugged injector system. Clean flow control. Plugged injector system. Clean injector and screen. Timer not cycling. Foreign material in brine valve. Foreign material in brine line flow control. Clean brine line flow control. Injector is plugged. Clean drain line flow control. 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 rep it, or replace complete power head. Check timer program and positioning of cont Replace power head assembly if not positioni properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		Air in water system.	Assure that well system has proper air eliminator control. Check for dry well condition.	
Excessive water in brine tank. Plugged drain line flow control. Plugged injector system. Timer not cycling. Foreign material in brine tline flow control. Clean injector and screen. Timer not cycling. Foreign material in brine valve. Foreign material in brine line flow control. Clean brine line flow control. Injector is plugged. Injector is plugged. Clean injector Injector Injector screen plugged. Line pressure is too low. Internal control leak Change seals, spacers, and piston assembly. Service adapter did not cycle. Control cycles continuously. Drain flows continuously. Valve is not programming correctly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		Improperly sized drain line flow control.	Check for proper drain rate.	
tank. 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. Determine if switch or timer is faulty and rep it, or replace complete power head. Drain flows continuously. Valve is not programming correctly. Check timer program and positioning of cont Replace power head assembly if not position properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.	Iron in conditioned water.	Fouled mineral bed.	Check backwash, brine draw, and brine tank fill Increase frequency of regeneration. Increase backwash time.	
Flugged Injector system. Timer not cycling. Foreign material in brine valve. Foreign material in brine line flow control. Softener fails to draw brine. Drain line flow control is plugged. Injector is plugged. Injector screen plugged. Line pressure is too low. Internal control leak Service adapter did not cycle. Control cycles continuously. Drain flows continuously. Valve is not programming correctly. Foreign material in control. Replace timer. Replace brine valve seat and clean valve. Clean brine line flow control. Clean drain line flow control. Clean drain line flow control. Clean injector Clean injector Clean injector Clean drain line flow control. Clean injector Clean brine flow control. Determine if switch or timer is faulty and rep it, or replace complete power head. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.	Excessive water in brine	Plugged drain line flow control.	Clean flow control.	
Foreign material in brine valve. Foreign material in brine line flow control. Softener fails to draw brine. Drain line flow control is plugged. Injector is plugged. Injector screen plugged. Line pressure is too low. Internal control leak Service adapter did not cycle. Control cycles continuously. Drain flows continuously. Valve is not programming correctly. Foreign material in control. Foreign material in brine valve. Replace brine valve seat and clean valve. Clean brine line flow control. Clean drain line flow control. Clean drain line flow control. Clean screen. Line pressure to 20 psi Increase line pressure to 20 psi Change seals, spacers, and piston assembly. Check drive motor and switches. Determine if switch or timer is faulty and rep it, or replace complete power head. Check timer program and positioning of cont Replace power head assembly if not positioni properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.	tank.	Plugged injector system.	Clean injector and screen.	
Foreign material in brine line flow control. Clean drain line flow control. Clean injector Injector is plugged. Clean injector Clean injector Clean injector Clean screen. Line pressure is too low. Increase line pressure to 20 psi Change seals, spacers, and piston assembly. Service adapter did not cycle. Control cycles continuously. Misadjusted, broken, or shorted switch. Determine if switch or timer is faulty and rep it, or replace complete power head. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		Timer not cycling.	Replace timer.	
Softener fails to draw brine. Drain line flow control is plugged. Clean drain line flow control.		Foreign material in brine valve.	Replace brine valve seat and clean valve.	
Injector is plugged. 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. Control cycles continuously. Misadjusted, broken, or shorted switch. Determine if switch or timer is faulty and rep it, or replace complete power head. Valve is not programming correctly. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		Foreign material in brine line flow control.	Clean brine line flow control.	
Injector screen plugged. Line pressure is too low. Increase line pressure to 20 psi Internal control leak Service adapter did not cycle. Control cycles continuously. Misadjusted, broken, or shorted switch. Determine if switch or timer is faulty and rep it, or replace complete power head. Valve is not programming correctly. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.	Softener fails to draw brine.	Drain line flow control is plugged.	Clean drain line flow control.	
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Line pressure is too low. Increase line pressure to 20 psi Internal control leak Service adapter did not cycle. Control cycles continuously. Misadjusted, broken, or shorted switch. Drain flows continuously. Valve is not programming correctly. Valve is not programming correctly. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.				
Internal control leak Service adapter did not cycle. Control cycles continuously. Misadjusted, broken, or shorted switch. Determine if switch or timer is faulty and rep it, or replace complete power head. Valve is not programming correctly. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.			Increase line pressure to 20 psi	
Service adapter did not cycle. Control cycles continuously. Misadjusted, broken, or shorted switch. Determine if switch or timer is faulty and rep it, or replace complete power head. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		· ·		
Control cycles continuously. Misadjusted, broken, or shorted switch. Determine if switch or timer is faulty and rep it, or replace complete power head. Check timer program and positioning of cont Replace power head assembly if not positioning properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.		Service adapter did not cycle.		
Replace power head assembly if not positioni properly. Foreign material in control. Remove power head assembly and inspect be Remove foreign material and check control in various regeneration positions.	Control cycles continuously.	<u>'</u>	Determine if switch or timer is faulty and replace	
Remove foreign material and check control in various regeneration positions.	Drain flows continuously.	Valve is not programming correctly.	Check timer program and positioning of control. Replace power head assembly if not positioning	
Internal control leak. Replace seals and piston assembly.		Foreign material in control.	Remove power head assembly and inspect bore. Remove foreign material and check control in various regeneration positions.	
1		Internal control leak.	Replace seals and piston assembly.	

9000/9100/9500 METER FLOW DATA

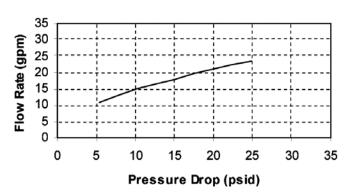
9000 Meter Flow Data

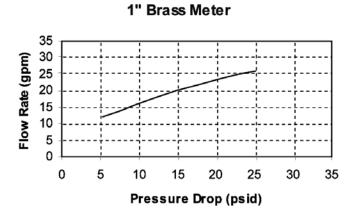




9100 Meter Flow Data

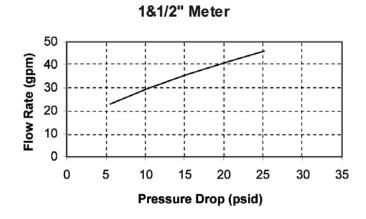


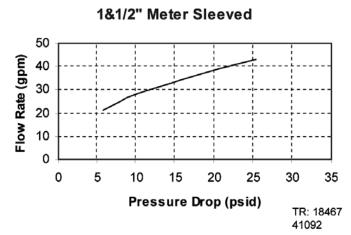




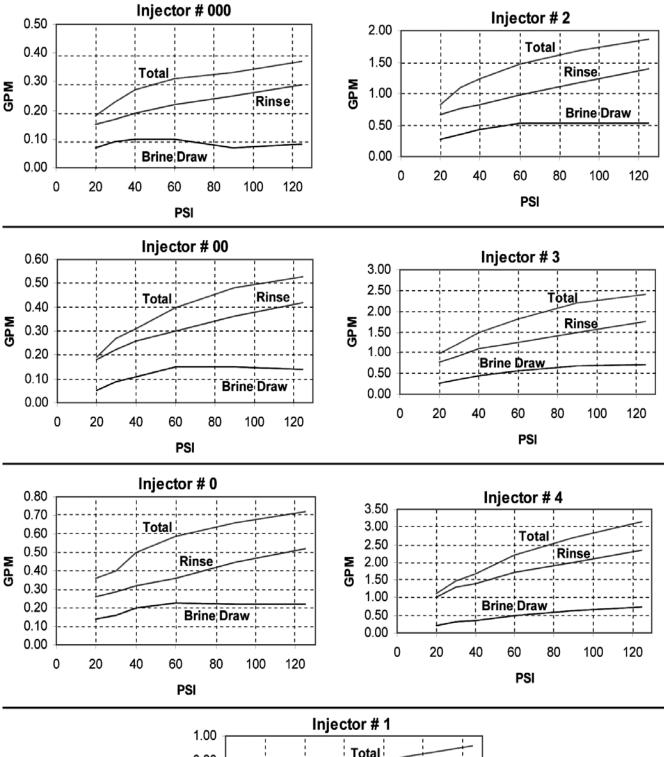
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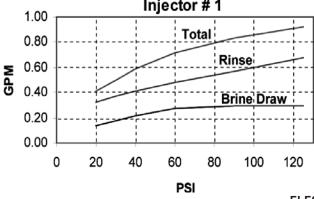
9500 Meter Flow Data





9000/9100/9500 INJECTOR FLOW DATA (1600 SERIES INJECTORS)



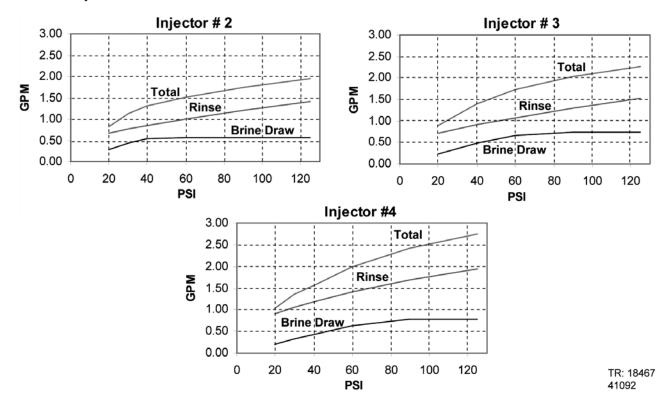


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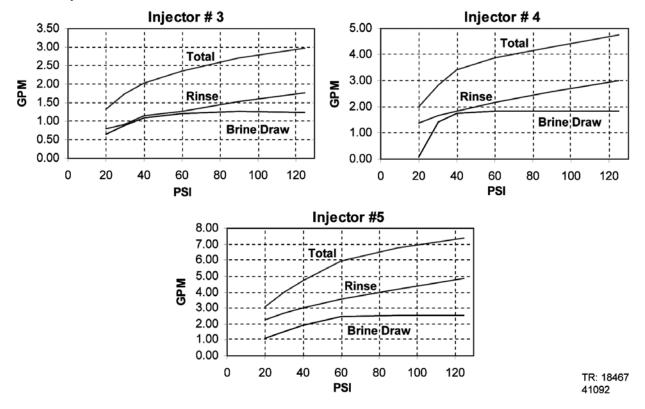
FLECK® 9000/9100/9500 Service Manual • 39

9500 INJECTOR FLOW DATA (1600 &1700 SERIES INJECTORS)

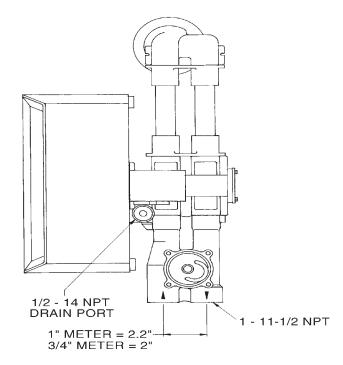
1600 Series Injectors

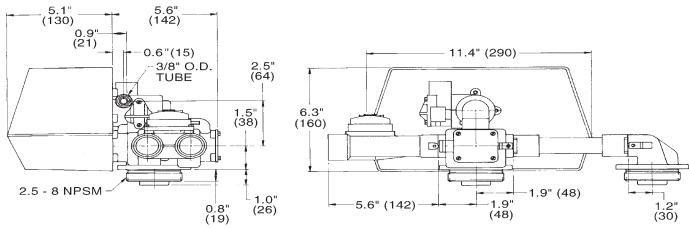


1700 Series Injectors

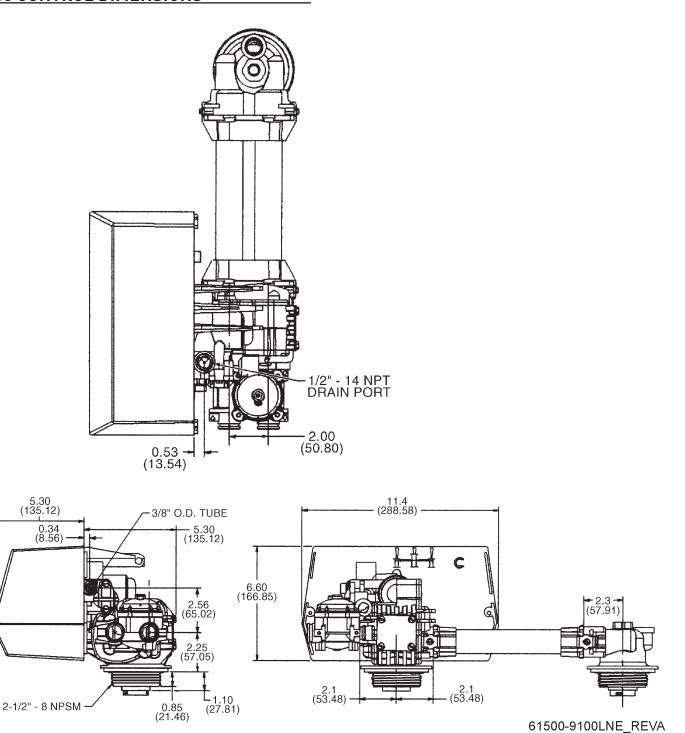


9000 CONTROL DIMENSIONS

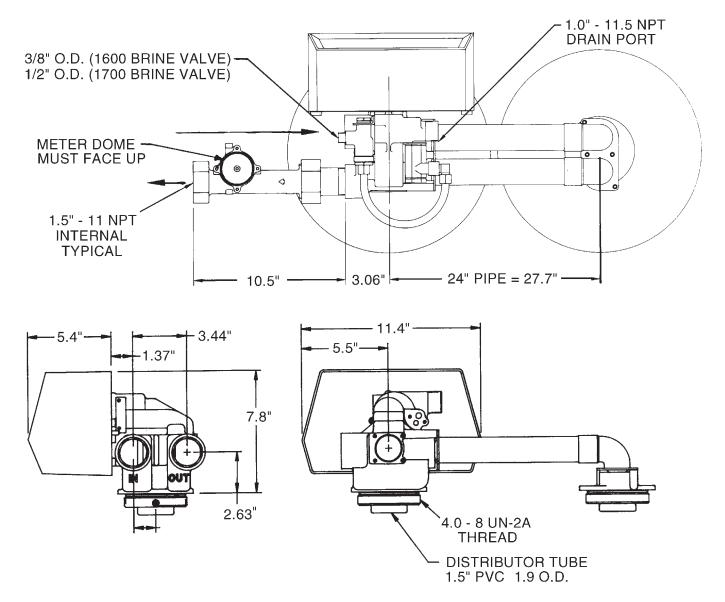




61500-9000LNE REVA



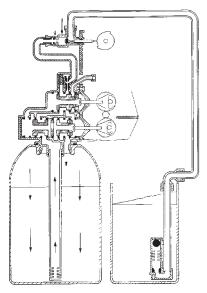
9500 CONTROL DIMENSIONS



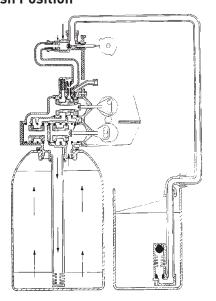
61500-9500LNE_REVA

WATER CONDITIONER FLOW DIAGRAMS

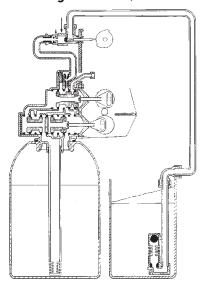
1 In Service Position



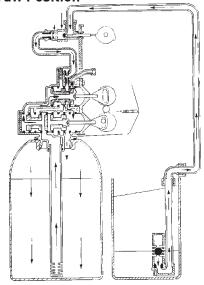
2 Backwash Position



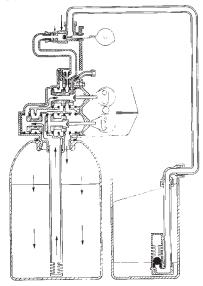
3 Tanks Switching Position (Meter Initiated Regeneration)



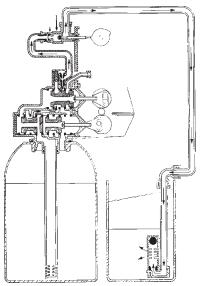
4 Brine Draw Position

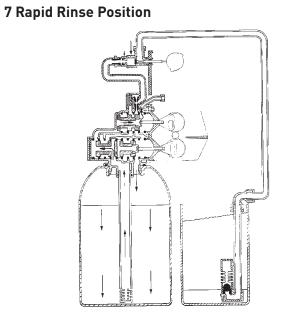


5 Slow Rinse

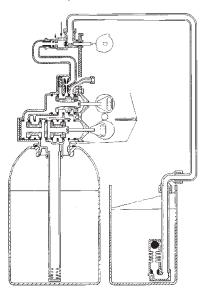


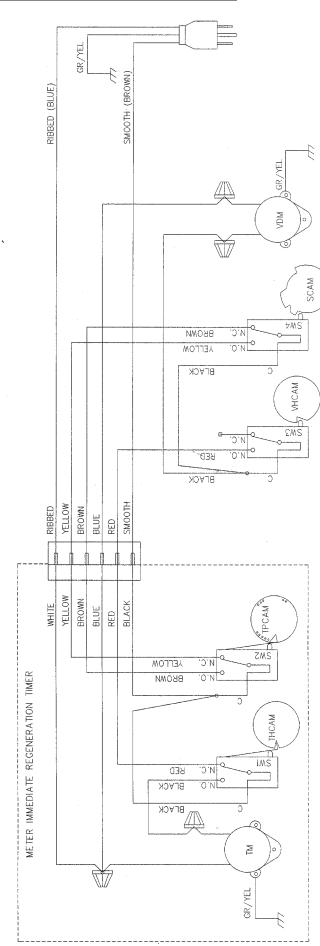
6 Brine Tank Fill Position





8 In Service Position, Tanks Switched





TM - TIMER MOTOR
VDM - VALVE DRIVE MOTOR
SW1 - TIMER HOMING SWITCH
SW2 - TIMER PROGRAM SWITCH
SW3 - VALVE HOMING SWITCH
THCAM - TIMER HOMING CAM
TPCAM - TIMER PROGRAM CAM
HCAM - VALVE STEP CAM

NOTE: 1. TWIN TANK METER IMMEDIATE ALTERN REGENERATION. 2. VALVE SHOWN IN SERVICE POSITION.

SERVICE ASSEMBLIES

SERVICE ASSER	IBLIES	-	
Brine Line Flow Contro	ls (9000/9100):	£0381 <u>-</u> 04	Injector Assy, 1700, #6, Cold & HW 150°
	BLFC, .125 GPM, 5000/5600/9000/9100		Injector Assy, 1700, #0, Cota & TW 130 Injector Assy, 1600, #1, Plastic, Cold
40022-72 F	BLFC, .25 GPM, 5000/5600/9000/9100	00400-01	Water
40022 20	BLFC, .50 GPM, 5000/5600/9000/9100	/0/00 00	
	BLFC, 1.0 GPM, 5000/5600/7000/7100	60480-02	Injector Assy, 1600, #2, Plastic, Cold
			Water
	Brine Valve Assy, 9000/9100		Injector Assy, 1600, #3, Plastic, Cold Water
Brine Line Flow Contro		60480-04	Injector Assy, 1600, #4, Plastic, Cold
60020-25 E			Water
60020-50 E	BLFC, .50 GPM, 1600	60481-21	Injector Assy, 1600, #1, SS, HW 180°
60020-100 E	BLFC, 1.0 GPM, 1600		Injector Assy, 1600, #2, SS, HW 180°
			Injector Assy, 1600, #3, SS, HW 180°
Brine Valve Assemblies	:		Injector Assy, 1600, #4, SS, HW 180°
	Brine Valve, 9500/1600, .25 GPM, Cold	00401-21	Hijector Assy, 1000, #4, 55, 1100 100
	& HW 180°	Meter Assemblies (9	0000/01001.
40037-420 F	Brine Valve, 9500/1600, .50 GPM, Cold		
8	& HW 180°		Adapter, 1-inch Coupling
	Brine Valve, 9500/1600, 1.0 GPM, Cold	60086	Meter Assy, 5600/9000/9100, 3/4-inch
	& HW 180°		Std/Range
		60087	Meter Assy, 5600/9000/9100, 3/4-inch,
	Brine Valve Assy 9000/9100, Cold &		Ext
	HW 180°		Meter Assy, 9000/9100, 1-inch
	Brine Valve Assy, 9000/9100/Twinfl100,	60389NP	Meter Assy, 9000/9100, 1-inch, N/P
(Cold & HW 180°	60389-20	Meter Assy, 9000/9100, 1-inch, BSP/
			Metric
1700 Brine Valve Assen		60390	Meter Assy, 9000/9100, 1-inch, Ext
60039-XX E	Brine Valve, 1700/9500, Cold &		Meter Assy, 9000/9100, 1-inch, Ext, N/P
F	HW 180°		Meter Assy, 9000/9100, 1-inch, Ext/BSP/ Metric
Bypass Assemblies:		40412	Meter Assy, 9000/9100, 1-inch, Std
	Bypass Valve, 5600, 3/4-inch NPT	00012	
	Bypass Valve, 5600, 1-inch NPT	/0/10NID	Range, HW 150°
60049 E		60612NP	Meter Assy, 9000/9100, 1-inch, Std
00047L	bypass Flastic Assy	4.4000	Range, HW 150°, NP
luis stan Assamblias (O	200/0400)	14038	
Injector Assemblies (90			Meter Cap Assy, Ext
	njector Assembly (specify size of	15218	
iı	njector)		Meter Cap Assy, Std, NP
			Meter Cap Assy, Ext
Injector Number D	LFC Number BLFC Number	15237NP	Meter Cap Assy, Ext, NP
Red #0B	lank0 Blank 0	13509	Impeller, Meter
White #1011	.2 1 0.25 1	13509-01	Impeller, Celcon, HW 150°
	.5 2 0.50 2		
	.03	Meter Assemblies (9	? 500):
Green #4 04			Meter, 2850/9500, 1-1/2 inch Std
	.05		Meter, 2850/9500, 1-1/2 inch Std,
	.56		HW 150°
	.07	40410-01NP	Meter, 2850/9500, 1-1/2 inch Std, N/P
			Meter, 2850/7500, 1-1/2 inch Ext
	.08		Meter, 2850/7500, 1-1/2 inch Ext,
/	.09	00010-021100	HW 150°
Injector Assemblies (95	500):	60610-02NP	Meter, 2850/9500, 1-1/2 inch Ext, N/P
•	njector Assy, 1700, #3, Cold &	60610-21	Meter, 2850/9500, 1-1/2 inch Std/BSP
	HW 150°		Metric
	njector Assy, 1700, #4, Cold &	60610-21NP	Meter, 2850/9500, 1-1/2 inch Std/BSP
	HW 150°		Metric, Nickel Plated
	njector Assy, 1700, #5, Cold &		•
	1W 150°		

SERVICE ASSEMBLIES CONTINUED

	Meter, 2850/9500, 1-1/2 inch Ext/BSP	Cocond Tonk Accomb	dies (0000)
00010-22	Metel, 2000/7000, 1-1/2 IIICH EXI/BSP Metric	Second Tank Assemb	
40410 22NID	Meter, 2850/9500, 1-1/2 inch Ext/BSP	14202-01	Screw, Hex Washer Mach, 8-32 x 5/16
00010-ZZINF	Metric/Nickel Plated	10055	18-8 S.S.
/0/11 011 1\\		13255	
0U011-U1HVV	Meter, 2850/9500, 1-inch Sleeve,		Adapter Assy, 1-inch Coupling
/0/11 01	1-1/2 inch Std, HW 150°	14864-01	Adapter, 9000/9100, 2nd Tank, Machd
60611-01	Meter, 2850/9500, 1-inch Sleeve,	1/0// 01ND	w/0-rings
/0/11 01ND	1-1/2 inch Std Meter	14864-UTNP	Adapter, 9000/9100, 2nd Tank, Machd,
60611-01NP	Meter, 2850/9500, 1-inch Sleeve, NP	45000 07	NP
/0/11 00	1-1/2 inch Std Meter Meter, 2850/9500, 1-inch Sleeve,	15823-06	Yoke Assy, 6-inch Tank & 6-inch Tube
60611-02			Yoke Assy, 6-inch Tank, NP 6-inch Tubes
/0/11 00NID	1-1/2 inch Ext Meter	15823-12	Yoke Assy, 6-inch - 12-inch Tank, 8-1/2
60611-02NP	Meter, 2850/9500, 1-inch Sleeve, NP	45000 40ND	inch Tube
4.5500	1-1/2 inch Ext Meter	15823-12NP	Yoke Assy, 6-inch - 12" Tank, NP 8-1/2
1//90	Sleeve, Meter, 1-1/2 inch x 1-inch (NOTE:	45000 47	inch Tubes
	when reducing a 1-1/2 inch meter to a	15823-14	Yoke Assy, 14-inch Tank, 10-1/2 inch
	1-inch meter, the program wheel and	45000 47115	Tube
	timer settings must be changed to a	15823-14NP	Yoke Assy, 14-inch Tank, NP 10-1/2 inch
/1000 10	1-inch meter size)	45000 47	Tube
	Meter Assy, 1-1/2 inch SS NPT Std	15823-16	Yoke Assy, 16-inch Tank, 12-1/2 inch
	Meter Assy, 1-1/2 inch SS NPT Ext	45000 4/ND	Tube
	Meter Assy, 1-1/2 inch SS BSP Std	15823-16NP	Yoke Assy, 16-inch Tank, NP 12-1/2 inch
61933-21	Meter Assy, 1-1/2 inch SS BSP Ext		Tube
Meter Checker Kits:		Second Tank Assemb	dies (0100).
	Meter Checker Kit, Std		Tube Assy, 9100, 6-inch - 12-inch Tanks
	Meter Checket Kit, Ext		Tube Assy, 9100, 0-men - 12-men ranks
00401	Meter offecket Kit, Ext		Adapter Assy, 2nd Tank, 9100
Piston Assemblies:			Kit, 1.05-inch Distributor Adapter
	Piston Assy, 9500, Upper	01417	Mit, 1.03-ilicii Distributor Adapter
	Piston Assy, 9500, Upper, HW 180°	Second Tank Assemb	lies (9500).
	Piston Assy, 9500, Lower		Valve Body, 9500 Machd
	Piston Assy, 9500, Lower HW, 180°		Valve Body, 7500 Machd, NP
	Piston Assy, 9000/9100, Top		Valve Body, 7500 Machd, M Valve Body, 9500 BSP, Mtrc, Machd
	Piston Assy, 9000/9100, HW Upper, 180°		Valve Body, 7500 BSP, Mtrc, Machd
	Piston Assy, 9000/9100, Lower	10/1/ 21111	Nickel Plated
	Piston Assy, 9000/9100 Lower, HW 180°	60715-16	Tube Assy, 9500, 2nd Tank for 14-inch to
		00710 10	16-inch Tanks
Seal & Spacer Kits:		60715-16NP	Tube Assy, 9500, 2nd Tank, NP for
	Seal & Spacer Kit, 5600/9000 Top	00710 10141	14-inch to 16-inch Tanks
	Seal & Spacer Kit, Top, 559 PE Cold and	60715-20	Tube Assy, 9500, 2nd Tank for 20-inch
	Chloramine		Tanks
60125HW	Seal & Spacer Kit, 9000/9100, Upper HW	60715-24	Tube Assy, 9500, 2nd Tank for 20-inch
	180°		and 24-inch Tanks
60133-01	Seal & Spacer Kit, 9500, Lower, Cold &	60715-24NP	Tube Assy, 9500, 2nd Tank, Nickel for
	HW 180°	007.10 2.1111	20-inch -24-inch Tanks
60133-20	Seal & Spacer Kit, 9500, Lower		
	Seal & Spacer Kit, 9500, Upper, Cold &	Single Piece Plastic I	End Cap Assemblies
	HW 180°		Plug Assy, End Cap 9000/9100
60134-20	Seal & Spacer Kit, 9500, Upper		Plug Assy, End Cap 9500
	Seal & Spacer Kit, 9000/9100, Bottom		
	Seal & Spacer Kit, 9000/9100, Bottom	Tools:	
	559PE		Stuffer Tool Assy, 5600/9000
60421HW	Seal & Spacer Kit, 9000/9100, Bottom,		Puller Assy, Port Ring
	HW 180°		Tool, DLFC Retainer
		Valve Body Assembly	
			Valve Body Assy, 9100
		18303	
		18569	Retainer, Tank Seal

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