

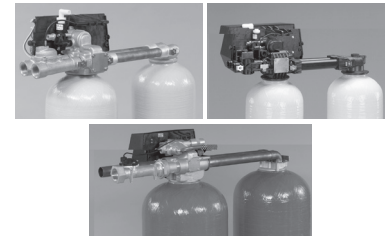


Fleck Model 9000/9100/9500

Service Manual

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JOB SPECIFICATION SHEET

Job Number: _____
Model Number: _____
Water Test: _____
Capacity Per Unit: _____
Mineral Tank Size: _____ Diameter: _____ Height: _____
Brine Tank Size & Salt Setting per Regeneration: _____
9000/9100/9500 Control Valve Specifications:

1. Type of Timer:

- A. 82 minute available regeneration time, 1/15 RPM
- B. 164 minute available regeneration time, 1/30 RPM

2. Meter Size:

- A. 3/4" Std Range (125 - 2,100 gallon setting)
- B. 3/4" Ext Range (625 - 10,625 gallon setting)
- C. 1" Std Range (310 - 5,270 gallon setting)
- D. 1" Ext Range (1,150 - 26,350 gallon setting)
- E. 1-1/2" Std Range (625 - 10,625 gallon setting)
- F. 1-1/2" Ext Range (3,125 - 53,125 gallon setting)

3. Timer Gallon Setting: _____ Gallons

4. Regeneration Program Setting:

- A. Backwash: _____ Minutes
- B. Brine and Slow Rinse: _____ Minutes
- C. Rapid Rinse: _____ Minutes
- D. Brine Tank Refill: _____ Minutes

5. Drain Line Flow Control: _____ gpm

6. _____ gpm

7. Injector Size: _____

EQUIPMENT CONFIGURATION

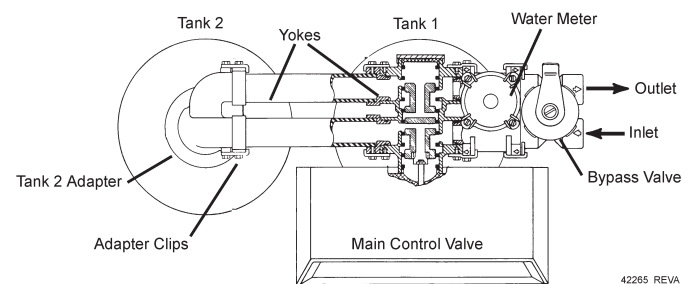


Figure 1 9000/9100 Equipment Configuration

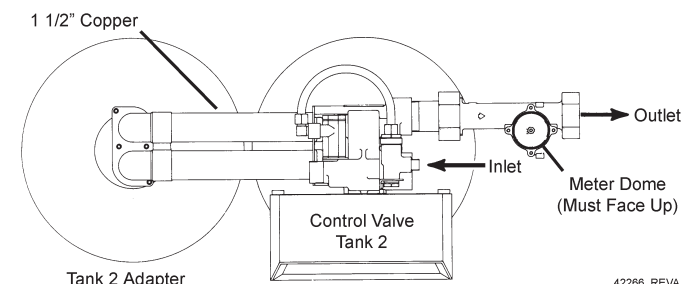


Figure 2 9500 Equipment Configuration

INSTALLATION & START-UP

Water Pressure

A minimum of 25 pounds 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.

BY-PASS VALVES

Always provide for the installation of a by-pass 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.

1. Place the softener tank where you want to install the unit.
2. During cold weather it is recommended that the installer warm the valve to room temperature before operating.
3. Perform all plumbing according to local plumbing codes.
 - Use a 1/2" minimum pipe size for the drain.
 - Use a 3/4" drain line for backwash flow rates that exceed 7 gpm or length that exceeds 20' (6 m).
4. Both tanks must be the same height and diameter and filled with equal amounts of media.
5. The distributor tube must be flush with the top of each tank. Cut if necessary. Use only non-aerosol silicone lubricant.
6. 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

assembly.
7. Solder joints near the drain must be done before connecting the Drain Line Flow Control fitting (DLFC). Leave at least 6" (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.
8. Use only Teflon tape on the drain fitting.
9. Be sure the floor under the salt storage tank is clean and level.
10. Place approximately 1" (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.
11. On units with a bypass, place in Bypass position.
12. Turn on the main water supply.
13. Open a cold soft water tap nearby and let water run a few minutes or until the system is free of foreign material

18. 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.

19. With all the air backwashed, slowly cycle the timer to the brine position; rapid rinse; and brine tank re fill. Wait for the control drive motor to position itself in each cycle and stop, before advancing on to the next position.

20. 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

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

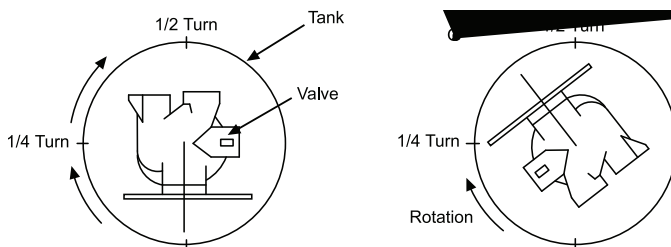
NOTE: All Fleck® valves are right-hand threads, or clockwise, to install

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 ¼ turn and ½ turn (see Figure 6).

NOTE: If lubricant is required, a silicone compound is strongly recommended. Dow Corning® Silicone Compound (available from Fleck®), is recommended for best possible results. Dow Corning® 7 Release Compound is used in the manufacture of Fleck® 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



INSTALLATION & START-UP

Programming

1. 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 gpm = 10 gallon fill

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.

3. 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:

$(\text{capacity per ft}^3 \times \text{ft}^3 \text{ of resin per tank}) = \text{gallons available compensated hardness of H}_2\text{O}$

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"
Compensated Hardness	=	35 grains per gallon (tested sample)
ft ³ Resin (based on flow rate)	=	4
Lbs of Salt	=	8
Capacity per ft ³	=	24,000
$(\frac{24,000 \times 4 \text{ ft}^3 \text{ of resin per tank}}{35 \text{ grains}})$	=	2,740 gallons available before regeneration

Complete step 4 before setting gallons on the meter wheel.

4. 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" 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.

Backwash 10 min x 7.0 gpm = 70.0 gal

Brine and Rinse 60 min x 1.0 gpm = 60.0 gal

Rapid Rinse 10 min x 7.0 gpm = 70.0 gal

Brine Tank Fill 10 min x 1.0 gpm = 10.0 gal

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

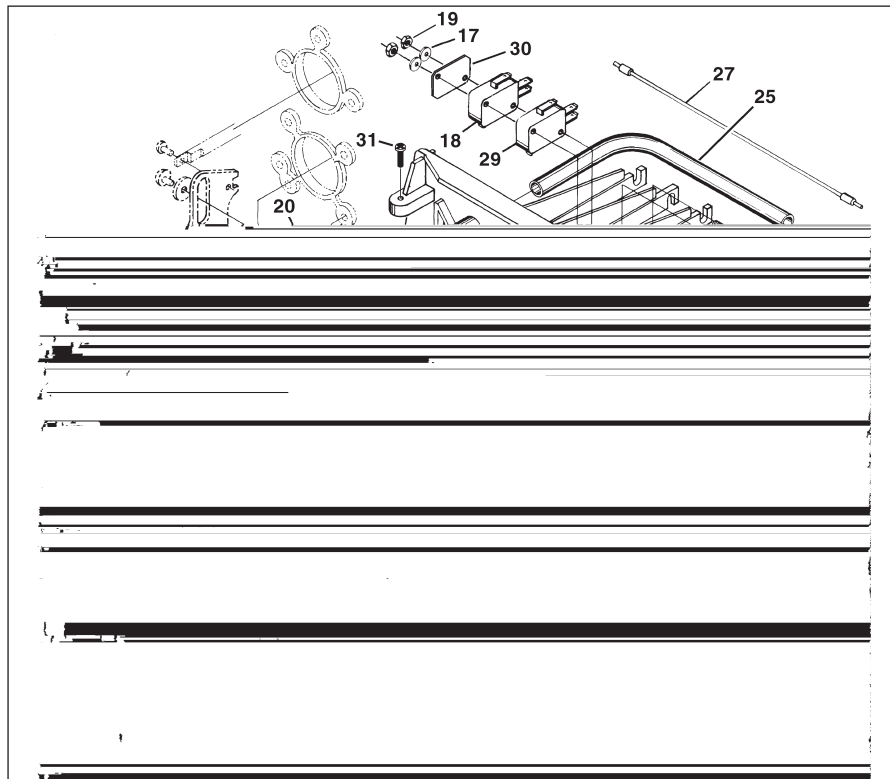
18 minutes from water available.

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

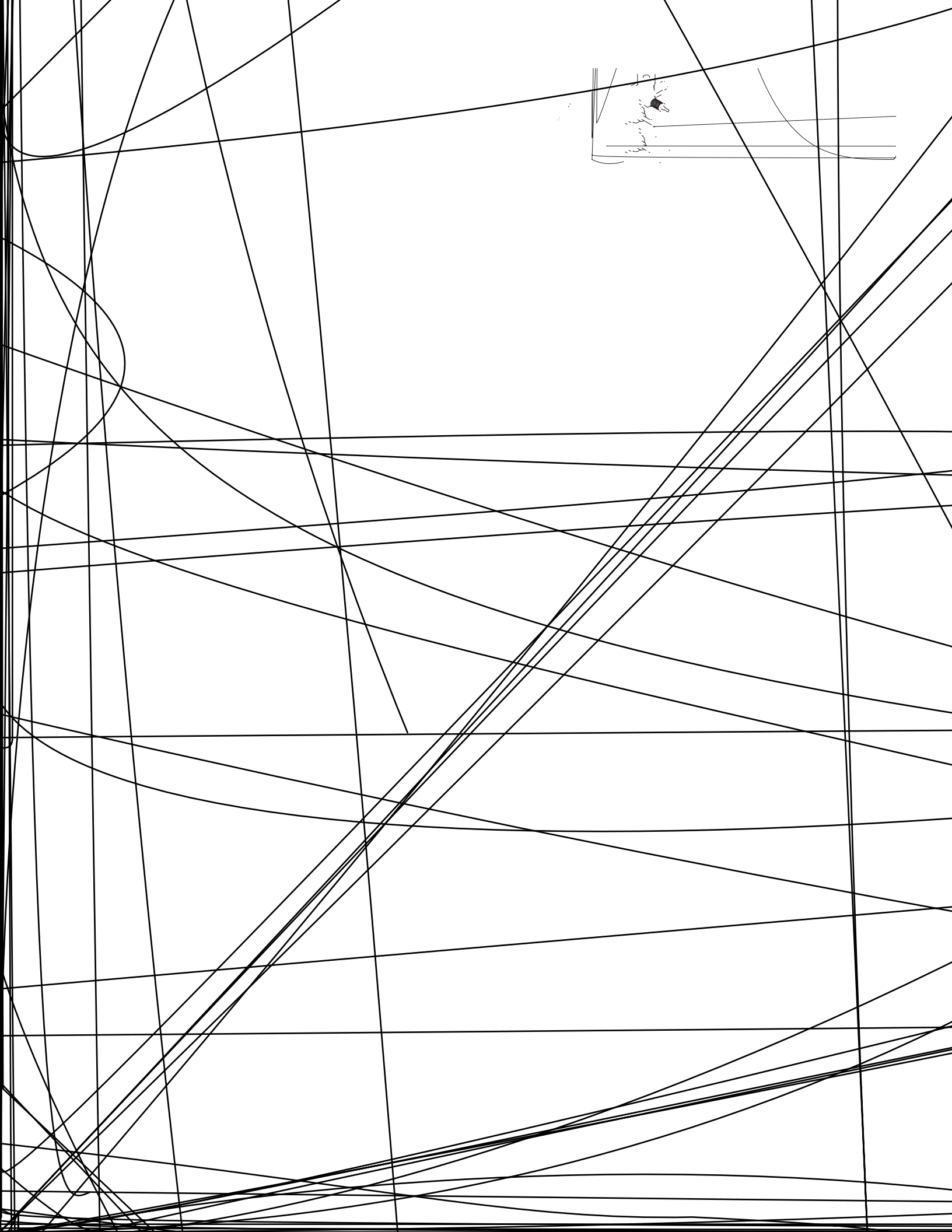
9000/9100/9500, 3/4" EXT, 1.5" STD
0-40m3..... Volume Label, Metric, 9500, 1.5" EXT,
1.5" EXT 0-200m3
1.5" EXT 0-200m3, 1"
STD, 0-20m3

1.5" EXT 0-200m3
STD, 0-1200m3
3/4" STD, 0-8m3
1.5" EXT 0-200m3
1.5" EXT 0-200m3
3/4" STD, 0-8m3

POWER HEAD ASSEMBLY



Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1		2.....18728	Nut, Tinnerman, U Type, 8-32	16		2.....15172	Screw, Flt Hd Mach, 4-40 x 1 3/8 Steel Zinc Plate
2		1.....11838	Power Cord, 6' Fleck	17		2.....10340	Washer, Lock #4, Zinc
		11839	Power Cord, 12' Fleck	18		2.....16433	Switch, Miniature
		40084-12	Power Cord, 12' U.S., Round, 120V Sys 5, 6, 7 & 2900/3150/3900 #4	19		1.....10339	Nut, Hex, 4-40 Zinc Plated
		19885-01	Power Cord Assy, Japanese	20		1.....15331	Screw, Hex Washer Mach, 10-24 x 3/4 410 S.S.
		11545-01	Power Cord Assy, 4' Black, Euro w/Terminals	21		1.....15133	Gear Assy, Drive, 3/4" Stroke
		14678	Power Cord, U.S., 220/60	22		1.....13547	Strain Relief, Flat Cord Heyco #30-1
		19303-01	Power Cord Assy, Australian w/Terminals			1.....13547-01	Strain Relief, Round Cord
		40085-12	Power Cord, 12' US, Round, 240V	23		1.....15810	Ring, Retaining
		19674	Transformer, 24V, 9.6VA Residential Valves	24		1.....17331	Cam, 9000, 9100, 9500
		41475	Transformer, 24V, 9.6VA, European			17765	Cam Assy, Aux Switch, 9000, 9100, 9500
3		1.....15202	Harness, 9000/9500, Drive	25		1.....15368	Tube, Cable Guide, 2-Tank, 9000/9100
		14822	Harness, 2900			17337	Tube, Cable Guide, 9500
4		1.....15134	Gear Assy, Drive, 1/2" Stroke 9000/9500	26		2.....15372	Washer, Thrust, 3/8
5		1.....15135	Gear, Drive, 9000	27		1.....15425	Meter Cable Assy, 13.25" 9000/9100 3/4" STD & EXT
6		1.....14896	Wheel, Geneva			15216	Meter Cable Assy, 15.25" 9000/9100 1" STD & EXT
7		2.....40422	Nut, Wire, Tan			17744	Meter Cable Assy, 20.75" 9500 1.5" STD & EXT
8		2.....19367	Screw, Designer Cover, Thumb 8-32 Blank UV Stable Material	28		2.....15692	Washer, Plain, 3/8"
9		1.....15175	Label, Shaft Position	30		1.....10302	Insulator, Limit Switch
10		2.....14917	Ring, Retaining	31		2.....15173	Screw, Slot Rd Hd Mach, 5-20 x 3/8
11		1.....42296	Plate, Ground, 9000/9500	32		*	Complete 9000/9100/9500 Powerhead Assy
12		1.....14430	Screw, Hex Washer St, 6 x 1/4 Type "B"	Not Shown			
13		2.....19160	Screw, Phil Pan, Thread 6-32 x 3/8 Type 23 Zinc			1.....60232-110	Cover, Designer, 1 Pc Black
14		1.....18737	Motor, 24V, 50/60 Hz, 1 RPM			1.....60232-112	Cover, Designer, 1 Pc Black w/Left Window, Electric
		18738	Motor, 120V, 50/60 Hz 1 RPM			1.....60320-10	Switch Assy, Drive Cam, 9000, 9100, 9500
		18739	Motor, 220V, 50/60 Hz 1 RPM	*Call your distributor for Part Number			
15		1.....15131	Backplate, 9000, Mechanical, SXT				
		17784-05	Panel, Control, 9000/9500 XT				
		17784-02	Panel, Control, 9000, 9500 w/ Terminal Block				



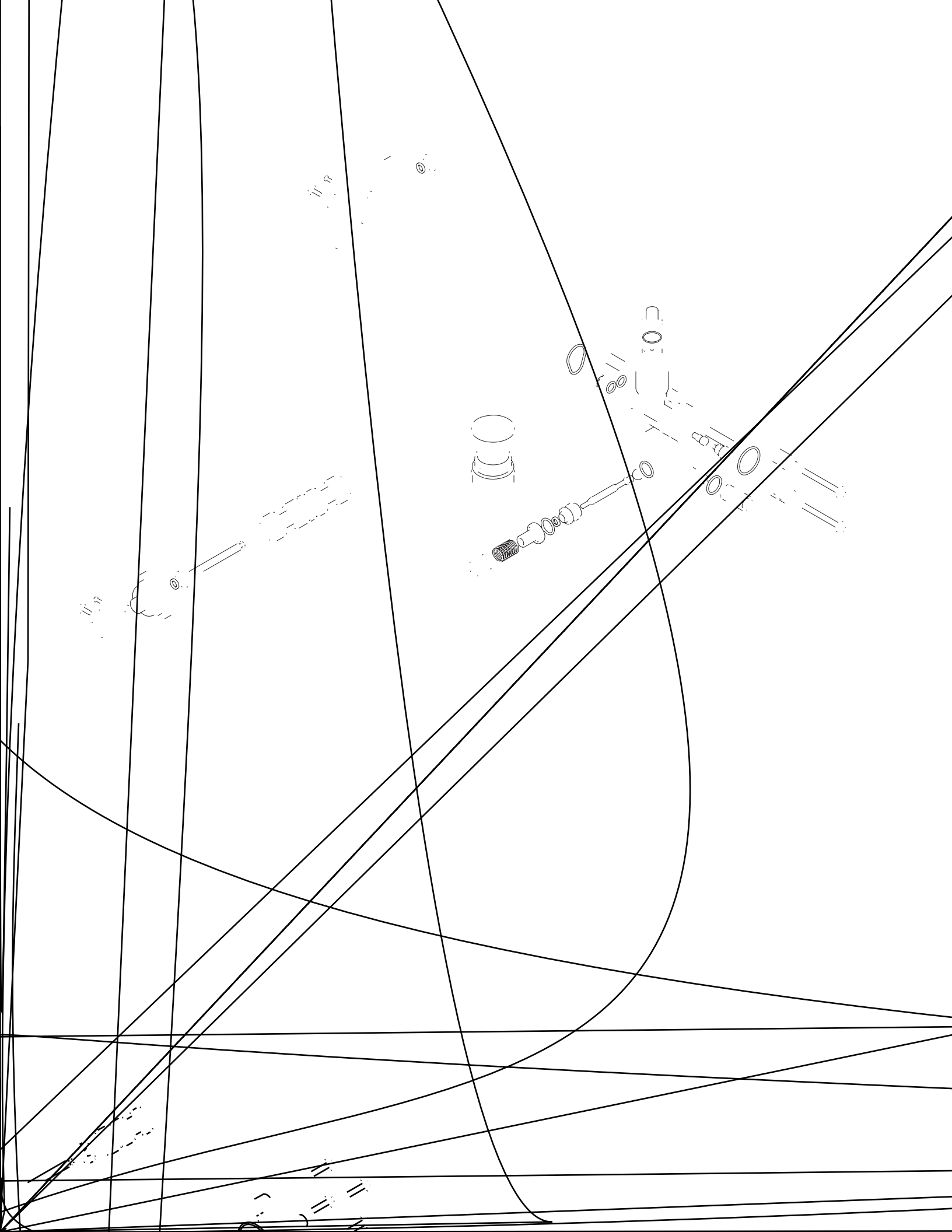
9000 CONTROL VALVE ASSEMBLY

Item No.	QTY	Part No.	Description
1.....	1	14861.....	Valve Body, 9000
2.....	15	13242.....	Seal, 5600,9000, 9100
3.....	12	14241.....	Spacer, 5600,9000, 9100
4.....	1	16595.....	Spacer, 9000, 9100
5.....	1	42278.....	End Cap, Plastic, 9000/9100
6.....	2	13363.....	Washer, Hague Drive
7.....	2	17020.....	Screw, STL. Hex Washer, 6-20 x 3/8
8.....	2	11335.....	Screw, #4-40
9.....	1	14921.....	Link, Piston Rod
10.....	1	14919.....	Piston, Rod, Upper
11.....	2	14309.....	Retainer, Piston Rod
12.....	1	14914.....	Piston, 9000, 9100 Upper
13.....	2	13243.....	Plug, End, 5600, 9000, 9100
14.....	2	10209.....	Quad Ring, -010
15.....	2	13008.....	Retainer, End Plug Seal
16.....	1	15019.....	Link, Piston Rod, 9000/9500, 9100
17.....	1	14920.....	Rod, Piston, Lower, 9000, 9100
18.....	1	14905.....	Piston, 9000, 9100 Lower
19.....	1	40952.....	O-ring, -030
20.....	4	15331.....	Screw, Hex Washer Head
21.....	2	13361.....	Spacer, 4600, 9000, 9100
22.....	1	15215.....	Body, Injector, 9000, 9100
23.....	2	13301.....	O-ring, -011
24.....	3	13302.....	O-ring, -014
25.....	1	10227.....	Screen, Injector
26.....	1	10913-000.....	Nozzle, Injector, #000, Brown
		 10913-00.....	Nozzle, Injector, #00, Violet
		 10913-0.....	Nozzle, Injector, #0, Red
		 10913-1.....	Nozzle, Injector, #1, White
		 10913-2.....	Nozzle, Injector, #2, Blue
		 10913-3.....	Nozzle, Injector, #3, Yellow
		 10913-4.....	Nozzle, Injector, #4, Green
27.....	1	10914-000.....	Throat, Injector, #000, Brown
		 10914-00.....	Throat, Injector, #00, Violet
		 10914-0.....	Throat, Injector, #0, Red
		 10914-1.....	Throat, Injector, #1, White
		 10914-2.....	Throat, Injector, #2, Blue
		 10914-3.....	Throat, Injector, #3, Yellow
		 10914-4.....	Throat, Injector, #4, Green
28.....	1	13166.....	Cap, Injector, 5600, 9000, 9100
29.....	1	13303.....	O-ring, -021
30.....	2	13387.....	Screw, Hex Washer Head
31.....	1	15348.....	O-ring, -563
32.....	1	13173-01.....	Retainer, DLFC Button
33.....	1	19153.....	Washer, Flow, 0.6 GPM
		 19152.....	Washer, Flow, 0.8 GPM
		 12097.....	Washer, Flow, 1.0 GPM
		 12085.....	Washer, Flow, 1.2 GPM
		 19150.....	Washer, Flow, 1.3 GPM
		 12086.....	Washer, Flow, 1.5 GPM

Item No.	QTY	Part No.	Description
		 19149.....	Washer, Flow, 1.7 GPM
		 12087.....	Washer, Flow, 2.0 GPM
		 12088.....	Washer, Flow, 2.4 GPM
		 12089.....	Washer, Flow, 3.0 GPM
		 12090.....	Washer, Flow, 3.5 GPM
		 12091.....	Washer, Flow, 4.0 GPM
		 19147.....	Washer, Flow, 4.5 GPM
		 12092.....	Washer, Flow, 5.0 GPM
		 17814.....	Washer, Flow, 6.0 GPM
		 12408.....	Washer, Flow, 7.0 GPM
34.....	1	14925.....	Brine Valve Stem, 9000, 9100
35.....	1	12626.....	Seat, Brine Valve
36.....	1	13167.....	Spacer, Brine Valve
37.....	1	13165.....	Cap, Brine Valve
38.....	1	11973.....	Spring, Brine Valve
39.....	1	11981-01.....	Ring, Retaining, SS
40.....	1	16098.....	Washer, Nylon Brine
41.....	1	12977.....	O-ring, -015
42.....	1	13245.....	Retainer, BLFC
43.....	1	17307.....	Washer, Flow, 0.125 GPM
		 12094.....	Washer, Flow, 0.25 GPM
		 12095.....	Washer, Flow, 0.50 GPM
		 12097.....	Washer, Flow, 1.0 GPM
44.....	1	12550.....	Quad Ring, -009
45.....	1	13244-01.....	Adapter, BLFC
46.....	1	13497.....	Air Disperser, Injector
47.....	1	11710.....	O-ring, -215
48.....	1	12281.....	O-ring, -338
50.....		60400.....	Piston Assy, 9000, 9100 Upper
		 60400-01.....	Piston Assy, 9000 Upper, HW
		 60400-001.....	Piston Assy, 9000, 9100 Upper, 560CD
51.....		60401.....	Piston Assy, 9000, 9100 Lower
		 60401-01.....	Piston Assy, 9000 Lower, HW
		 60401-001.....	Piston Assy, 9000, 9100 Lower, 560CD
52.....		60125.....	Seal & Spacer Kit, 5600/9000/9100 Upper
		 60125-15.....	Seal & Spacer Kit, 5600/9000/9100 Upper Blue
		 60125HW.....	Seal & Spacer Kit, 9000 Upper
53.....		60421.....	Seal & Spacer Kit, 9000/9100 Lower
		 60421HW.....	Seal & Spacer Kit, 9000 Lower
		 60421-50.....	Seal & Spacer Kit, 9000/9100 Lower, 559PE
54.....		60350.....	Brine Valve Assy, 9000, 9100
		 60350-01.....	Brine Valve Assy, 9000, 560CD, Hot Water
55.....		60385-0011.....	Injector Drain, 9000, 9100, 0.25 BLFC #0 INJ, 1.2 DLFC
		 60385-0111.....	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 1.2 DLFC

9000 CONTROL VALVE ASSEMBLY

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
		 60385-0121.....	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 1.5 DLFC			 60385-0383.....	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 5.0 DLFC
		 60385-0131.....	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 2.0 DLFC			 60385-0393.....	Injector Drain, 9000, 9100, 1.0 BLFC #3 INJ, 7.0 DLFC
		 60385-0141.....	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 2.4 DLFC			 60385-0120.....	Injector Drain, 9000, 9100, Blank BLFC #1 INJ, 1.5 DLFC
		 60385-0012.....	Injector Drain, 9000, 9100, 0.50 BLFC #0 INJ, 1.2 DLFC	56.....		60022-12.....	BLFC, 0.125 GPM, 5000/5600/9000/9100
		 60385-0112.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 1.2 DLFC			 60022-25.....	BLFC, 0.25 GPM, 5000/5600/9000/9100
		 60385-0122.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 1.5 DLFC			 60022-50.....	BLFC, 0.50 GPM, 5000/5600/9000/9100
		 60385-0132.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 2.0 DLFC			 60022-100.....	BLFC, 1.0 GPM, 5000/5600/9000/9100
		 60385-0142.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 2.4 DLFC	Not Shown			
		 60385-0182.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 5.0 DLFC	1	12128.....		Label, 0.25 GPM BLFC
		 60385-0222.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 1.5 DLFC	1	13333.....		Label, Injector
		 60385-0242.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 2.4 DLFC	1	10760.....		Label, 1 GPM, 3 lbs salt/min
		 60385-0252.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 3.0 DLFC		 10759.....		Label, 0.5 GPM, 1.5 lbs salt
		 60385-0262.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 3.5 DLFC		 19654.....		Label, 0.125 GPM Brine Refill Flow
		 60385-0272.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 4.0 DLFC				
		 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				
		 60385-0372.....	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 4.0 DLFC				
		 60385-0382.....	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 5.0 DLFC				
		 60385-0482.....	Injector Drain, 9000, 9100, 0.50 BLFC #4 INJ, 5.0 DLFC				
		 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				



9100 CONTROL VALVE ASSEMBLY

Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1.....	1	40688.....	Valve Body Assy, 9100		12088.....	Washer, Flow, 2.4 GPM	
2.....	15	13242.....	Seal, 5600,9000, 9100		12089.....	Washer, Flow, 3.0 GPM	
3.....	12	14241.....	Spacer, 5600,9000, 9100		12090.....	Washer, Flow, 3.5 GPM	
4.....	1	16595.....	Spacer, 9000, 9100		12091.....	Washer, Flow, 4.0 GPM	
5.....	1	42278.....	End Cap, Plastic, 9000/9100		19147.....	Washer, Flow, 4.5 GPM	
6.....	1	40952.....	O-ring, -030		12092.....	Washer, Flow, 5.0 GPM	
7.....	4	15331.....	Screw, Hex Washer Head		17814.....	Washer, Flow, 6.0 GPM	
8.....	1	14914.....	Piston, 9000, 9100 Upper		12408.....	Washer, Flow, 7.0 GPM	
9.....	2	14309.....	Retainer, Piston Rod	33.....	1	14925.....	Brine Valve Stem, 9000, 9100
10.....	1	14919.....	Piston, Rod, Upper	34.....	1	12626.....	Seat, Brine Valve
11.....	2	13243.....	Plug, End, 5600, 9000, 9100	35.....	1	13167.....	Spacer, Brine Valve
12.....	2	13008.....	Retainer, End Plug Seal	36.....	1	13165.....	Cap, Brine Valve
13.....	2	10209.....	Quad Ring, -010	37.....	1	11973.....	Spring, Brine Valve
14.....	1	14921.....	Link, Piston Rod	38.....	1	11981-01.....	Ring, Retaining, SS
15.....	2	11335.....	Screw, #4-40	39.....	1	16098.....	Washer, Nylon Brine
16.....	2	17020.....	Screw, STL. Hex Washer, 6-20 x 3/8	40.....	1	12977.....	O-ring, -015
17.....	2	13363.....	Washer, Hague Drive	41.....	1	13245.....	Retainer, BLFC
18.....	1	14905.....	Piston, 9000, 9100 Lower	42.....	1	17307.....	Washer, Flow, 0.125 GPM
19.....	1	14920.....	Rod, Piston, Lower, 9000, 9100		12094.....	Washer, Flow, 0.25 GPM	
20.....	1	15019.....	Link, Piston, Rod, 9000/9500		12095.....	Washer, Flow, 0.50 GPM	
21.....	1	41500.....	O-ring, 9100 Drain		12097.....	Washer, Flow, 1.0 GPM	
22.....	1	15215.....	Body, Injector, 9000, 9100	43.....	1	12550.....	Quad Ring, -009
23.....	2	13301.....	O-ring, -011	44.....	2	13302.....	O-ring, -014
24.....	1	10227.....	Screen, Injector	45.....	1	13244-01.....	Adapter, BLFC
25.....	1	10913-000.....	Nozzle, Injector, #000, Brown	46.....	1	13497.....	Air Dispereser, Injector
		 10913-00.....	Nozzle, Injector, #00, Violet	47.....	1	13361.....	Spacer, 4600, 9100
		 10913-0.....	Nozzle, Injector, #0, Red	48.....	1	40538.....	Retainer, 32 mm, O-ring DIST, 7000
		 10913-1.....	Nozzle, Injector, #1, White	49.....	1	61419.....	Kit, 1.05" Distributor Adapter
		 10913-2.....	Nozzle, Injector, #2, Blue	50.....		60400.....	Piston Assy, 9000, 9100 Upper
		 10913-3.....	Nozzle, Injector, #3, Yellow			60400-001.....	Piston Assy, 9000, 9100 Upper, 560CD
		 10913-4.....	Nozzle, Injector, #4, Green	51.....		60401.....	Piston Assy, 9000, 9100 Lower
26.....	1	10914-000.....	Throat, Injector, #000, Brown			60401-01.....	Piston Assy, 9000 Lower, HW
		 10914-00.....	Throat, Injector, #00, Violet			60401-001.....	Piston Assy, 9000, 9100 Lower, 560CD
		 10914-0.....	Throat, Injector, #0, Red	52.....		60125.....	Seal & Spacer Kit, 5600/9000/9100 Upper
		 10914-1.....	Throat, Injector, #1, White			60125-15.....	Seal & Spacer Kit, 5600/9000/9100 Upper Blue Silicone
		 10914-2.....	Throat, Injector, #2, Blue	53.....		60421.....	Seal & Spacer Kit, 9000/9100 Lower
		 10914-3.....	Throat, Injector, #3, Yellow			60421-50.....	Seal & Spacer Kit, 9000/9100 Lower, 559PE
		 10914-4.....	Throat, Injector, #4, Green	54.....		60350.....	Brine Valve Assy, 9000, 9100
27.....	1	13166.....	Cap, Injector, 5600, 9000, 9100	55.....		60385-0011.....	Injector Drain, 9000, 9100, 0.25 BLFC #0 INJ, 1.2 DLFC
28.....	1	13303.....	O-ring, -021			60385-0111.....	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 1.2 DLFC
29.....	2	13387.....	Screw, Hex Washer Head			60385-0121.....	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 1.5 DLFC
30.....	1	15348.....	O-ring, -563			60385-0131.....	Injector Drain, 9000, 9100, 0.25 BLFC #1 INJ, 2.0 DLFC
31.....	1	13173-01.....	Retainer, DLFC Button			60385-0141.....	Injector Drain, 9000, 9100, 0.25
32.....	1	19153.....	Washer, Flow, 0.6 GPM				
		 19152.....	Washer, Flow, 0.8 GPM				
		 12097.....	Washer, Flow, 1.0 GPM				
		 12085.....	Washer, Flow, 1.2 GPM				
		 19150.....	Washer, Flow, 1.3 GPM				
		 12086.....	Washer, Flow, 1.5 GPM				
		 19149.....	Washer, Flow, 1.7 GPM				
		 12087.....	Washer, Flow, 2.0 GPM				

9100 CONTROL VALVE ASSEMBLY

	BLFC #1 INJ, 2.4 DLFC
..... 60385-0012.....	Injector Drain, 9000, 9100, 0.50 BLFC #0 INJ, 1.2 DLFC
..... 60385-0112.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 1.2 DLFC
..... 60385-0122.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 1.5 DLFC
..... 60385-0132.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 2.0 DLFC
..... 60385-0142.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 2.4 DLFC
..... 60385-0182.....	Injector Drain, 9000, 9100, 0.50 BLFC #1 INJ, 5.0 DLFC
..... 60385-0222.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 1.5 DLFC
..... 60385-0242.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 2.4 DLFC
..... 60385-0252.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 3.0 DLFC
..... 60385-0262.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 3.5 DLFC
..... 60385-0272.....	Injector Drain, 9000, 9100, 0.50 BLFC #2 INJ, 4.0 DLFC
..... 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
..... 60385-0372.....	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 4.0 DLFC
..... 60385-0382.....	Injector Drain, 9000, 9100, 0.50 BLFC #3 INJ, 5.0 DLFC
..... 60385-0482.....	Injector Drain, 9000, 9100, 0.50 BLFC #4 INJ, 5.0 DLFC
..... 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

Item No.	QTY	Part No.	Description
			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
		 60022-50.....	BLFC, 0.50 GPM, 5000/5600/9000/9100
		 60022-100.....	BLFC, 1.0 GPM, 5000/5600/9000/9100
Not Shown			
	1	13333.....	

9100 CONTROL VALVE ASSEMBLY

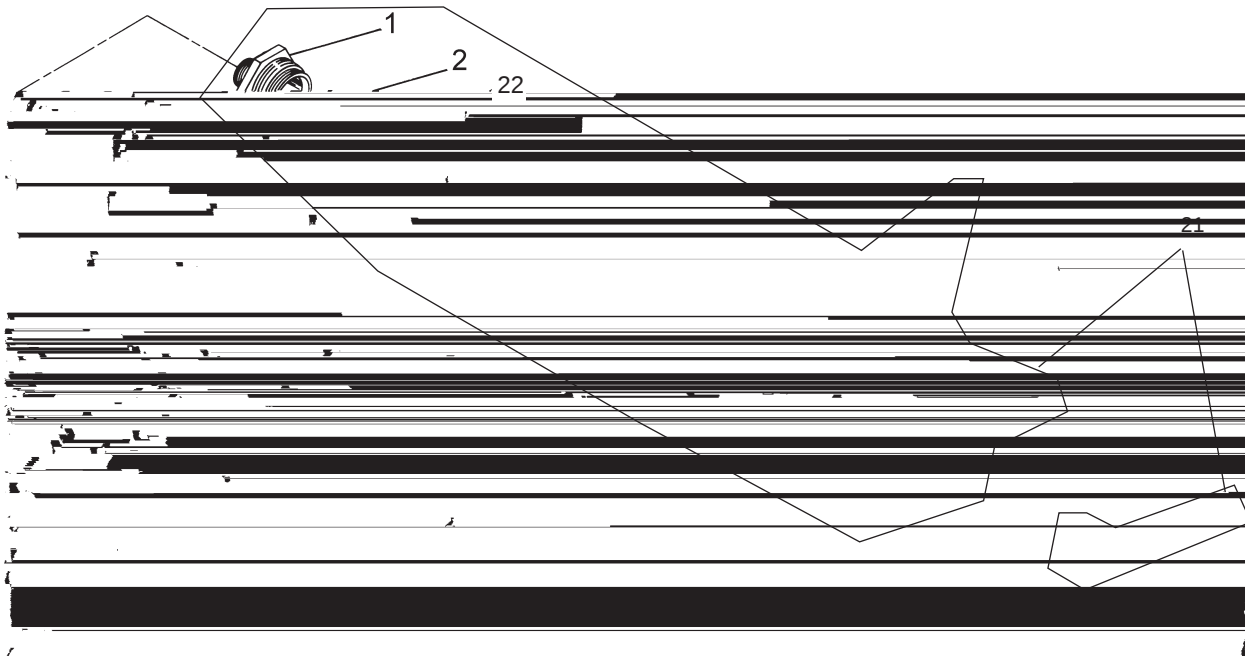
Item No.	QTY	Part No.	Description
42.....		60108.....	Piston Assy, 9500, Upper
		 60108-01.....	Piston Assy, 9500, Upper, HW
		 60108-02.....	Piston Assy, 9500, Upper, 560CD
43.....		60109.....	Piston Assy, 9500, Lower
		 60109-01.....	Piston Assy, 9500, HW, Lower
		 60109-02.....	Piston Assy, 9500, Lower, 560CD
44.....		60134.....	Seal & Spacer Kit, 9500, Upper, Hot & Cold
		 60134-20.....	Seal & Spacer Kit, 9500, Upper, Plastic Spacers
		 60134-30.....	Seal & Spacer Kit, 9500, Upper, Plastic Spacers, Chemical Resistent Seals
45.....		60133-01.....	Seal & Spacer Kit, 9500, Lower, Hot & Cold
		 60133-20.....	Seal & Spacer Kit, 9500, Lower, Plastic Spacers
		 60133-30.....	Seal & Spacer Kit, 9500, Upper, Plastic Spacers, Chemical Resistent Seals
46.....		60381-03.....	Injector Assy, 1700, #3C
		 60381-04.....	Injector Assy, 1700, #4C
		 60381-05.....	Injector Assy, 1700, #5C
		 60381-06.....	Injector Assy, 1700, #6C
47.....		60480-00.....	Injector Assy, 1600, #0, Plastic
		 60480-01.....	Injector Assy, 1600, #1, Plastic
		 60480-02.....	Injector Assy, 1600, #2, Plastic
		 60480-03.....	Injector Assy, 1600, #3, Plastic
		 60480-04.....	Injector Assy, 1600, #4, Plastic
		 60481-21.....	Injector Assy, 1600, #1, S.S. Brass, HW
		 60481-22.....	Injector Assy, 1600, #2, S.S. Brass, HW
		 60481-23.....	Injector Assy, 1600, #3, S.S. Brass, HW
		 60080-11.....	Injector Assy, 1600, #1, PVC
		 60080-12.....	Injector Assy, 1600, #2, PVC
		 60080-14.....	Injector Assy, 1600, #4, PVC
Not Shown			
		 60366-00.....	DLFC, 1"F x 3/4"F, NPT, No Button
		 60366-06.....	DLFC, 1"F x 3/4"F, NPT, 0.6 GPM
		 60366-08.....	DLFC, 1"F x 3/4"F, NPT, 0.8 GPM
		 60366-10.....	DLFC, 1"F x 3/4"F, NPT, 1.0 GPM
		 60366-12.....	DLFC, 1"F x 3/4"F, NPT, 1.2 GPM
		 60366-13.....	DLFC, 1"F x 3/4"F, NPT, 1.3 GPM
		 60366-15.....	DLFC, 1"F x 3/4"F, NPT, 1.5 GPM
		 60366-17.....	DLFC, 1"F x 3/4"F, NPT, 1.7 GPM
		 60366-20.....	DLFC, 1"F x 3/4"F, NPT, 2.0 GPM
		 60366-24.....	DLFC, 1"F x 3/4"F, NPT, 2.4 GPM
		 60366-30.....	DLFC, 1"F x 3/4"F, NPT, 3.0 GPM
		 60366-35.....	DLFC, 1"F x 3/4"F, NPT, 3.5 GPM
		 60366-40.....	DLFC, 1"F x 3/4"F, NPT, 4.0 GPM
		 60366-45.....	DLFC, 1"F x 3/4"F, NPT, 4.5 GPM

Item No.	QTY	Part No.	Description
		 60366-50.....	DLFC, 1"F x 3/4"F, NPT, 5.0 GPM
		 60366-60.....	DLFC, 1"F x 3/4"F, NPT, 6.0 GPM
		 60366-70.....	DLFC, 1"F x 3/4"F, NPT, 7.0 GPM
		 60708-00.....	DLFC, 1"F x 3/4"F, NPT, No Button
		 60708-8.0.....	DLFC, 1"F x 3/4"F, NPT, 8.0 GPM
		 60708-9.0.....	DLFC, 1"F x 3/4"F, NPT, 9.0 GPM
		 60708-10.....	DLFC, 1"F x 3/4"F, NPT, 10.0 GPM
		 60708-12.....	DLFC, 1"F x 3/4"F, NPT, 12.0 GPM
		 60708-15.....	DLFC, 1"F x 3/4"F, NPT, 15.0 GPM
		 60721-00.....	DLFC, 1"F x 1"F, NPT, No Button
		 60721-06.....	DLFC, 1"F x 1"F, NPT, 0.06 GPM
		 60721-08.....	DLFC, 1"F x 1"F, NPT, 0.08 GPM
		 60721-10.....	DLFC, 1"F x 1"F, NPT, 1.0 GPM
		 60721-12.....	DLFC, 1"F x 1"F, NPT, 1.2 GPM
		 60721-13.....	DLFC, 1"F x 1"F, NPT, 1.3 GPM
		 60721-15.....	DLFC, 1"F x 1"F, NPT, 1.5 GPM
		 60721-00.....	DLFC, 1"F x 1"F, NPTF, No Button
		 60721-17.....	DLFC, 1"F x 1"F, NPTF, 1.7 GPM
		 60721-20.....	DLFC, 1"F x 1"F, NPTF, 2.0 GPM
		 60721-24.....	DLFC, 1"F x 1"F, NPTF, 2.4 GPM
		 60721-30.....	DLFC, 1"F x 1"F, NPTF, 3.0 GPM
		 60721-35.....	DLFC, 1"F x 1"F, NPTF, 3.5 GPM
		 60721-40.....	DLFC, 1"F x 1"F, NPTF, 4.0 GPM
		 60721-45.....	DLFC, 1"F x 1"F, NPTF, 4.5 GPM
		 60721-50.....	DLFC, 1"F x 1"F, NPTF, 5.0 GPM
		 60721-60.....	DLFC, 1"F x 1"F, NPTF, 6.0 GPM
		 60721-70.....	DLFC, 1"F x 1"F, NPTF, 7.0 GPM
		 60702-00.....	DLFC, 1"M x 1"F, NPT, Brass, No Button
		 60702-8.0.....	DLFC, 1"M x 1"F, NPT, 8.0 GPM
		 60702-9.0.....	DLFC, 1"M x 1"F, NPT, 9.0 GPM
		 60702-10.....	DLFC, 1"M x 1"F, NPT, 10 GPM
		 60702-12.....	DLFC, 1"M x 1"F, NPT, 12 GPM
		 60702-15.....	DLFC, 1"M x 1"F, NPT, 15 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" TUBE, W/Sleeve, HW
3.....	1	10330.....	Fitting, Sleeve, 3/8 Celcon
4.....	1	10332.....	10329.....1.....
			 10329

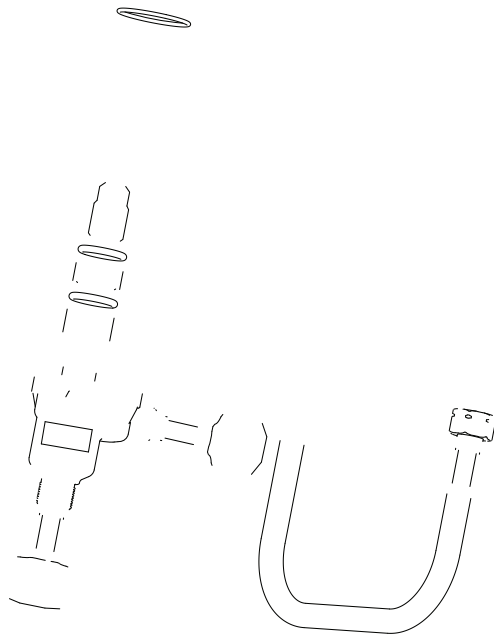
1700 BRINE VALVE SYSTEM (FOR 9500)



Item No.	QTY	Part No.	Description
1.....	1	14792.....	Plug, End, Brine Valve
2.....	1	13201.....	Quad Ring, -020
		13201-01.....	Quad Ring, -20, 560CD
3.....	1	12550.....	Quad Ring, -009
		12550-01.....	Quad Ring, -009, 560CD
4.....	1	14785-01.....	Retainer, Flow Control
5.....	2	14811.....	O-ring, -210, 560CD, Brine
6.....	1	14795.....	Piston, Brine Valve
7.....	1	16929.....	Brine Valve Stem, Coated
8.....	1	15415.....	Fitting, Insert, 1/2" Tube
9.....	1	16124.....	Fitting, Sleeve, Delrin
10.....	1	16123.....	Nut, Brass
11.....	1	15137.....	Screw, Hex Washer Mach, 10-24 x 3/8
12.....	1	10269.....	Nut, Jam, 3/4 - 16
13.....	1	16922.....	Bracket, Brine Valve Mounting
14.....	2	10250.....	Ring, Retaining
15.....	1	15310.....	Spring, Brine Valve
16.....	2	14790.....	Brine Valve Body
17.....	1	14798.....	Spacer, 1700, Brine
18.....	1	15414.....	Nut, 2900, w/Sleeve
19.....	1	15413.....	Fitting, Elbow, Male, 1/2T x 3/8 NPT
20.....	1	16959.....	Tube, Brine 9500/1710, 10.6"
		16959-01.....	Tube, Brine Valve 9500/1710, CPVC, Hot Water

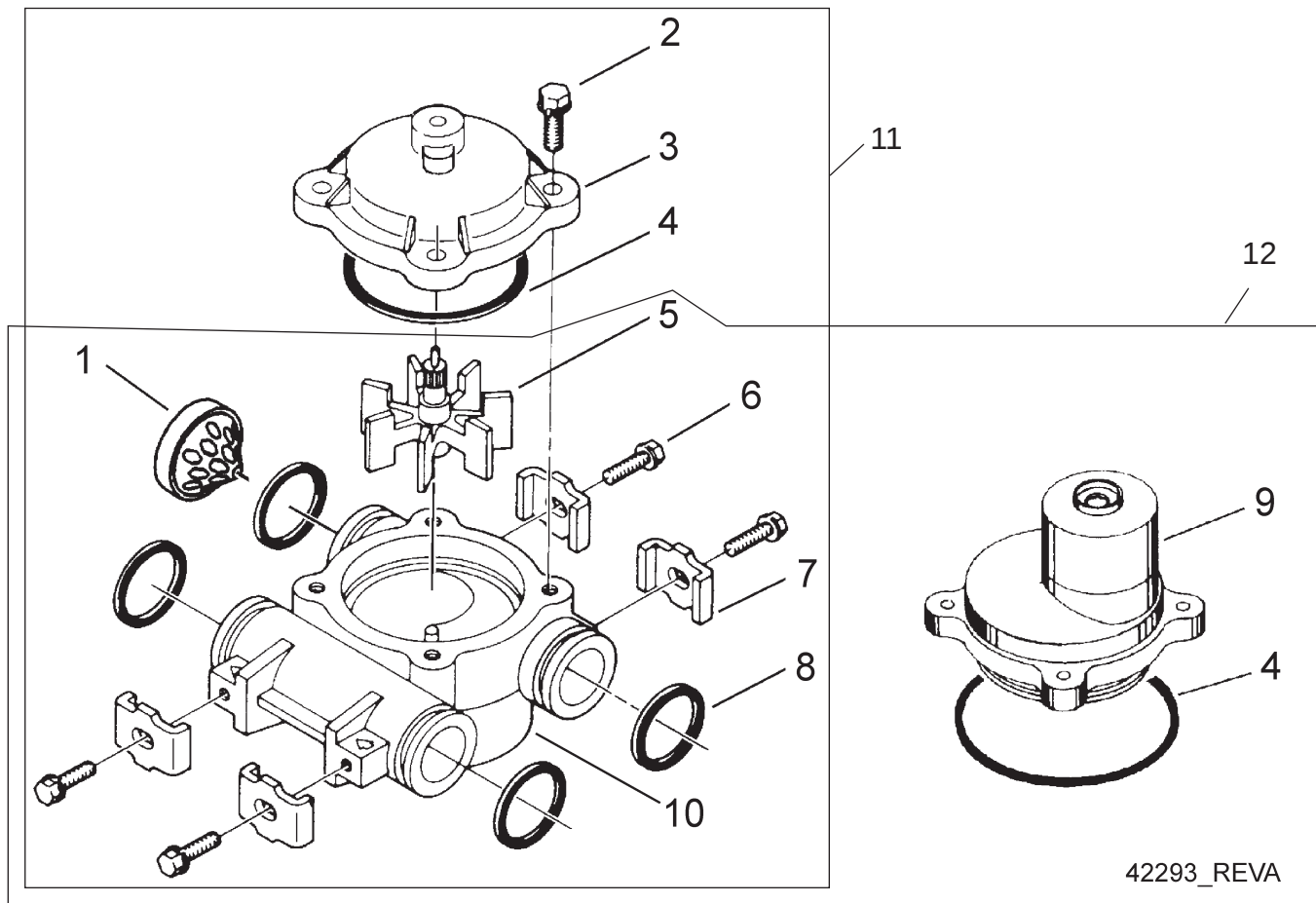
Item No.	QTY	Part No.	Description
21.....		60039-10.....	Brine Valve Assy. 9500/1700 1.0 GPM
		60039-12.....	Brine Valve Assy. 9500/1700 1.2 GPM
		60039-15.....	Brine Valve Assy. 9500/1700 1.5 GPM
		60039-20.....	Brine Valve Assy. 9500/1700 2.0 GPM
		60039-24.....	Brine Valve Assy. 9500/1700 2.4 GPM
		60039-30.....	Brine Valve Assy. 9500/1700 3.0 GPM
		60039-50.....	Brine Valve Assy. 9500/1700 5.0 GPM
		60039-00.....	Brine Valve Assy. 9500/1700 Blank
22.....		12097.....	Washer, Flow, 1.0 GPM
		12085.....	Washer, Flow, 1.2 GPM
		19150.....	Washer, Flow, 1.3 GPM
		12086.....	Washer, Flow, 1.5 GPM
		19149.....	Washer, Flow, 1.7 GPM
		12087.....	Washer, Flow, 2.0 GPM
		12088.....	Washer, Flow, 2.4 GPM
		12089.....	Washer, Flow, 3.0 GPM
		12090.....	Washer, Flow, 3.5 GPM
		12091.....	Washer, Flow, 4.0 GPM
		19147.....	Washer, Flow, 4.5 GPM
		12092.....	Washer, Flow, 5.0 GPM
		17814.....	Washer, Flow, 6.0 GPM
		12408.....	Washer, Flow, 7.0 GPM

1710 BRINE VALVE SYSTEM (FOR 9500)



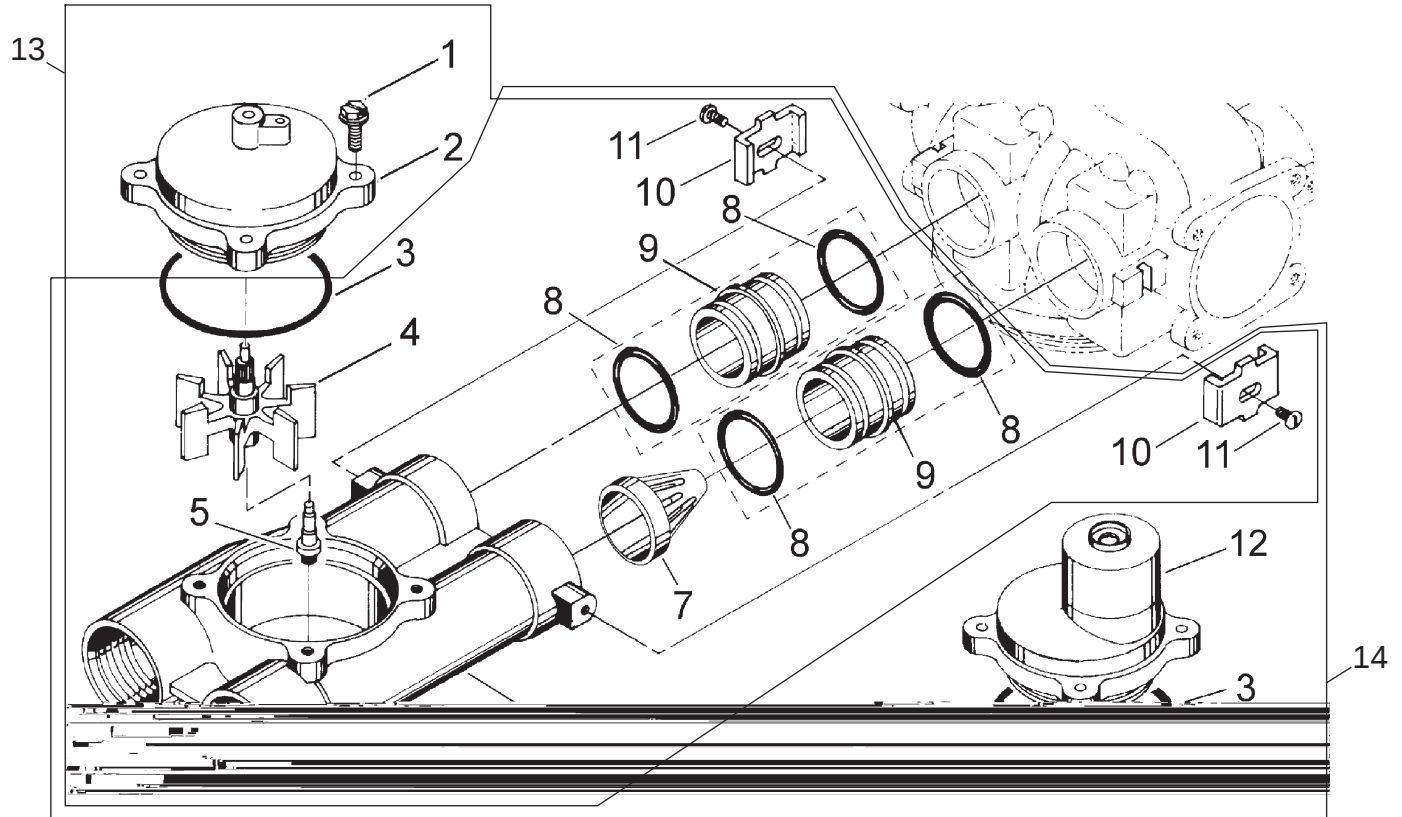
Item No.	QTY	Part No.	Description
1.....	1	41202.....	Brine Valve, 1700, Plastic, Top
2.....	1	14785-01.....	Retainer, Flow Control
3.....	2	14811.....	O-ring, -210, 560CD, Brine
4.....	1	14798.....	Spacer, 1700, Brine
5.....	1	14795.....	Piston, Brine Valve
6.....	1	41429.....	Stem, Brine, 1710, Plastic, 9500
7.....	1	41201.....	Brine Valve, 1700, Plastic, Bottm
8.....	1	12550.....	Ring, Quad, -009
9.....	1	17908.....	Sleeve, Brine Valve Stem
10.....	1	41547.....	O-ring, 2mm x 35mm
11.....	1	15310.....	Spring, Brine Valve
12.....	1	10250.....	Ring, Retaining
13.....	1	17906-01.....	Guide, Brine Valve Stem
14.....	4	14202-01.....	Screw, Hex Washer, Mach, 8-32 x 5/16"
15.....	2	41056.....	Nut Assy, 1/2" Plastic
16.....	1	41493-XX.....	Label, BLFC, 1710 (Specify GPM)
17.....	1		Washer, Flow (Specify GPM)
18.....	3	15415.....	Fitting, Insert, 1/2", Tube
19.....	1	15414.....	Nut, 2900, w/Sleeve
20.....	1	16959.....	Tube, Brine 9500/1700, 10.6"

3/4" 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.....	O-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.....	O-ring, -119
9.....	1	15150.....	Meter Cap Assy, EXT, Plastic Paddle
10.....	1	13821.....	Body, Meter, 5600
11.....	1	60086.....	Meter Assy, 3/4" Dual Port, Slip, STD, Plastic, Paddlewheel, w/ Clips
12.....	1	60087.....	Meter Assy, 3/4" Dual Port, Slip, EXT, Plastic, Paddlewheel, w/ Clips

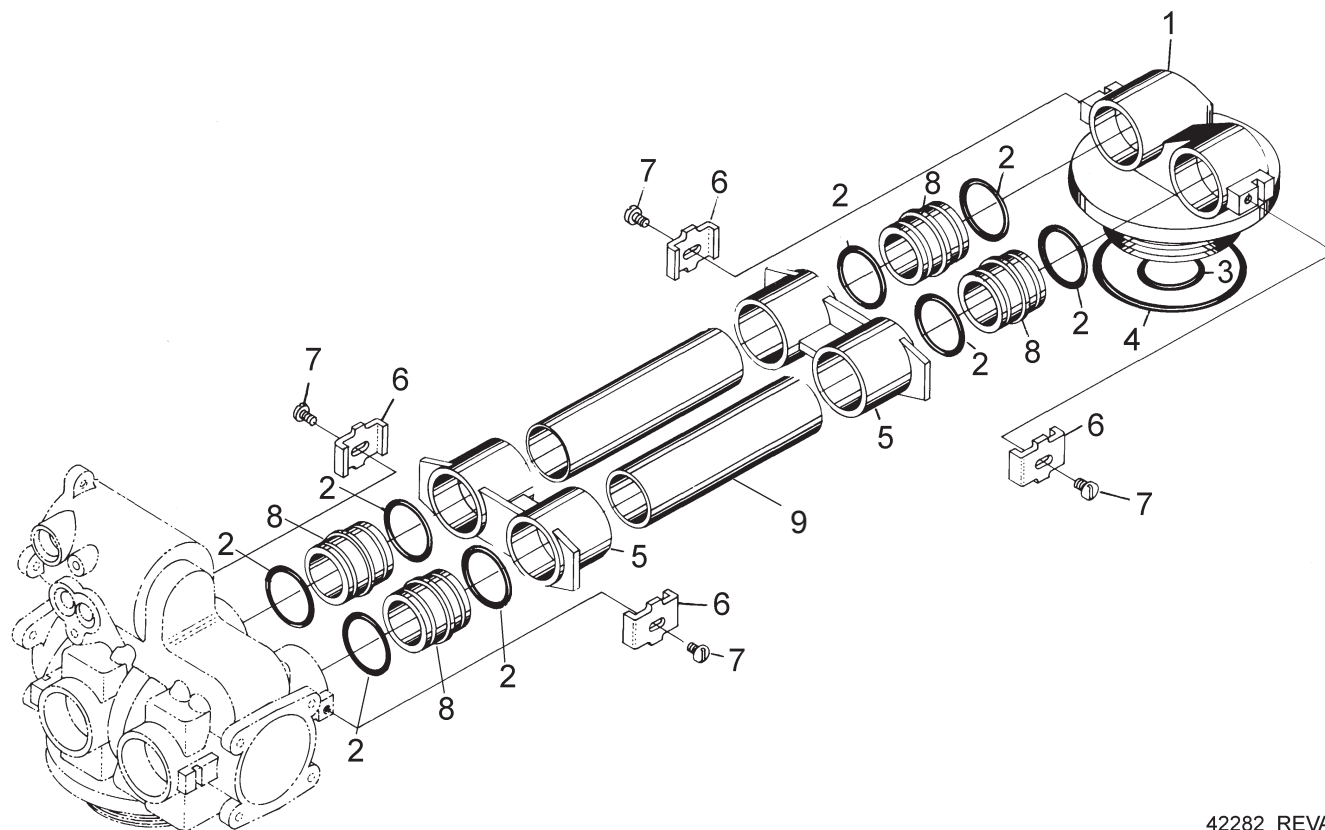
1" METER ASSEMBLY



Item No.	QTY	Part No.	Description	Item No.	QTY	Part No.	Description
1.....	4.....	12112.....	Screw, Hex Hd Mach 10-24 x 1/2		60389-001.....	Meter Assy, 1" Dual Port, NPT, STD, BRS BDY, 560CD, PDL, W/CLPS	
2.....	1.....	15218.....	Meter Cap Assy, Brass, Standard		60389-001NP....	Meter Assy, 1" Dual Port, NPT, STD, BRS BDY, 560CD, PDL, W/CLPS	
		14038.....	Meter Cap Assy, Standard		60389NP	Meter Assy, 1" Dual Port, NPT, STD, BRS BDY, NP, PDL, W/CLPS	
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"		60612.....	Meter Assy, 1" Dual Port, NPT, STD, BRS, HW, PDL	
7.....	1.....	14960.....	Flow Straightener, 1"		60612NP	Meter Assy, 1" Dual Port, NPT, STD, BRS, HW, NP, PDL	
8.....	4.....	13305.....	O-ring, -119		61575.....	Meter Assy, 1" Dual Port, NPT, STD, BRS BDY, PDL, W/O CLP & SCW	
9.....	2.....	15078.....	Adapter, 1" Coupling		60389-20.....	Meter Assy, 1" Dual Port, BSP/Metric, STD, BRS BDY, PDL, W/CLPS	
10.....	2.....	13255.....	Clip, Mounting		60390-20.....	Meter Assy, 1" Dual Port, BSP/Metric, EXT, BRS BDY, PDL, W/CLPS	
11.....	2.....	14202-01.....	Screw, Hex Washer Mach, 8-32 x 5/16		60632-20.....	Meter Assy, 1" Dual Port, BSP/Metric, EXT, BRS, HW, PDL	
12.....	1.....	15150.....	Meter Cap Assy, Ext, Plastic Paddle		60612-20.....	Meter Assy, 1" Dual Port, BSP/Metric, STD, BRS, HW, PDL	
		15237.....	Meter Cap Assy, Ext, Brass Paddle				
13.....		60390.....	Meter Assy, 1" Dual Port, NPT, EXT, BRS BDY, PDL, W/CLPS				
		60390-001.....	Meter Assy, 1" Dual Port, NPT, EXT, BRS BDY, 560CD, PDL, W/CLPS				
		60390NP.....	Meter Assy, 1" Dual Port, NPT, EXT, BRS BDY, NP, PDL, W/CLPS				
		60632.....	Meter Assy, 1" Dual Port, NPT, EXT, BRS, HW, PDL				
		60632NP.....	Meter Assy, 1" Dual Port, NPT, EXT, BRS, HW, NP, PDL				
		60389.....	Meter Assy, 1" Dual Port, NPT, STD, BRS BDY, PDL, W/CLPS				

Item No.	QTY	Part No.	Description
1	1	17569	Body, Meter, 2850/9500
2	1	13882	Post, Meter Impeller
3	1	13509	Impeller, Meter
	1	13509-01	Impeller, Celcon, Hot Water
4	1	13847	O-Ring, -137, Std/560CD, Meter
5A	1	14038	Meter Cap Assy, STD Range, Plastic
5B	1	15150	Meter Cap Assy, Ext Range, Plastic
6	4	12112	Screw, Hex Hd Mach, 10-24 x 1/2 18-8 Stainless Steel
7	1	17542	Flow Straightener, 1-1/2"
8	1	12733	O-Ring, -132
9	1	17544	Fitting, 1-1/2" Quick Connector
10	1	17543	Nut, 1-1/2", Q/C
11		60610-01	Meter Assy, 1-1/2", NPT, STD, Brass, Paddlewheel
		60610-21	Meter Assy, 1-1/2", BSP, STD, Brass, Paddlewheel
12		60610-02	Meter Assy, 1-1/2", NPT, STD, Brass Paddlewheel
		60610-22	Meter Assy, 1-1/2", BSP, EXT, Brass, Paddlewheel
Not Shown			
1		17790	Sleeve, Meter, 1 1/2" x 1"
1		15218	Meter Cap Assy, STD Range, Brass, Hot Water
1		15237	Meter Cap Assy, EXT Range, Brass, Hot Water
			Sleeve, Meter, 1.5" x 1"

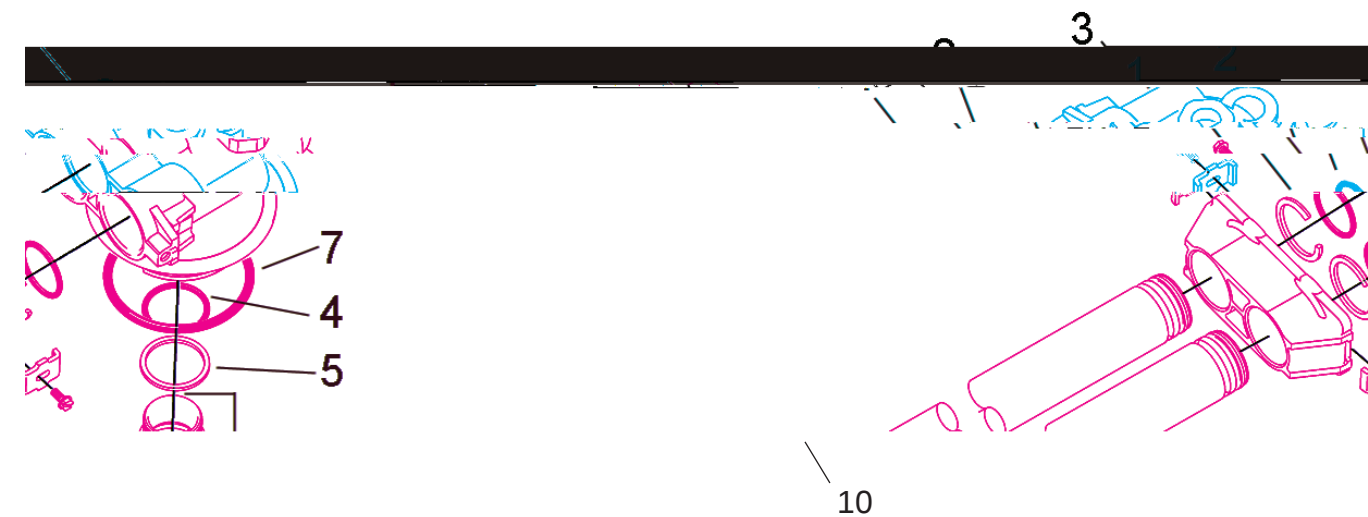
9000 SECOND TANK ASSEMBLY



42282_REVA

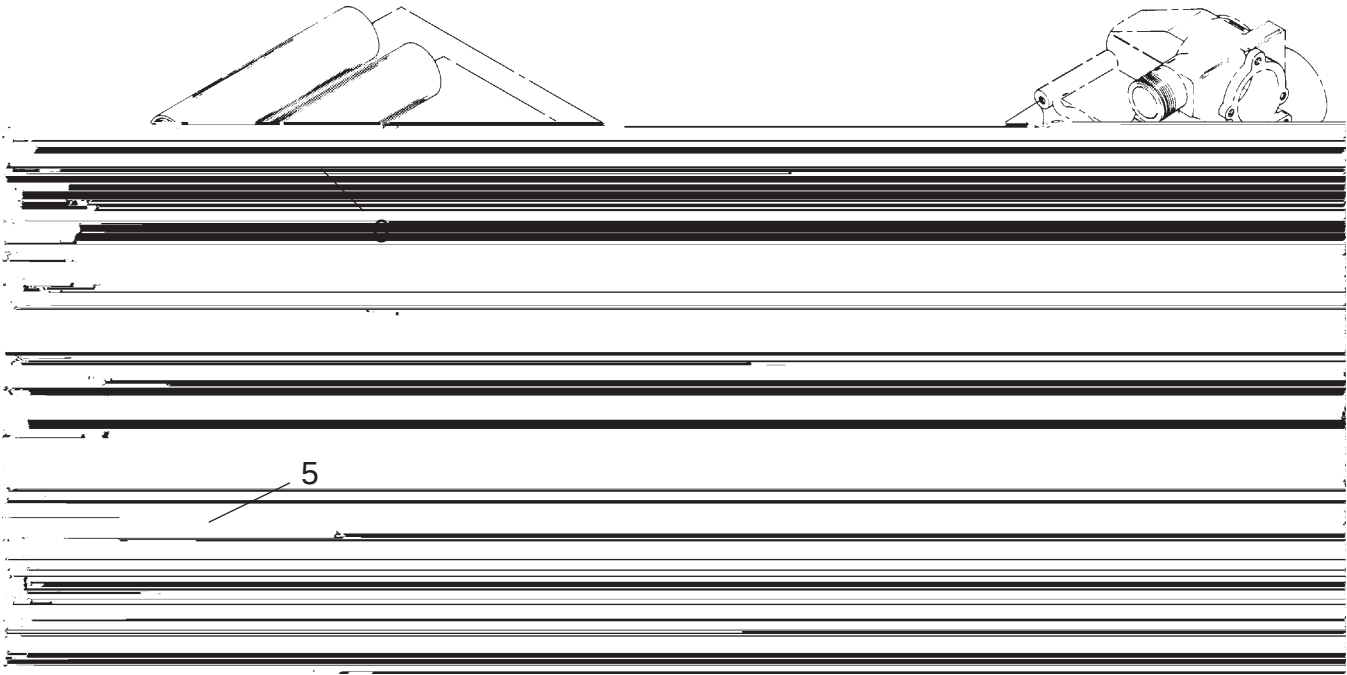
Item No.	QTY	Part No.	Description
1.....	1	14864-01.....	Adapter, 9000, 2nd Tank, Machd w/O-rings
2.....	8	13305.....	O-ring, -119
3.....	1	11710.....	O-ring, -215
4.....	1	12281.....	O-ring, -338
5.....	2	13708-40.....	Yoke, 1" Sweat
.....	1	15823-XX.....	Yoke Assy. Specify Tank Size
6.....	4	13255.....	Clip, Mounting
7.....	4	14202-01.....	Screw, Hex Washer Mach, 8-32 x 5/16
8.....	4	15078.....	Adapter, 1" Coupling
9.....		15823-06.....	9000 Tube Assy, 6" Dia. Tank Only (Overall Length 7.25)
.....		15823-06NP.....	9000 Tube Assy, 6" Dia. Tank Only (Overall Length 7.25)
.....		15823-12.....	9000 Tube Assy, 6" to 12" Dia. Tank (Overall Length 9.75)
.....		15823-12NP.....	9000 Tube Assy, 6" to 12" Dia. Tank (Overall Length 9.75)
.....		15823-14.....	9000 Tube Assy, 14" Dia. Tank (Overall Length 11.75)
.....		15823-14NP.....	9000 Tube Assy, 14" Dia. Tank (Overall Length 11.75)
.....		15823-16.....	9000 Tube Assy, 16" Dia. Tank (Overall Length 13.75)
.....		15823-16NP.....	9000 Tube Assy, 16" Dia. Tank (Overall Length 13.75)

9100 SECOND TANK ASSEMBLY



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, O-ring Dist, 7000
6.....	1	61419.....	Kit, 1.05" 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" Tank
		 60425-12.....	Tube Assy, 9100 6-12" Tank
		 60425-16.....	Tube Assy, 9100 13-16" Tank

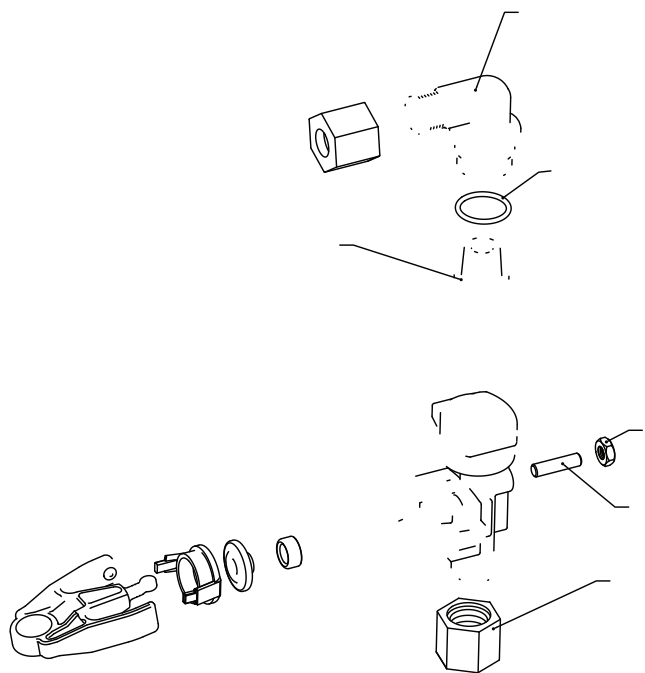
9500 SECOND TANK ASSEMBLY



Item No.	QTY	Part No.	Description
1.....	1	13577	O-ring, -226
2.....	1	16455	O-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" 9500
		 17465-16NP.....	Tube Assy, 2nd Tank, 16" 9500 Nickel Plated
		 17465-20.....	Tube Assy, 2nd Tank, 20" 9500
		 17465-24.....	Tube Assy, 2nd Tank, 24" 9500
		 17465-24NP.....	Tube Assy, 2nd Tank, 24" 9500 Nickel Plated

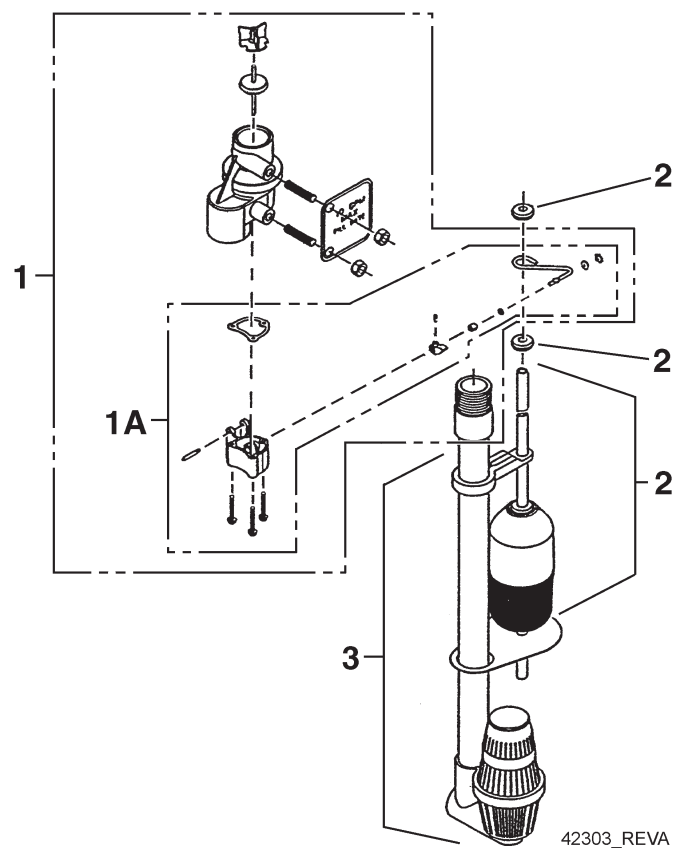
Item No.

2310 SAFETY BRINE VALVE



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

2350 SAFETY BRINE VALVE

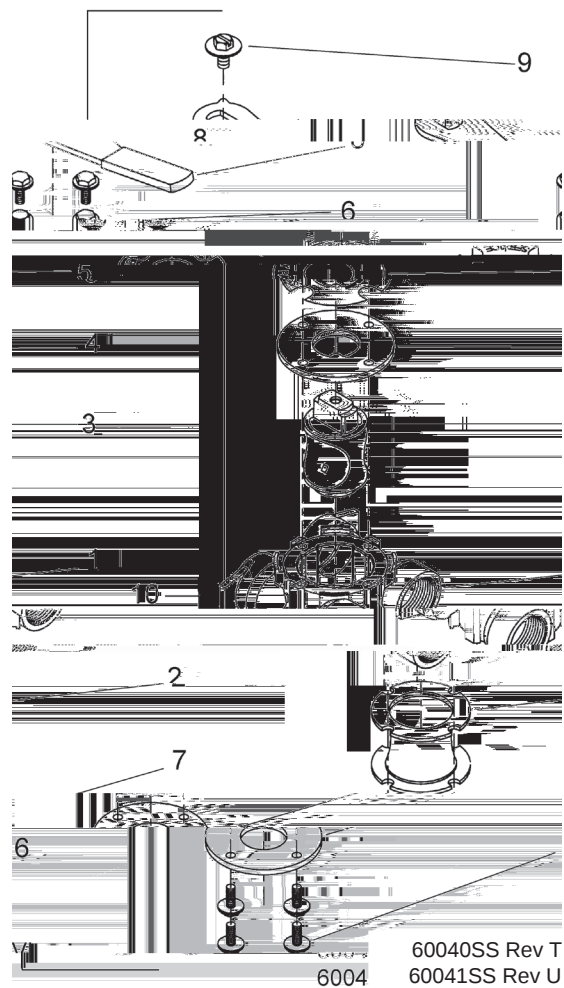


Item No.	QTY	Part No.	Description
1.....	1	60038.....	Safety Brine Valve, 2350
1A.....	1	61024.....	Actuator Assy, 2350 Brine
2.....	1	60028-30.....	Float Assy, 2350, 30" Wht
.....	1	60026-30SAN ..	Float Assy, 2350, 30" Hot Water
3.....	1	60009-00.....	Air Check, #900, Commercial Less Fittings
.....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

Not Shown

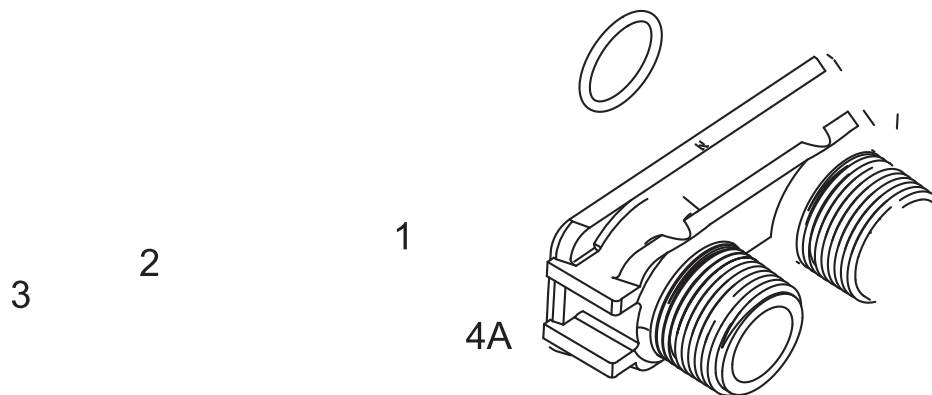
.....	1	18603.....	Fitting Assy, 900 Air Check 2350
.....	1	18602.....	Fitting Assy, 900 Air Check

BYPASS VALVE ASSEMBLY (METAL)



Item No.	QTY	Part No.	Description
1.....	1	40614.....	Bypass Body, 3/4"
		 40634.....	Bypass Body, 1", 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"
10.....	1	60040SS	Bypass Valve, 5600, 3/4" NPT Blk Grip Lever, SS
		 60041SS	Bypass Valve, 5600, 1" NPT Blk Grip Lever, SS
*	2	19228-01.....	Adapter Assy, Coupling, w/O-rings

*Not Shown



4B

Item No.	QTY	Part No.	Description
1.....	2	13305.....	O-ring, -119
2.....	2	13255.....	Clip, Mounting
3.....	2	13314.....	Screw, Slot Ind Hex, 8-18 x .60
4A	1	18706.....	Yoke, 1", NPT, Plastic
		18706-02.....	Yoke, 3/4", NPT, Plastic
4B	1	13708-40.....	Yoke, 1", Sweat
		13708-45.....	Yoke, 3/4", Sweat
		19275.....	Yoke, Angle 90 Deg, 3/4", NPT
		19275-45.....	Yoke, Angle 90 Deg, 3/4" Sweat
		19620-01.....	Yoke Assy, 3/4", R/Angle, 90 Deg w/O-rings, Clips & Screws
		40636.....	Yoke, 1 1/4", NPT
		40636-49.....	Yoke, 1 1/4", Sweat
		41027-01.....	Yoke, 3/4", NPT, Cast, Machined
		41026-01.....	Yoke, 1", NPT, Cast, Machined, SS
		41026-02.....	Yoke, 1", BSP, Cast, MACHD, SS
		18706-10.....	Yoke, 1", BSP, Plastic
		41027-02.....	Yoke, 3/4", BSP, Cast, MACHD
		18706-12.....	Yoke, 3/4", BSP, Plastic
		19620-01.....	Yoke Assy, 3/4", R/Angle, 90 Deg
5.....	1	60049.....	Bypass Plastic
*	2	19228-01.....	Adapter Assy, Coupling, w/O-rings

*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.

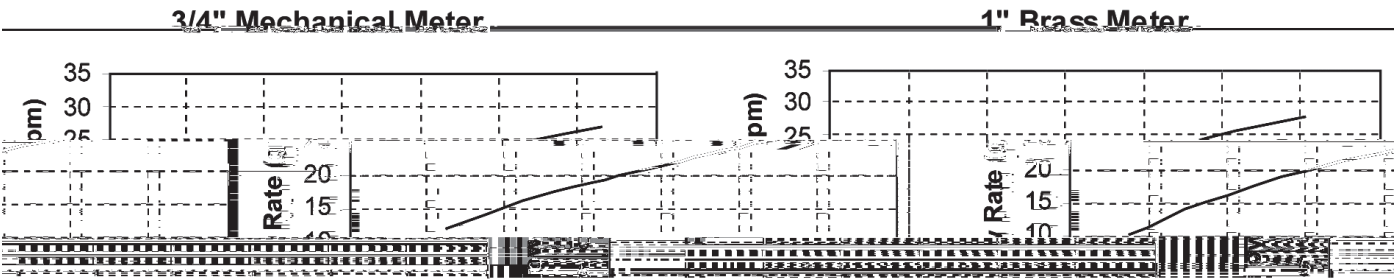
Correction: Check meter with meter checker.

TROUBLESHOOTING

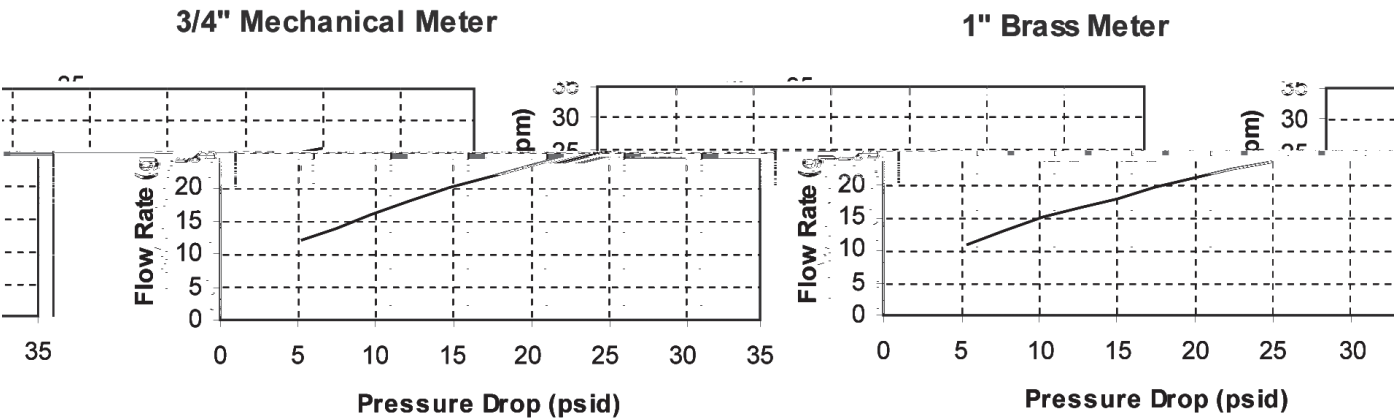
Problem	Cause	Correction
Water conditioner fails to regenerate.	Electrical service to unit has been interrupted	Assure permanent electrical service (check fuse, plug, pull chain, or switch)
	Timer is defective.	Replace timer.
	Power failure.	Reset time of day.
Hard water.	By-pass valve is open.	Close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

9000/9100/9500 METER FLOW DATA

9000 Meter Flow Data

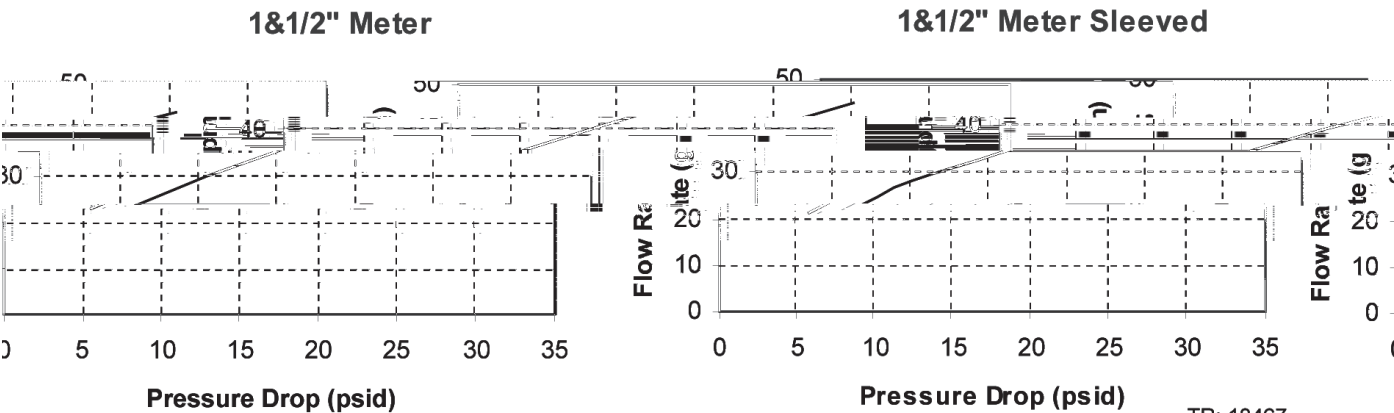


9100 Meter Flow Data



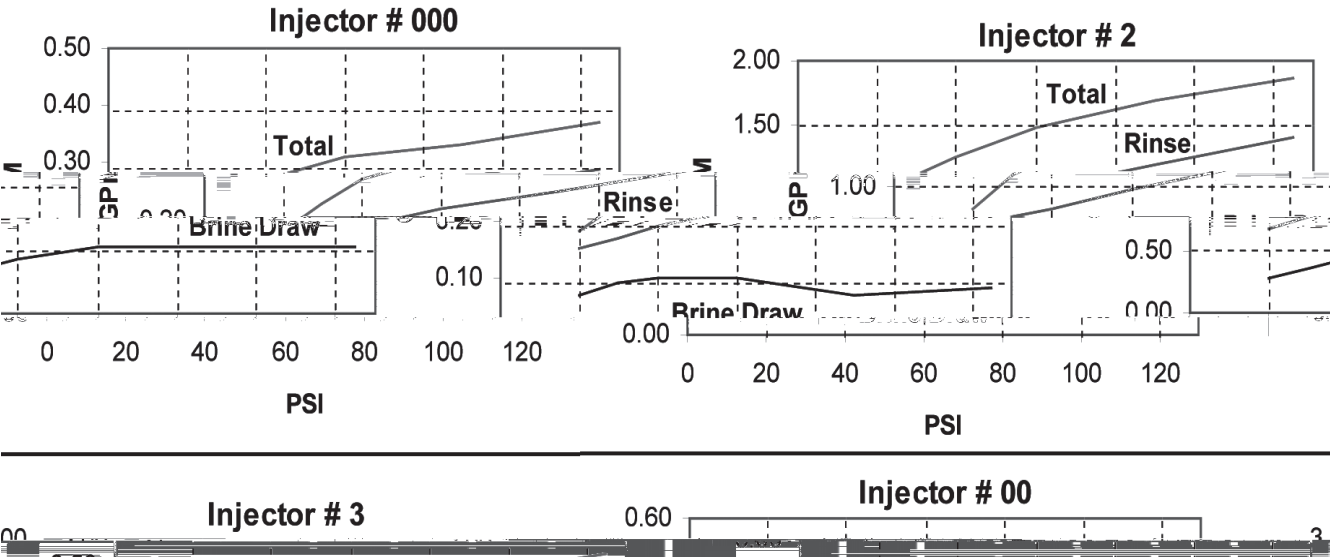
TR: 18467
41092

9500 Meter Flow Data



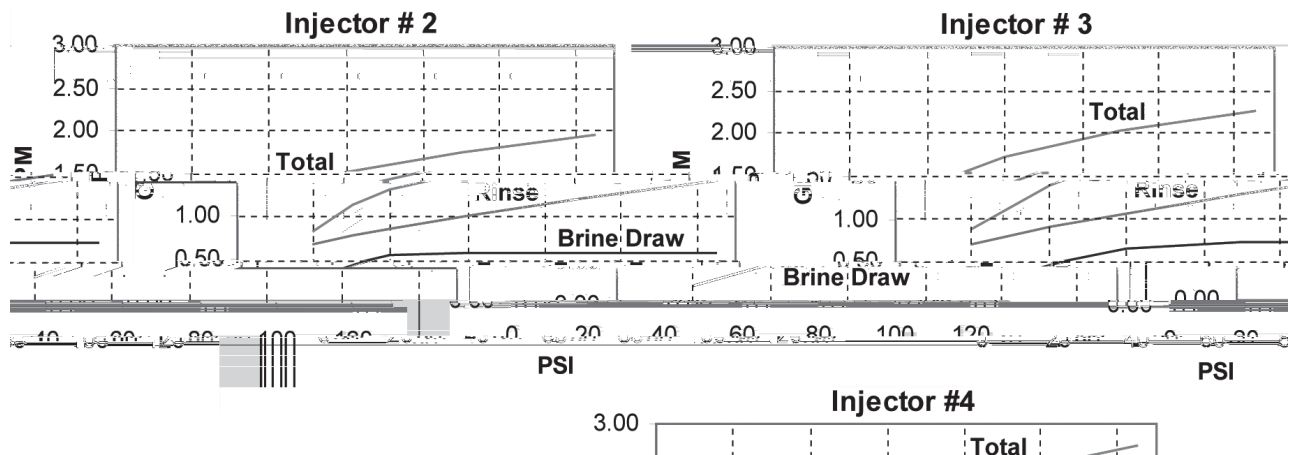
TR: 18467
41092

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

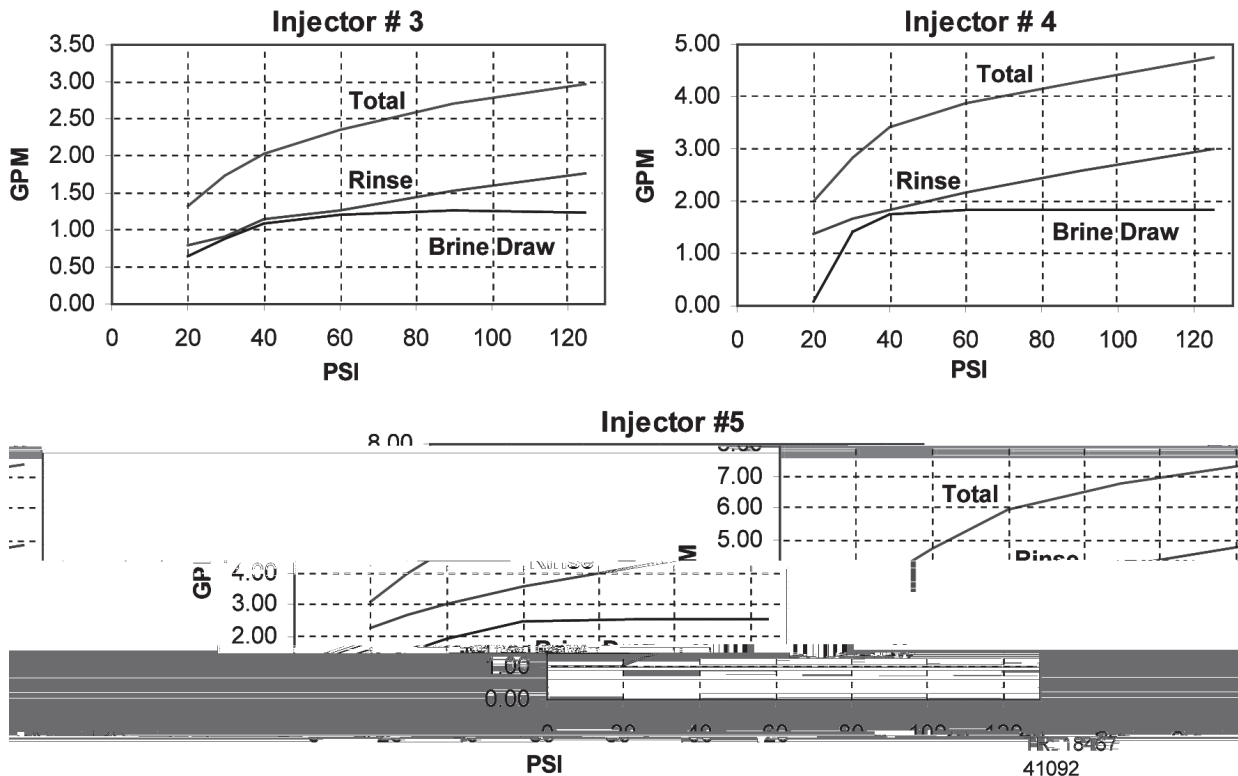


**9500 INJECTOR FLOW DATA (1600
&1700 SERIES INJECTORS)**

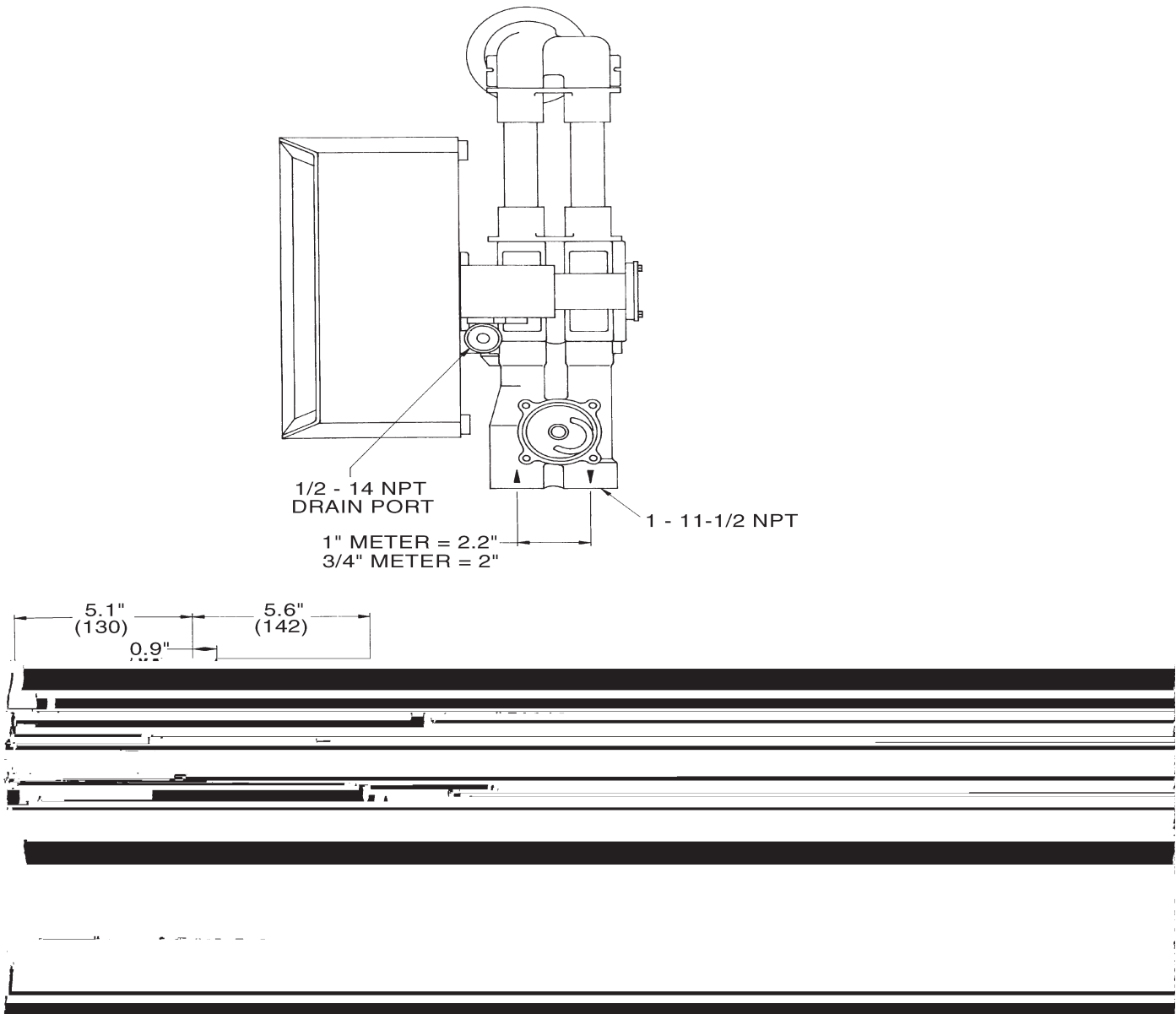
1600 Series Injectors



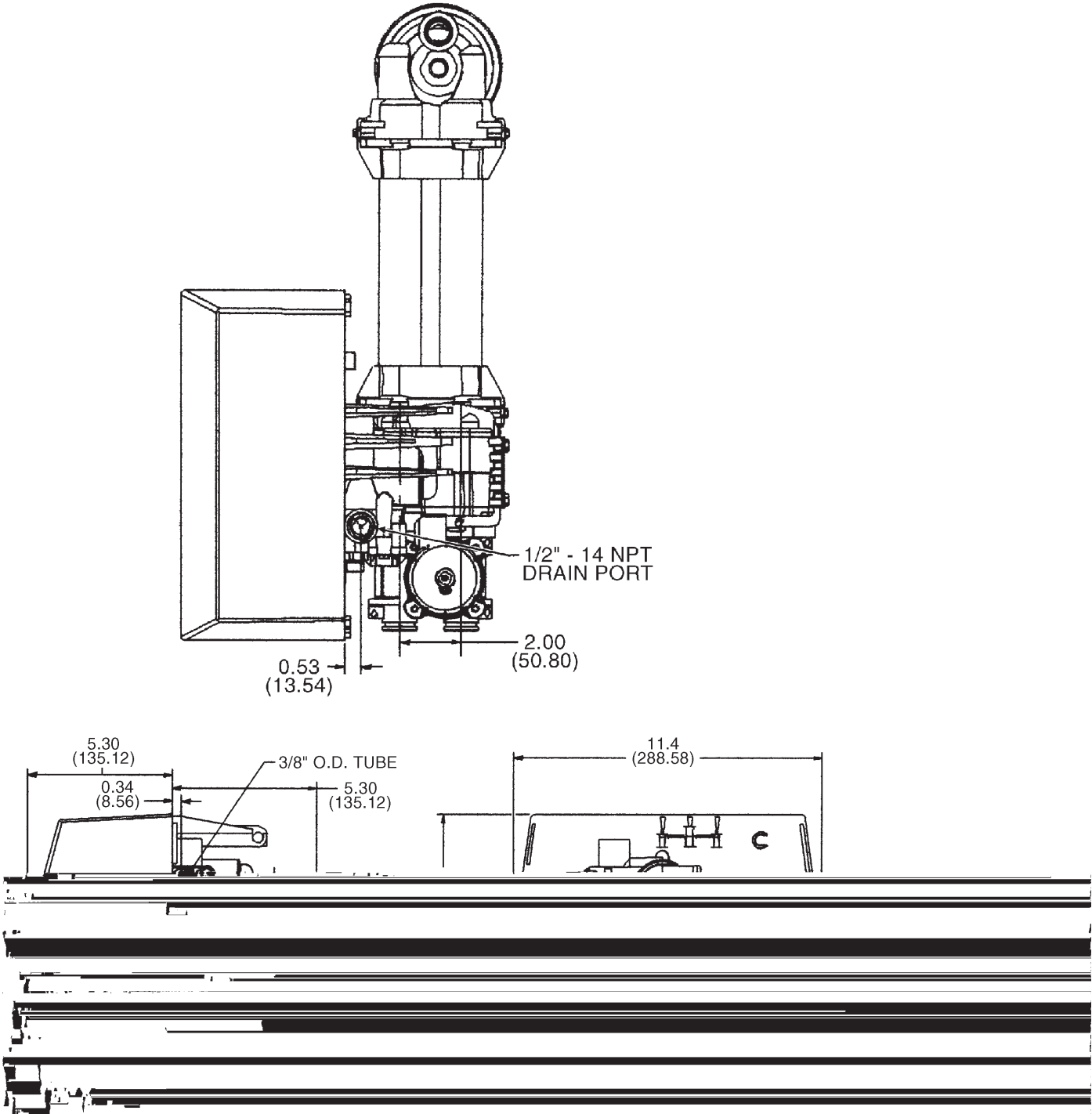
1700 Series Injectors



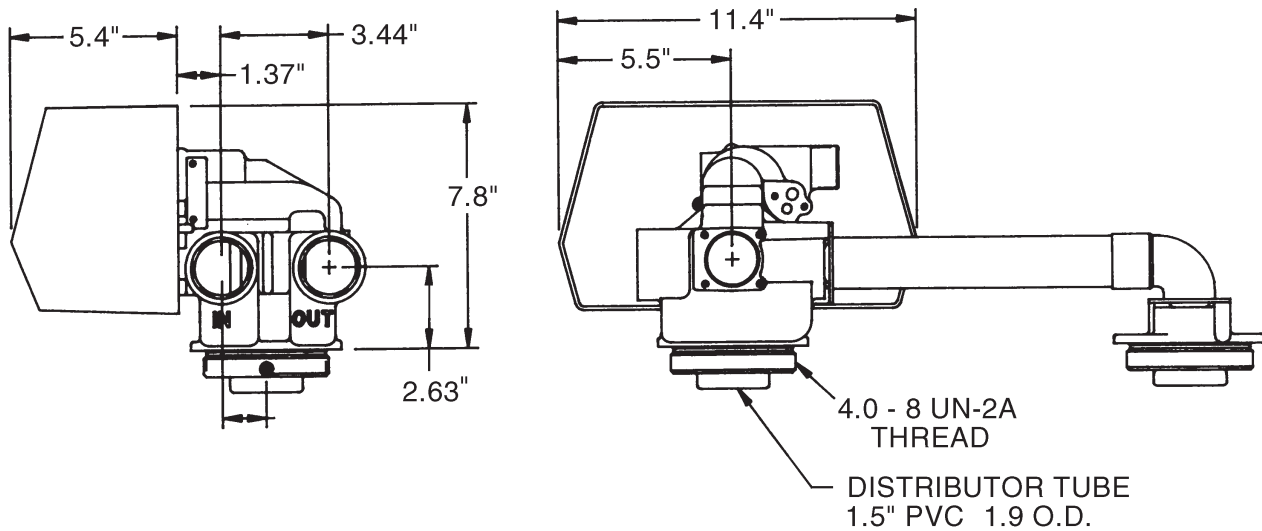
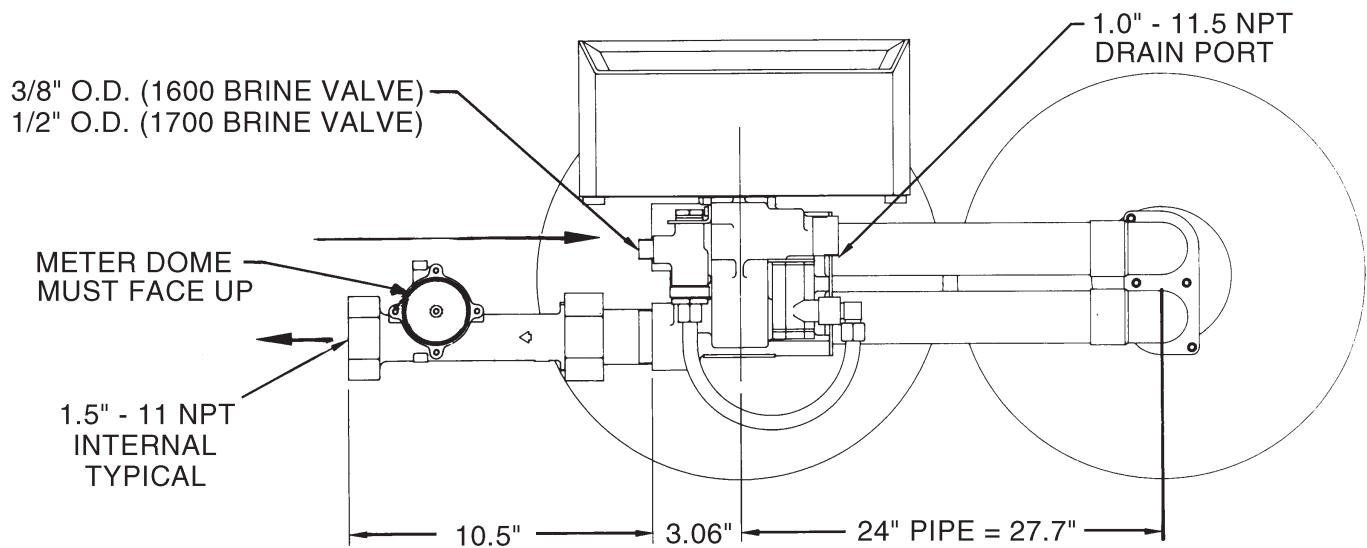
9000 CONTROL DIMENSIONS



9100 CONTROL DIMENSIONS



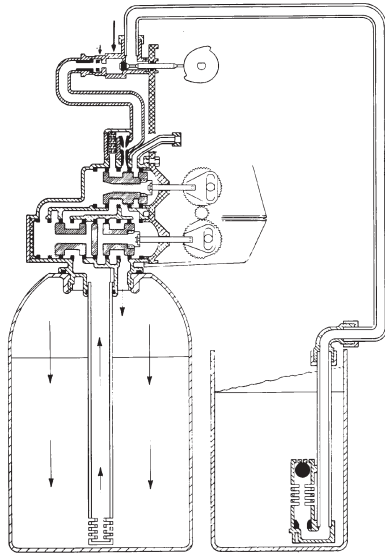
9500 CONTROL DIMENSIONS



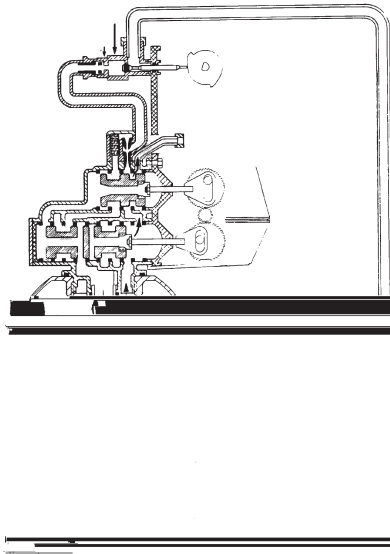
61500-9500LNE_REVA

WATER CONDITIONER FLOW DIAGRAMS

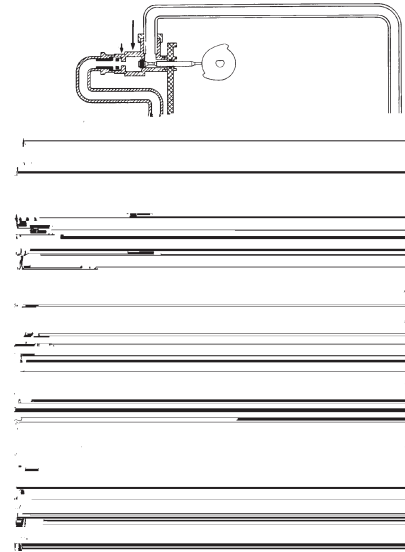
1 In Service Position



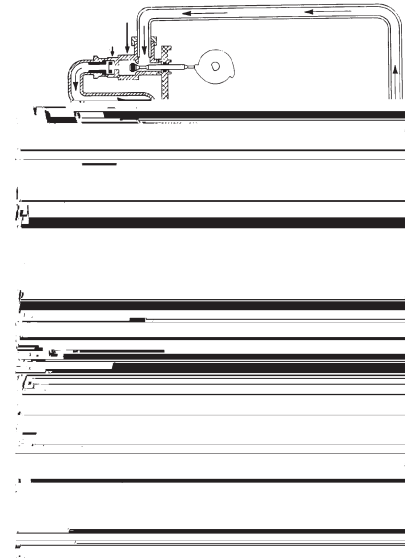
2 Backwash Position



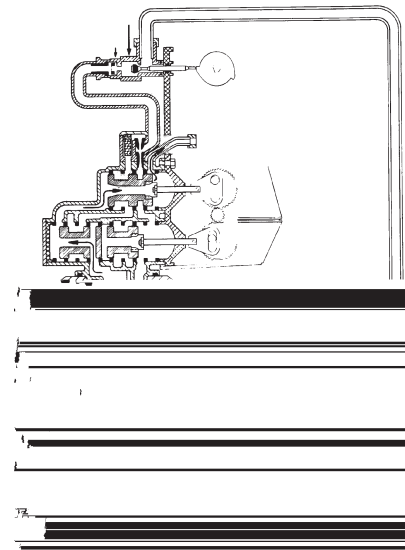
3 Tanks Switching Position (Meter Initiated Regeneration)



4 Brine Draw Position

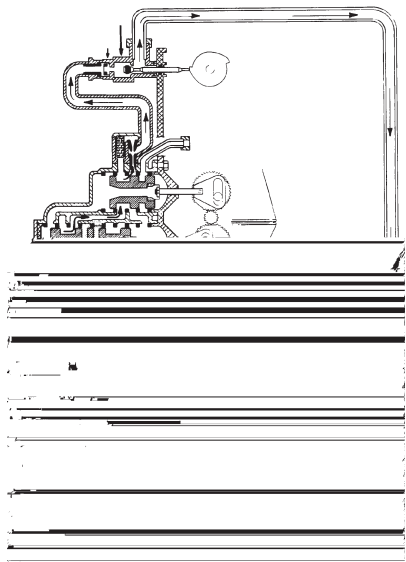


5 Slow Rinse

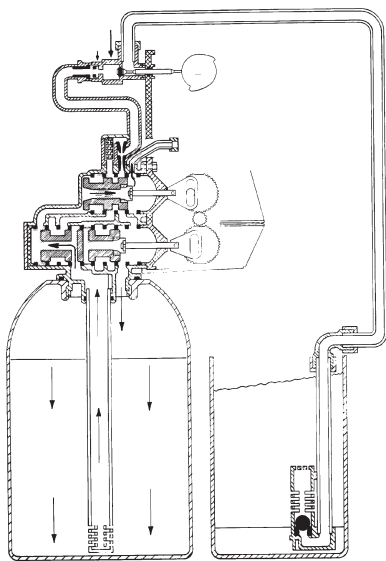


WATER CONDITIONER FLOW DIAGRAMS

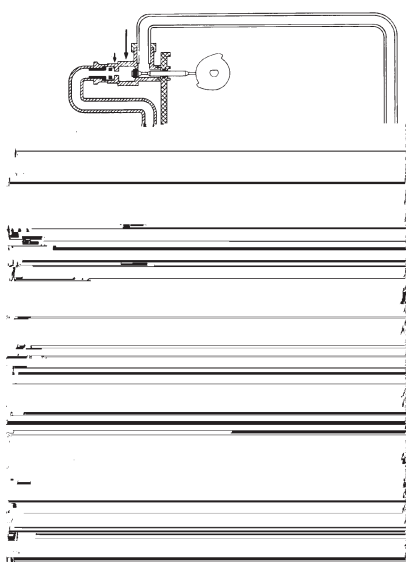
6 Brine Tank Fill Position

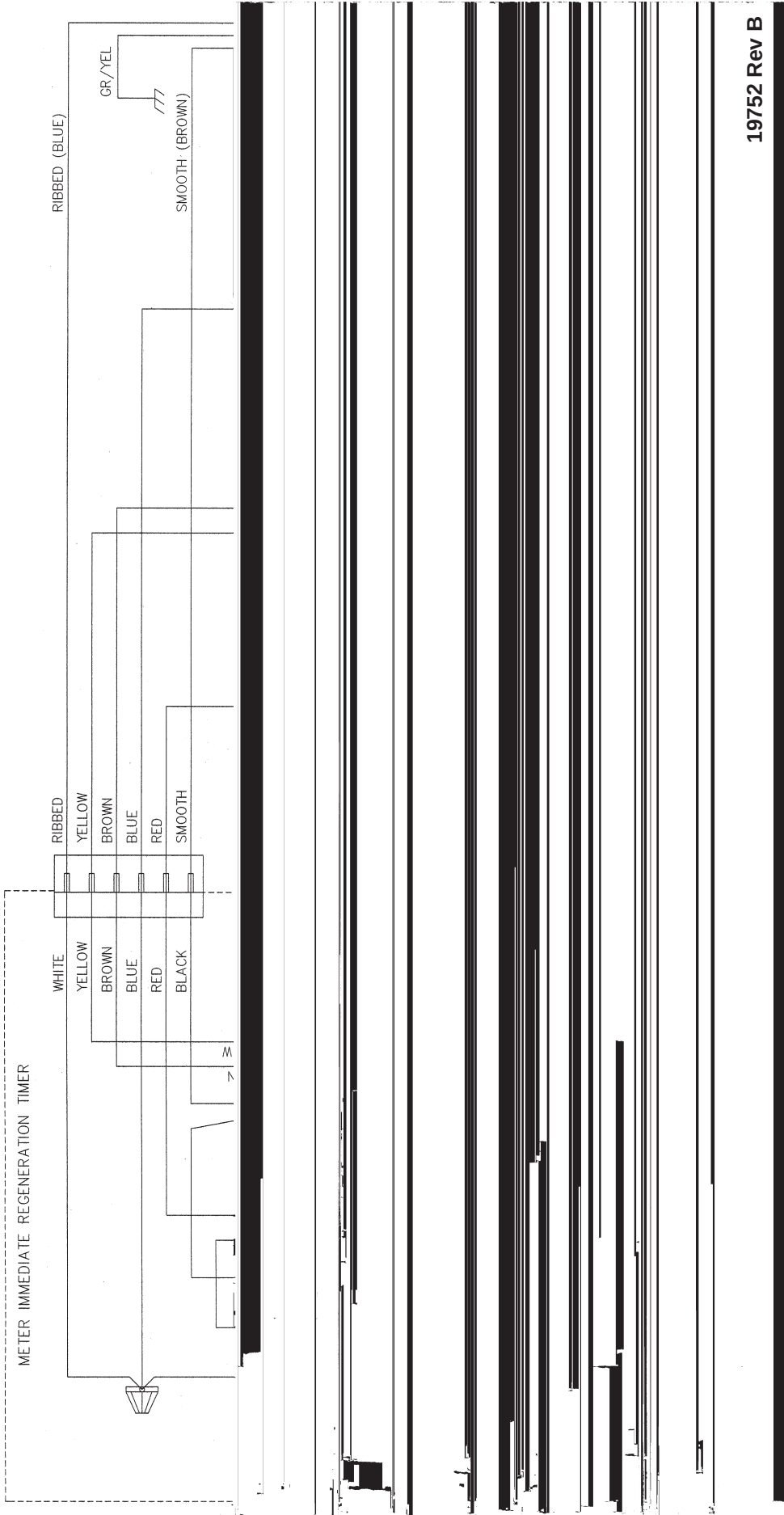


7 Rapid Rinse Position



8 In Service Position, Tanks Switched





SERVICE ASSEMBLIES

Brine Line Flow Controls (9000/9100):

60022-12BLFC, .125 GPM, 5000/5600/9000/9100
60022-25BLFC, .25 GPM, 5000/5600/9000/9100
60022-50BLFC, .50 GPM, 5000/5600/9000/9100
60022-100BLFC, 1.0 GPM, 5000/5600/9000/9100
60350.....Brine Valve Assy, 9000/9100

Brine Line Flow Controls (9500):

60020-25BLFC, .25 GPM, 1600
60020-50BLFC, .50 GPM, 1600
60020-100BLFC, 1.0 GPM, 1600

Brine Valve Assemblies:

60037-610Brine Valve, 9500/1600, .25 GPM,
Cold & HW 180°
60037-620Brine Valve, 9500/1600, .50 GPM,
Cold & HW 180°
60037-630Brine Valve, 9500/1600, 1.0 GPM,
Cold & HW 180°
60350.....Brine Valve Assy 9000/9100,
Cold & HW 180°
60350-01Brine Valve Assy, 9000/9100/Twinf100,
Cold & HW 180°

1700 Brine Valve Assemblies (9500):

60039-XX.....Brine Valve, 1700/9500, Cold &
HW 180°

Bypass Assemblies:

60040SS.....Bypass Valve, 5600, 3/4" NPT
60041SS.....Bypass Valve, 5600, 1" NPT
60049.....Bypass Plastic Assy

Injector Assemblies (9000/9100):

60385-X.....Injector Assembly (specify size of
injector)

Injector	Number	DLFC	Number	BLFC	Number
Red #0	00	Blank	0	Blank	0
White #1	01	1.2	1	0.25	1
Blue #2	02	1.5	2	0.50	2
Yellow #3	03	2.0	3	1.00	3
Green #4	04	2.4	4		
		3.0	5		
		3.5	6		
		4.0	7		
		5.0	8		
		7.0	9		

Injector Assemblies (9500):

60381-03Injector Assy, 1700, #3, Cold & HW 150°
60381-04Injector Assy, 1700, #4, Cold & HW 150°
60381-05Injector Assy, 1700, #5, Cold & HW 150°
60381-06Injector Assy, 1700, #6, Cold & HW 150°
60480-01Injector Assy, 1600, #1, Plastic,
Cold Water
60480-02Injector Assy, 1600, #2, Plastic,
Cold Water
60480-03Injector Assy, 1600, #3, Plastic,
Cold Water
60480-04Injector Assy, 1600, #4, Plastic,
Cold Water
60481-21Injector Assy, 1600, #1, SS, HW 180°
60481-21Injector Assy, 1600, #2, SS, HW 180°
60481-21Injector Assy, 1600, #3, SS, HW 180°
60481-21Injector Assy, 1600, #4, SS, HW 180°

Meter Assemblies (9000/9100):

15078-01Adapter, 1" Coupling
60086.....Meter Assy, 5600/9000/9100,
3/4" Std/Range
60087.....Meter Assy, 5600/9000/9100, 3/4", Ext
60389.....Meter Assy, 9000/9100, 1"
60389NP.....Meter Assy, 9000/9100, 1", N/P
60389-20Meter Assy, 9000/9100, 1", BSP/Metric
60390.....Meter Assy, 9000/9100, 1", Ext
60390NP.....Meter Assy, 9000/9100, 1", Ext, N/P
60390-20Meter Assy, 9000/9100, 1",
Ext/BSP/Metric
60612.....Meter Assy, 9000/9100, 1", Std Range,
HW 150°
60612NP.....Meter Assy, 9000/9100, 1", Std Range,
HW 150°, NP
14038.....Meter Cap Assy
15150.....Meter Cap Assy, Ext
15218.....Meter Cap Assy
15218NP.....Meter Cap Assy, Std, NP
15237.....Meter Cap Assy, Ext
15237NP.....Meter Cap Assy, Ext, NP
13509.....Impeller, Meter
13509-01Impeller, Celcon, HW 150°

SERVICE ASSEMBLIES

Meter Assemblies (9500):

60610-01	Meter, 2850/9500, 1 1/2" Std
60610-01HW	Meter, 2850/9500, 1 1/2" Std, HW 150°
60610-01NP	Meter, 2850/9500, 1 - 1/2" Std, N/P
60610-02	Meter, 2850/9500, 1 - 1/2" Ext
60610-02HW	Meter, 2850/9500, 1 1/2" Ext, HW 150°
60610-02NP	Meter, 2850/9500, 1 - 1/2" Ext, N/P
60610-21	Meter, 2850/9500, 1 - 1/2" Std/BSP Metric
60610-21NP	Meter, 2850/9500, 1 - 1/2" Std/BSP Metric, Nickel Plated
60610-22	Meter, 2850/9500, 1 - 1/2" Ext/BSP Metric
60610-22NP	Meter, 2850/9500, 1 - 1/2" Ext/BSP Metric/Nickel Plated
60611-01HW	Meter, 2850/9500, 1" Sleeve, 1 1/2" Std, HW 150°
60611-01	Meter, 2850/9500, 1" Sleeve, 1 1/2" Std Meter
60611-01NP	Meter, 2850/9500, 1" Sleeve, NP 1 1/2" Std Meter
60611-02	Meter, 2850/9500, 1" Sleeve, 1 1/2" Ext Meter
60611-02NP	Meter, 2850/9500, 1" Sleeve, NP 1 1/2" Ext Meter
17790	Sleeve, Meter, 1 1/2" x 1" (NOTE: when reducing a 1-1/2" meter to a 1" meter, the program wheel and timer settings must be changed to a 1" meter size)

Meter Checker Kits:

60460	Meter Checker Kit, Std
60461	Meter Checket Kit, Ext

Piston Assemblies:

60108	Piston Assy, 9500, Upper
60108-01	Piston Assy, 9500, Upper, HW 180°
60109	Piston Assy, 9500, Lower
60109-01	Piston Assy, 9500, Lower HW, 180°
60400	Piston Assy, 9000/9100, Top
60400-01	Piston Assy, 9000/9100, HW Upper, 180°
60401	Piston Assy, 9000/9100, Lower
60401-01	Piston Assy, 9000/9100 Lower, HW 180°

Seal & Spacer Kits:

60125	Seal & Spacer Kit, 5600/9000 Top
60125-20	Seal & Spacer Kit, Top, 559 PE Cold and Chloramine
60125HW	Seal & Spacer Kit, 9000/9100, Upper HW 180°
60133-01	Seal & Spacer Kit, 9500, Lower, Cold & HW 180°
60133-20	Seal & Spacer Kit, 9500, Lower
60133-30	Seal & Spacer Kit, 9500, Lower
60134	Seal & Spacer Kit, 9500, Upper, Cold & HW 180°
60134-20	Seal & Spacer Kit, 9500, Upper
60134-30	Seal & Spacer Kit, 9500, Upper
60421	Seal & Spacer Kit, 9000/9100, Bottom
60421-20	Seal & Spacer Kit, 9000/9100, Bottom 559PE
60421HW	Seal & Spacer Kit, 9000/9100, Bottom, HW 180°

Second Tank Assemblies (9000):

14202-01	Screw, Hex Washer Mach, 8-32 x 5/16 18-8 S.S.
13255	Clip, Mounting
15078-01	Adapter Assy, 1" Coupling
14864-01	Adapter, 9000/9100, 2nd Tank, Machd w/O-rings
14864-01NP	Adapter, 9000/9100, 2nd Tank, Machd, NP
15823-06	Yoke Assy, 6" Tank & 6" Tube
15823-06NP	Yoke Assy, 6" Tank, NP 6" Tubes
15823-12	Yoke Assy, 6" - 12" Tank, 8 1/2 Tube
15823-12NP	Yoke Assy, 6" - 12" Tank, NP 8 1/2" Tubes
15823-14	Yoke Assy, 14" Tank, 10 1/2" Tube
15823-14NP	Yoke Assy, 14" Tank, NP 10 1/2" Tube
15823-16	Yoke Assy, 16" Tank, 12 1/2" Tube
15823-16NP	Yoke Assy, 16" Tank, NP 12 1/2" Tube

Second Tank Assemblies (9100):

60425-12	Tube Assy, 9100, 6-12" Tanks
60425-16	Tube Assy, 9100, 13-16" Tanks
14865	Adapter Assy, 2nd Tank, 9100
61419	Kit, 1.05" Distributor Adapter

Second Tank Assemblies (9500):

16919-01	Valve Body, 9500 Machd
16919-01NP	Valve Body, 9500 Machd, NP
16919-21	Valve Body, 9500 BSP, Mtrc, Machd
16919-21NP	Valve Body, 9500 BSP, Mtrc, Machd Nickel Plated
60715-16	Tube Assy, 9500, 2nd Tank for 14" to 16" Tanks
60715-16NP	Tube Assy, 9500, 2nd Tank, NP for 14" to 16" Tanks
60715-20	Tube Assy, 9500, 2nd Tank for 20" Tanks
60715-24	Tube Assy, 9500, 2nd Tank for 20" and 24" Tanks
60715-24NP	Tube Assy, 9500, 2nd Tank, Nickel for 20-24" Tanks

Single Piece Plastic End Cap Assemblies

61701-01	Plug Assy, End Cap 9000/9100
61701-02	Plug Assy, End Cap 9500

Tools:

12763	Stuffer Tool Assy, 5600/9000
13061	Puller Assy, Port Ring
13759	Tool, DLFC Retainer

Valve Body Assembly (9100):

40688	Valve Body Assy, 9100
18303	O-ring, -336
18569	Retainer, Tank Seal

