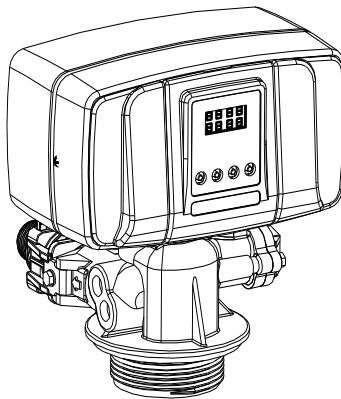




265 Series

Valve Operation Manual



Note:

1. Read all instructions carefully before operation.
2. Avoid pinched o-rings during installation by applying (provided with install kit) NSF certified lubricant to all seals.

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Water Softener Gallon Setting Chart

Instructions: First select the chart for your model of water softener, then simply line up the number of people living in the home with the hardness of the water and select the appropriate gallon setting for your model

@6lb/CF		Total Hardness in Grains per US Gallon												
0.75 CF		10	15	20	25	30	35	40	45	50				
Number of people living in the home	1	1425	925	675	525	425	354	300	258	225				
	2	1350	850	600	450	350	279	225	183					
	3	1275	775	525	375	275								
	4	1200	700	450										
	5	1125	625											
	6	1050												
	7	975												
	8	900												
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.														

1.00 CF		Total Hardness in Grains per US Gallon											
0.75 CF		10	15	20	25	30	35	40	45	50	55	60	65
Number of people living in the home	1	1925	1258	925	725	592	496	425	369	325	289	258	233
	2	1850	1183	850	650	517	421	350	294	250	214	183	
	3	1775	1108	775	575	442	346	275					
	4	1700	1033	700	500	367							
	5	1625	958	625									
	6	1550	883										
	7	1475	808										
	8	1400	733										
	9	1325											
	10	1250											
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.													

1.50 CF		Total Hardness in Grains per US Gallon													
0.75 CF		10	15	20	25	30	35	40	45	50	55	60	65	70	75
Number of people living in the home	1	2925	1925	1425	1125	925	782	675	592	525	470	425	387	354	325
	2	2850	1850	1350	1050	850	707	600	517	450	395	350	312	279	250
	3	2775	1775	1275	975	775	632	525	442	375	320	275			
	4	2700	1700	1200	900	700	557	450	367						
	5	2625	1625	1125	825	625	482								
	6	2550	1550	1050	750	550									
	7	2475	1475	975	675										
	8	2400	1400	900											
	9	2325	1325	825											
	10	2250	1250												
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.															

2.0 CF		Total Hardness in Grains per US Gallon													
0.75 CF		10	15	20	25	30	35	40	45	50	55	60	65	70	75
Number of people living in the home	1	3925	2592	1925	1525	1258	1068	925	814	725	652	592	540	496	458
	2	3850	2517	1850	1450	1183	993	850	739	650	577	517	465	421	383
	3	3775	2442	1775	1375	1108	918	775	664	575	502	442	390	346	308
	4	3700	2367	1700	1300	1033	843	700	589	500	427	367			
	5	3625	2292	1625	1225	958	768	625	514						
	6	3550	2217	1550	1150	883	693								
	7	3475	2142	1475	1075	808									
	8	3400	2067	1400	1000	733									
	9	3325	1992	1325	925										
	10	3250	1917	1250											
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.															

Instructions: First select the chart for your model of water softener, then simply line up the number of people living in the home with the hardness of the water and select the appropriate gallon setting for your model

@10lb/CF		Total Hardness in Grains per US Gallon													
0.75 CF		10	15	20	25	30	35	40	45	50					
Number of people living in the home	1	1950	1275	938	735	600	504	431	375	330					
	2	1875	1200	863	660	525	429	356	300						
	3	1800	1125	788	585	450									
	4	1725	1050	713											
	5	1650	975												
	6	1575													
	7	1500													
	8	1425													
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.															

1.00 CF		Total Hardness in Grains per US Gallon											
0.75 CF		10	15	20	25	30	35	40	45	50	55	60	65
Number of people living in the home	1	2625	1725	1275	1005	825	696	600	525	465	416	375	340
	2	2550	1650	1200	930	750	621	525	450	390	341	300	
	3	2475	1575	1125	855	675	546	450					
	4	2400	1500	1050	780	600							
	5	2325	1425	975									
	6	2250	1350										
	7	2175	1275										
	8	2100	1200										
	9	2025											
	10	1950											
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.													

1.50 CF		Total Hardness in Grains per US Gallon													
0.75 CF		10	15	20	25	30	35	40	45	50	55	60	65	70	75
Number of people living in the home	1	3975	2625	1950	1545	1275	1082	938	825	735	661	600	548	504	465
	2	3900	2550	1875	1470	1200	1007	863	750	660	586	525	473	429	390
	3	3825	2475	1800	1395	1125	932	788	675	585	511	450			
	4	3750	2400	1725	1320	1050	857	713	600						
	5	3675	2325	1650	1245	975	782								
	6	3600	2250	1575	1170	900									
	7	3525	2175	1500	1095										
	8	3450	2100	1425											
	9	3375	2025	1350											
	10	3300	1950												
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.															

2.0 CF		Total Hardness in Grains per US Gallon													
0.75 CF		10	15	20	25	30	35	40	45	50	55	60	65	70	75
Number of people living in the home	1	5325	3525	2825	2085	1725	1488	1275	1125	1005	907	825	756	696	645
	2	5250	3450	2550	2010	1650	1393	1200	1050	930	832	750	681	621	570
	3	5175	3375	2475	1935	1575	1318	1125	975	855	757	675	606	546	495
	4	5100	3300	2400	1860	1500	1243	1050	900	780	682	600			
	5	5025	3225	2325	1785	1425	1168	975	825						
	6	4950	3150	2250	1710	1350	1093								
	7	4875	3075	2175	1635	1275									
	8	4800	3000	2100	1560	1200									
	9	4725	2925	2025	1485										
	10	4650	2850	1950											
Softener could be undersized if # of people and hardness line up in this shaded area. Consideration may be given to a larger size unit to meet your needs.															

Instructions: First select the chart for your model of water softener, then simply line up the number of people living in the home with the hardness of the water and select the appropriate gallon setting for your model

@15lb/CF

0.75 CF		Total Hardness in Grains per US Gallon									
		10	15	20	25	30	35	40	45	50	
Number of people living in the home	1	2175	1425	1050	825	675	568	488	425	375	
	2	2100	1350	975	750	600	493	413	350		
	3	2025	1275	900	675	525					
	4	1950	1200	825							
	5	1875	1125								
	6	1800									
	7	1725									
	8	1650									

Softener could be undersized if # of people and hardness line up in this shaded area.
Consideration may be given to a larger size unit to meet your needs.

1.00 CF		Total Hardness in Grains per US Gallon											
		10	15	20	25	30	35	40	45	50	55	60	65
Number of people living in the home	1	2925	1925	1425	1125	925	782	675	592	525	470	425	387
	2	2850	1850	1350	1050	850	707	600	517	450	395	350	
	3	2775	1775	1275	975	775	632	525					
	4	2700	1700	1200	900	700							
	5	2625	1625	1125									
	6	2550	1550										
	7	2475	1475										
	8	2400	1400										
	9	2325											
	10	2250											

Softener could be undersized if # of people and hardness line up in this shaded area.
Consideration may be given to a larger size unit to meet your needs.

1.50 CF		Total Hardness in Grains per US Gallon													
		10	15	20	25	30	35	40	45	50	55	60	65	70	75
Number of people living in the home	1	4425	2925	2175	1725	1425	1211	1050	925	825	743	675	617	568	525
	2	4350	2850	2100	1650	1350	1136	975	850	750	668	600	542	493	450
	3	4275	2775	2025	1575	1275	1061	900	775	675	593	525			
	4	4200	2700	1950	1500	1200	986	825	700						
	5	4125	2625	1875	1425	1125	911								
	6	4050	2550	1800	1350	1050									
	7	3975	2475	1725	1275										
	8	3900	2400	1650											
	9	3825	2325	1575											
	10	3750	2250												

Softener could be undersized if # of people and hardness line up in this shaded area.
Consideration may be given to a larger size unit to meet your needs.

2.0 CF		Total Hardness in Grains per US Gallon													
		10	15	20	25	30	35	40	45	50	55	60	65	70	75
Number of people living in the home	1	5925	3925	2925	2325	1925	1639	1425	1258	1125	1016	925	848	782	725
	2	5850	3850	2850	2250	1850	1564	1350	1183	1050	941	850	773	707	650
	3	5775	3775	2775	2175	1775	1489	1275	1108	975	866	775	698	632	575
	4	5700	3700	2700	2100	1700	1414	1200	1033	900	791	700			
	5	5625	3625	2625	2025	1625	1339	1125	958						
	6	5550	3550	2550	1950	1550	1264								
	7	5475	3475	2475	1875	1475									
	8	5400	3400	2400	1800	1400									
	9	5325	3325	2325	1725										
	10	5250	3250	2250											

Softener could be undersized if # of people and hardness line up in this shaded area.
Consideration may be given to a larger size unit to meet your needs.

Introduction

This valve is controlled with simple, user-friendly electronics displayed on a LCD screen. The main page displays the current time and the remaining gallons in meter mode or the remaining days in calendar clock mode.

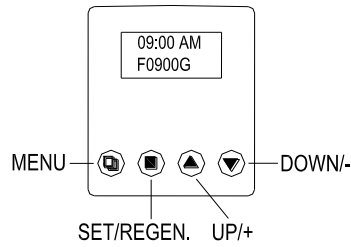


Figure 1. Valve Display

System Initialization

When power is supplied to the control, the screen will display TIME OF DAY AND DEFAULT GALLON SETTING. If the valve is not in service it will read "CANATURE" while the valve returns to the service position.

Programming

1. Press 'MENU' to enter programming. If the system has been inactive, you may have to hold and press 'MENU' until you hear a beep to unlock the display screen. Press 'UP' or 'DOWN' to select which setting to modify.
2. To change setting, press 'SET/REGEN.'. When the display flashes, the value may be changed. Press 'UP' or 'DOWN' to change the value. Press 'SET/REGEN.' to accept the value.
3. Press 'MENU' to return to previous menu.

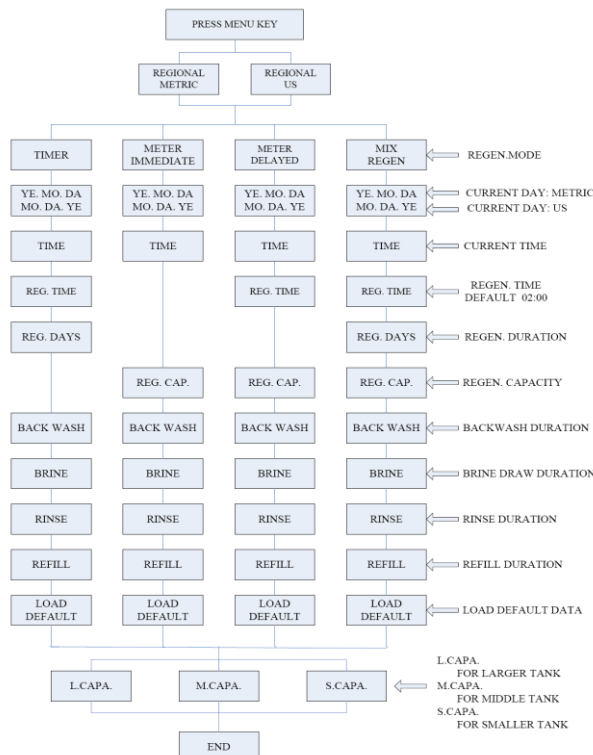


Figure 2. Program Flow Chart


Program Options

Depending on the current option settings, some parameters cannot be viewed or set.

Program Mode			
PARAMETER		OPTIONS	DESCRIPTION
1	REGIONAL	METRIC	This option controls whether cubic meters or US gallons is used for the volume display and the format of the day, year, and month.
		US	
2	REGENERATION MODE	METER DELAYED	This is the most common setting. When the volume remaining reaches zero gallons, the system will initiate a regeneration at the next pre-set regeneration time.
		METER IMMEDIATE	The unit will initiate a regeneration immediately after the volume remaining reaches zero.
		TIMER	The unit will initiate a regeneration at the next pre-set regeneration time based on the interval of days between regeneration days.
		MIX REGEN	Meter initiated with Day Override. When the volume remaining reaches zero gallons, the system will initiate a regeneration at the next pre-set regeneration time. If the days between regeneration is reached before the remaining volume reaches zero, the system will override the meter setting and initiate a regeneration.
4	DATE		Set date of installation. This value is fixed and does not change.
5	TIME		Set current time.
6	REG TIME		This setting controls the time of day when a regeneration cycle will start.
7	REG. DAYS		The user can manually enter values for regeneration day intervals.
8	REG. CAP.		The user can manually enter values system capacity.
9	BACKWASH		This option controls the length of time in minutes for the unit to clean the bed by reversing the flow of water upwards through the bed and out to the drain.
10	BRINE		This option controls the length if time in minutes for the unit to draw regenerant (brine for softeners) from the second tank and slowly rinse it from the top to bottom of the tank.
11	RINSE		This option controls the length of time to give the tank a final rinse from the top to the bottom in order remove any last traces of the regenerant (brine) from the tank.
12	REFILL		This option controls the length of time the brine valve will open to refill the second tank (brine tank for softeners) with water in order to produce the regenerate solution (brine for softeners) for the next regeneration cycle. The water is accurately measured through the valves brine line flow control to make a precise quantity of regenerant solution.
13	LOAD DEFAULT	L.CAPA.	It is not recommended to use any of these options. The function of this option is to load pre-set values of BACKWASH, BRINE, RINSE, and REFILL for large, medium, and small capacity systems. We recommend to use the settings as specified in the SYSTEM CONFIGURATION section of this manual.
		M.CAPA	
		S.CAPA	

Figure 3. Program Options


Manual Regeneration (Delayed or Immediate)

If screen is locked, press “ MENU” for 3 seconds to unlock. To initiate an immediate regeneration, press the SET / REGEN button for 3 seconds, an option for delayed or immediate regeneration will appear. Press the SET / REGEN button again and delayed will begin flashing, press the down arrow button to have immediate flash, press the SET / REGEN button and then press the menu button and the valve will immediately start into manual regeneration.

To initiate a delayed regeneration, press the SET / REGEN button for 3 seconds, then press the menu button and a regeneration will be queued to the next pre-set regeneration time (2:00 a.m.).

General Valve Installation

Water Pressure	Minimum 25 PSI
Electrical Supply	Uninterrupted 115V AC
Existing Plumbing	Free of any deposits or build-ups inside pipes.
Softener Location	Locate close to drain and connect according to plumbing codes
Bypass Valves	Always provide for bypass valve if unit is not equipped with one.
Plumbing	Softener and or other water treatment equipment should be installed to local plumbing codes

	<p>CAUTION</p> <ul style="list-style-type: none"> ▪ Do not exceed 120 psi water pressure. ▪ Do not exceed 110°F water temperature. ▪ Do not subject unit to freezing conditions.
---	--

Installing the Bypass valve

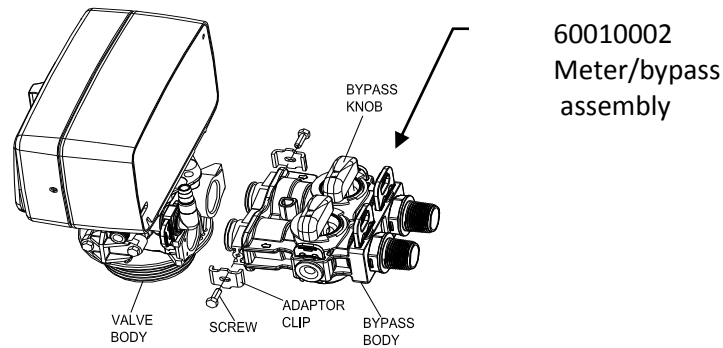


Figure 4. Bypass Assembly View

1. Locate the softener tank and brine tank close to a drain where the system will be installed. The surface should be clean and level.
2. Perform all plumbing according to local plumbing codes.
 - Use a ½" minimum pipe or tubing size for the drain line
 - Use a ¾" pipe or tubing for backwash flow rates that exceed 7 gpm or length that exceeds 20ft (6 m)
 - **ON COPPER PLUMBING SYSTEMS BE SURE TO INSTALL A GROUNDING WIRE BETWEEN THE INLET AND OUTLET PIPING TO MAINTAIN GROUNDING.**
3. Any solder joints near the valve must be done before connecting any piping to the valve. Always leave at least 6" (152 mm) between the valve and joints when soldering pipes that are connected to the valve. Failure to do this could cause damage to the valve.
4. If the valve is not installed on the tank, cut the 1" central pipe flush with top of each tank. Lubricate the large o-ring on the valve that seals against the tank. Screw the valve on to the tank. Be careful to not cross thread the valve into the tank. Only use silicone lubricant.
5. Connect the drain line to the valve.
6. Connect the brine line from the valve to the air check / safety elbow as per figure 8. Double check to make sure all connections are assembled correctly and the brass and plastic nuts are tight and secure to prevent leaks.
7. Add water until there is approximately 1" (25 mm) of water above the grid plate. If the tank does not have a grid, add water until it is above the air check in the brine tank. Do not add salt to the brine tank at this time.
8. Place the unit in the bypass position.
9. Slowly turn on the main water supply.

10. At the nearest cold treated water tap nearby remove the faucet screen, open the faucet and let water run a few minutes or until the system is free of any air or foreign material resulting from the plumbing work. Close the water tap when water runs clean, then proceed to start up instructions.

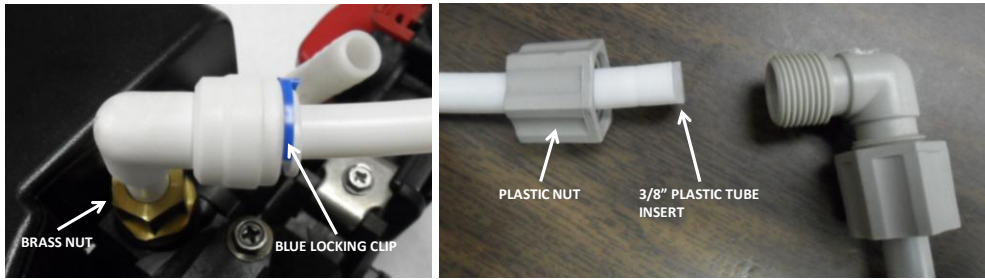


Figure 8. Brine Line Connections View

Start-up Instructions

1. Plug the valve into an approved power source.
2. When power is supplied to the control, the screen will display TIME OF DAY AND DEFAULT GALLON SETTING. If the valve is not in service it will read "CANATURE" while the valve returns to the service position.
3. If the system has been in active, you may have to hold and press '□' until you hear a beep to unlock the display screen. Press "■" to initiate a manual regeneration and advance the valve to the Backwash position. Open the inlet on the bypass valve slowly and allow water to enter the unit. Allow all air to escape from the unit before turning the water on fully then allow water to run to drain for 3-4 minutes or until all media fines are washed out of the softener or filter.
4. Press the "■" to advance to the BRINE position. Check the water level in the brine tank to insure the valve is drawing brine properly.
5. Press the "■" to advance to the RINSE position. Check the drain line flow. Allow the water to run for 3-4 minutes or until the water is clear.
6. Press the "■" to advance to the REFILL position. Check that the valve is filling water into the brine tank. Allow the valve to refill for the correct amount of time as displayed on the screen to insure a proper brine solution for the next regeneration.
7. Press the "■" to advance to the SERVICE position. Open the outlet valve to the bypass, then open the nearest treated water faucet and allow the water to run until clear, close the tap and replace the faucet screen.
8. Put salt into the brine tank.

Control Operation During A Power Failure

In the event of power failure, the valve will keep track of the time and day for 48 hours. The programmed settings are stored in a non-volatile memory and will not be lost during a power failure. If power fails while the unit is in regeneration, the valve will return to the service position once power is restored. If the valve misses a scheduled regeneration due to a power failure, it will queue a regeneration at the next regeneration time once power is restored.

System Configuration

RESIN VOLUME	SYSTEM CAPACITY (GRAINS)				CYCLE TIME (MINUTES)			REFILL TIME (MINUTES) @ 0.70 GPM BLFC			
	@ 15 lbs/cu ft	@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	BACKWASH	BRINE/RINSE	RINSE	@ 15 lbs/cu ft	@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft
0.75	22,500	19,875	16,500	10,500	10.0	60.0	10.0	6.0	4.0	2.0	1.1
1.00	30,000	26,500	22,000	14,000	10.0	60.0	10.0	7.0	5.0	3.0	1.5
1.50	45,000	39,750	33,000	21,000	10.0	60.0	10.0	11.0	7.0	5.0	2.0
2.00	60,000	53,000	44,000	28,000	10.0	60.0	10.0	14.0	10.0	6.0	3.0
3.00	90,000	79,500	66,000	42,000	10.0	60.0	10.0	21.0	14.0	9.0	4.3

Figure 5. Valve Cycle Settings

Injector and Drain Line Flow Control

Suggested Softener Valve Configuration				Suggested Filter Valve Configuration	
Tank Size (Diameter)	Injector Set	Brine Line Flow Control (BLFC)	Drain Line Flow Control (DLFC)	Tank Size (Diameter)	Drain Line Flow Control (DLFC)
6"	#000 Brown	(0.70 GPM)	#1 (1.5 GPM)	8"	#4 (3.5 GPM)
7"				9"	#6 (4.0 GPM)
8"				10"	#7 (5.0 GPM)
9"	#1 White		#2 (2.0 GPM)	12"	none
10"			#3 (2.4 GPM)		
12"			#4 (3.5 GPM)		
13"	#2 Blue		#6 (4.0 GPM)		
14"			#7 (5.0 GPM)		
16"	#3 Yellow		none		

Suggested Iron Filter Valve Configuration			
Tank Size (Diameter)	Injector	Brine Line Flow Control (BLFC)	Drain Line Flow Control (DLFC)
8"	#2 Blue (PVC)	(0.70 GPM)	#4 (3.5 GPM)
9"			#6 (4.0 GPM)
10"			#7 (5.0 GPM)
12"			none

Figure 6. Valve Configurations

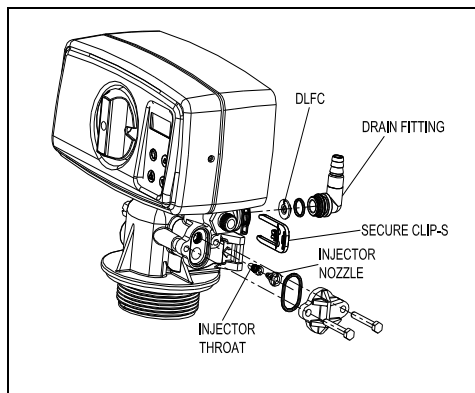
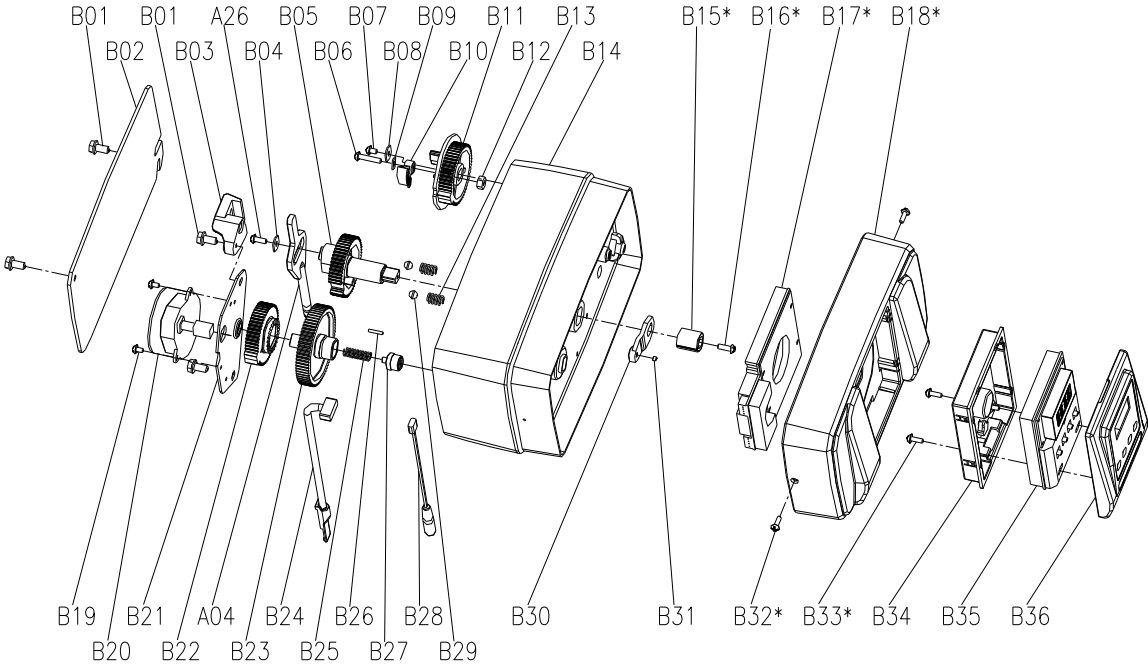


Figure 7. Injector Assembly

Power Head Exploded View

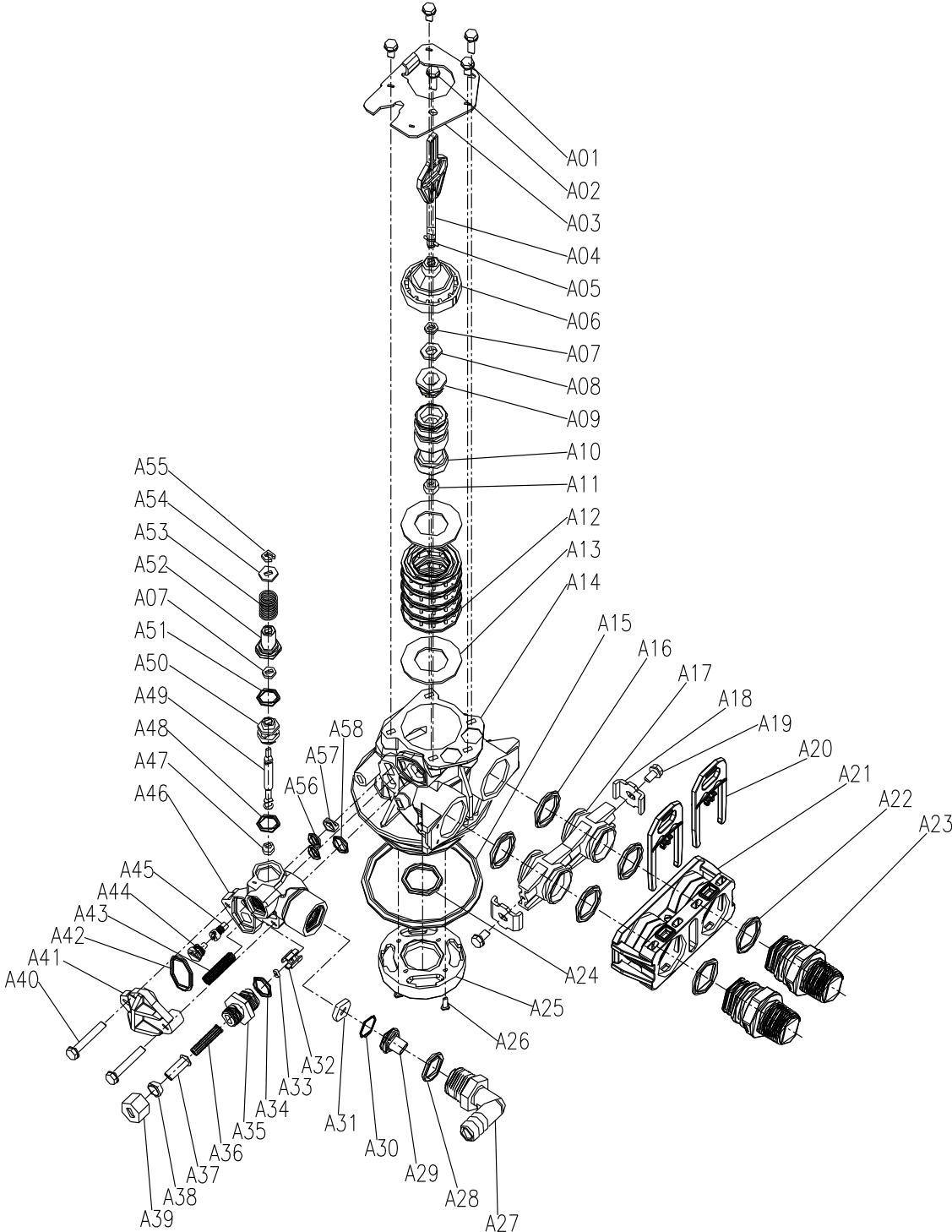


See parts listing on next page (11)

Power Head Parts List

Item No.	Part No.	Part Description	Quantity
B01	5056136	Screw-ST3.5x13(Hexagon with Washer)	4
B02	5056014	Bnt65 Back Cover	1
B03	5010045	Piston Stem Holder	1
A26	13000426	Screw-ST2.9x13(Large Wafer)	1
B04	5056139	Washer-3x13	1
B05	5056005	Main Gear	1
B06	5056083	Screw-M4x14	1
B07	5056166	Screw-ST4.2x12(Large Wafer)	1
B08	5056141	Washer-4x12	1
B09	13111004	Washer-4x9	1
B10	5056016	Refill Regulator	1
B11	5056015	Brine Gear	1
B12	5056089	Nut-M4	1
B13	5056095	Spring Detent	2
B14	5056001	Bnt65 Housing	1
B15	5056554	Locking Knob	1
B16	5056561	Screw-ST3.5x15(CSK)	1
B17	5056556	Bnt265 Main Pcb	1
	5056557	Bnt265 Wiring Harness	1
B18	5056551	Bnt265 Front Cover	1
	5056506	Bnt165 Regen. Label	1
B19	5056082	Screw-M3x5	2
B20	5056510	Motor-12v/2rpm	1
	11700005	Wire Connector	2
B21	5056045	Motor Mounting Plate	1
B22	5056501	Bnt165 Drive Gear	1
A04	5010081	Bnt65 Piston Rod	1
B23	5056002	Idler Gear	1
B24	5010031	Meter Assembly	1
	5010046	Meter Strain Relief	1
B25	5056094	Spring Idler	1
B26	5056098	Motor Pin	1
B27	5056502	Spring Retainer	1
B28	5056507	Bnt165 Power Cable	1
	5056013	Bnt65 Power Strain Relief	1
B29	5056092	Ball-1/4inch	2
B30	5056503	Magnet Holder	1
B31	5010023	Magnet-φ3×2.7	1
B32	5056509	Screw-ST2.9x10(CSK)	2
B33	5010037	Screw-ST2.9x10	2
B34	5056553	Bnt265 Controller Housing	1
B35	5056555	Bnt265 Display	1
B36	5056552	Bnt265 Controller Cover	1

Control Valve Exploded View



See parts listing on next page (13)

Control Valve Parts List

Item No.	PartNo.	Part Description	Quantity
A01	05056087	Screw -M 5 X12 (Hexagon)	3
A02	05056088	Screw -M 5 X16 (Hexagon with Washer)	2
A03	05056047	End Plug Retainer	1
A04	05010081	Bn65 Piston Rod	1
A05	05056097	Piston Pin	1
A06	05056023	End Plug	1
A07	05056070	Quad Ring	2
A08	05056024	End Plug Washer	1
A09	05056022	Piston Retainer	1
A10	05056181	Piston (Electric)	1
A11	05056104	Muffler	1
A12	05056021	Spacer	4
A13	05056073	Seal	5
A14	05056019	Bn65 Valve Body	1
A15	05056063	O-ring- $\phi 78.74 \times 6.33$	1
A16	05056129	O-ring- $\phi 23 \times 3$	4
A17	05056025	Adaptor Coupling	2
A18	05056044	Adaptor Clip	2
A19	05056090	Screw -ST4.2 X13 (Hexagon with Washer)	2
A20	21709003	Secure Clip	2
A21	05056140	Valve Connector	1
A22	05056065	O-ring- $\phi 23.6 \times 2.65$	2
A23	21319006	Screw Adaptor	2
A24	26010103	O-ring- $\phi 25 \times 3.55$	1
A25	07060007	Valve Bottom Connector	1
A26	13000426	Screw -ST2.9 X13 (Large Washer)	2
A27	05056038	Drain Fitting	1
A28	26010003	O-Ring- $\phi 18 \times 2.65$	1
A29	05056036	DLFC Button Retainer	1
A30	05056079	O-Ring- $\phi 15 \times 0.8$	1
A31	05056143	DLFC -2#	1
A32	05056035	BLFC Button Retainer	1
A33	05056191	BLFC -2#	1
A34	05056138	O-Ring- $\phi 14 \times 1.8$	1
A35	05056100B	BLFC Fitting	1
A36	05056106	Brine Line Screen	1
A37	05056107	BLFC Tube Insert	1
A38	05056033	BLFC Ferrule	1
A39	05056108	BLFC Fitting Nut	1
A40	05056086	Screw -M 5 X30 (Hexagon with Washer)	2
A41	05056029	Injector Cover	1
A42	05056072	O-Ring- $\phi 24 \times 2$	1
A43	05056103	Injector Screen	1
A44	05056027	Injector Nozzle	1
A45	05056028	Injector Throat	1
A46	05056177	Injector Body	1
A47	05056075	Injector Seat	1
A48	05056134	O-Ring- $\phi 12 \times 2$	1
A49	05056054	Injector Stem	1
A50	05056031	Injector Spacer	1
A51	05056081	O-Ring- $\phi 12.5 \times 1.8$	1
A52	05056030	Injector Cap	1
A53	05056093	Injector Screen	1
A54	05010049	Special Washer	1
A55	05056105	Retaining Ring	1
A56	05056067	O-Ring- $\phi 7.8 \times 1.9$	2
A57	05056037	Ar Disperser	1
A58	05056066	O-Ring- $\phi 11 \times 2$	1

Trouble Shooting

Issue	Possible Cause	Possible Solution
A. Unit fails to initiate a regeneration cycle.	1. No power supply.	Check electrical service, fuse, etc.
	2. Defective circuit board.	Replace faulty parts.
	3. Power failure.	Reset time of day.
B. Water is hard.	1. By-pass valve open.	Close by-pass valve.
	2. Out of salt.	Add salt to tank.
	3. Plugged injector / screen.	Clean parts.
	4. Flow of water blocked to brine tank.	Check brine tank refill rate.
	5. Hard water in hot water tank.	Repeat flushing of hot water tank required.
	6. Leak between valve and central tube.	Check if central tube is cracked or o-ring is damaged. Replace faulty parts.
	7. Internal valve leak.	Replace valve seals, spacer, and piston assembly.
C. Salt use is high.	1. Refill time is too high.	Check refill time setting.
D. Low water pressure.	1. Iron or scale build up in line feeding unit.	Clean pipes.
	2. Iron build up inside valve or tank.	Clean control and add resin cleaner to clean bed. Increase regeneration frequency.
	3. Inlet of control plugged due to foreign material.	Remove piston and clean control valve.
E. Resin in drain line.	1. Air in water system.	Check well system for proper air eliminator control.
	2. Incorrect drain line flow control (DLFC) button.	Check for proper flow rate.
F. Too much water in brine tank.	1. Plugged injector or screen.	Clean parts.
	2. Valve not regenerating.	Replace circuit board, motor, or control.
	3. Foreign material in brine valve.	Clean parts.
G. Unit fails to draw brine.	1. Drain line flow control is plugged.	Clean parts.
	2. Injector or screen is plugged.	Clean parts.
	3. Inlet pressure too low.	Increase pressure to 25 PSI.
	4. Internal valve leak.	Replace seals, spacers, and piston assembly.
H. Valve continuously cycles.	1. Defective position sensor PCB.	Replace faulty parts.
I. Flow to drain continuously.	1. Valve settings incorrect.	Check valve settings.
	2. Foreign material in control valve.	Clean control.
	3. Internal leak.	Replace seals, spacers, and piston assembly.

Manufacturers Warranty

Canature North America Inc. warrants that your control valve is built of quality material and workmanship. When properly installed and maintained, it will give years of trouble free service.

Five Year Complete Parts Warranty:

Canature North America Inc. will replace any part which fails within 60 months from date of manufacture, as indicated by the serial number, provided the failure is due to a defect in material or workmanship. The only exception shall be when proof of purchase or installation is provided and then the warranty period shall be from the date thereof.

General Provisions:

Canature North America Inc. assumes no responsibility for consequential damage, labour or expense incurred as a result of a defect or for failure to meet the terms of this warranty because of circumstances beyond its control.

