AQT-56

POWERFLO SERIES



SERVICE MANUAL

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Product Check List

Products series check		
□ AQT-56ST (Softener timer)	AQT-56SM (Softener timer)	AQT-56FT (Filter timer)
AQT-56FM (Filter meter)		
Other Model:		
Electric motor		
□ 110V/60Hz	□ 220V/50Hz	220V/60Hz
□ 24V/60Hz 220V/60Hz	□ Other Model:	
Flow Meter		
□ 2100 Gallon/Plastic (8T)	□ 120v/60Hz	□220v/60z
Yoke		
□ 3/4" NPT Plastic	□ 1" NPT plastic	
Injector nozzle/throat		
□ #0 Red	□ #1 Natural	□#2 Blue
□ #3 Yellow		
B.L.F.C		
□ 0.125 GPM	□ 0.25 GPM	□ 0.5 GPM
D.L.F.C		
□ 1.2 GPM	□ 1.5 GPM	□ 2.0 GPM
□ 2.4 GPM	□ 3.0 GPM	□ 3.5 GPM
□ 4.0 GPM	□ 5.0 GPM	
Piston & Valve Position Dial		
□ Standard	LW (Low Water)	□ Filter (for Filter Valve Only)
Power Cord & Plug		
□ CN	□US	□UK
□ EU	□ JP	□ Other:
Input Power:		

Parts chosen will be installed into the valve as default.

General Residential

Installation Check List

Water Pressure	Minimum 25 PSI
Electrical Supply	Uninterrupted AC. Check voltage compatibility
Existing	Free of any deposits or build-ups inside pipes
Softener	Locate close to drain and connect according to plumbing codes
Bypass Valves	Always provide for bypass valve if unit is not equipped with one

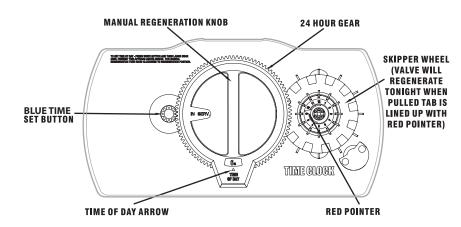
CAUT	TION
	Do not exceed 120 PSI water pressure
	Do not exceed 100°F water temperature
WARNING	Do not subject unit to freezing conditions

General Valve Installation Procedure

Note: Install the water softener with the inlet, outlet and drain connections made according to manufacturer's recommendations and to meet applicable plumbing codes.

- 1. Locate the softener tank close to a drain where you wish to install the unit. Note: Be sure the tank is level and on a firm base.
- 2. 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).
- 3. Cut the 1" distributor tube (1.050 O.D.) flush with top of each tank. Note: Only use silicone lubricant.
- 4. Lubricate the distributor O-ring seal and tank O-ring seal. Screw the valve on to the tank.
- 5. Use only Teflon tape on the drain fitting. 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 solder joints when soldering pipes that are connected to the valve. Failure to do this could cause damage to the valve.
- 6. Be sure the floor under the brine tank is clean and level.
- 7. Add water until there is 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 brine tank. Do not add salt to the brine tank at this time.
- 8. On units with a bypass, place in Bypass position.
 - Turn on the main water supply.
 - 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.
- 9. Place the bypass in the 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.
- 10. Plug the valve into an approved power source

Installation & Start-Up Procedure



Model: AQT-56ST

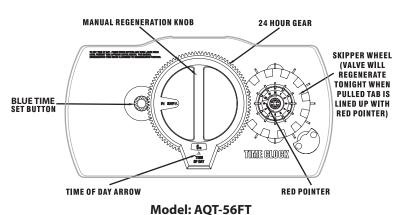
- Manually index the softener control into the In Service position and let water flow into the resin tank. When the water flow stops, open a softened water tap until all air is released from the lines. Then close tap.
 Note: Manually dial the various regeneration positions by turning the knob on the front of the control until the indicator shows that the softener is in the desired position.
- 2. Manually index the control to the Backwash position and allow water to flow at the drain for 3 or 4 minutes.
- 3. Remove back cover plate.
- 4. Make sure that the salt dosage is set as recommended by the manufacturer. If necessary, set salt according to the setting instruction sheet. Manually index the control to the Brine Fill position and allow the brine tank to fill to the top of the air check.
- 5. Manually index the control to the Brine Draw position and allow the control to draw water from the brine tank until it stops.
- 6. Plug in the electrical cord and look in the sight hole in the back of the motor to see that it is running. Set the days that regeneration is to occur by sliding tabs on skipper wheel upward.
 - Each tab is one day.
 - Finger at red pointer is tonight.
 - Moving clockwise from red pointer, pull or push fingers to obtain the desired regeneration schedule.
- 7. Manually advance the control to the beginning of the Brine Fill position and allow the control to return to the In Service position automatically.
- 8. Fill the brine tank with salt.
- 9. Replace back cover on the control.
- 10. Make sure that any bypass valving is left in the normal In Service position.

Softeners	Hardness PPM (GPG)	17-85 (1-5)					428-513 (26-30)										1283-1368 (76-80)
	No. Of Persons				Calen	der Clo	ck Reg	enerati	ons Fre	equency	y - No.	Of Tab	Pull Up	owards			
	2	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3
	3	1	1	2	2	3	3	3	3	3	3	4	4	4	4	4	4
	4	1	2	2	2	3	3	3	4	4	4	6	6	6	6	6	6
	5	2	2	3	3	4	4	4	4	6	6	6	6	12	12	12	12
	6	2	2	3	3	4	4	4	6	6	6	6	12	12	12	12	12
	7	2	3	3	4	4	6	6	6	12	12	12	12	12	12	12	12
	8	2	3	3	4	6	6	6	6	12	12	12	12	12	12	12	12
	9	3	3	4	4	6	6	12	12	12	12	12	12	12	12	12	12
	10	3	4	4	6	6	12	12	12	12	12	12	12	12	12	12	12

Softener Timer Regeneration Reference Chart

AQT-56FT Meter Filter Valve

Start-up Procedures



Before Plugging in the Unit

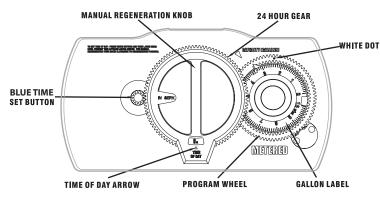
- 1. Open a treated water tap down stream of the filter.
- Manually index the filter to the In Service position and allow the mineral tank to fill by slowly opening the main water supply valve. Any bypass should be in the In Service position. Note: The water flowing from the downstream tap is cloudy and/or contains media fines as well as air. Allow the water to run until it appears clean and free of air.
- 3. When a steady clean flow appears at the tap, close the tap and the main water supply valve and allow the filter media bed to settle for 15–20 minutes.
- 4. Manually index the filter to the Backwash position.
- 5. To prevent a sudden surge of water and air, partially open the main water supply valve so that the flow at the drain of the filter is approximately 1 gpm (3.7 Lpm). The water at the drain is cloudy again and/or contains media fines as well as air. Allow water to flow at the drain until it appears clean and free of air.
- 6. Continue to open the water supply valve until it is completely open. Allow water to flow at the drain until all media fines are washed out of the filter.
- 7. Manually index the filter to the In Service position, and again open the downstream tap. Check to be sure that the water flows clear. If necessary, allow water to flow until all media fines are gone. If the tap is equipped with an aerator check that is not plugged with media fines and pipe scale.
- 8. Plug in the electrical cord and look in the sight hole in the back of the motor to see that it is running. Set the days that regeneration is to occur by sliding tabs on skipper wheel upward.
 - Each tab is one day.
 - Finger at red pointer is tonight.
 - Moving clockwise from red pointer, pull or push fingers to obtain the desired regeneration schedule.
- 9. Set time of day by pushing blue button and spin the 24-hour gear until the present time of day is visible above the time of day arrow

						-											
Sand Filter	Sediment Turbidity			Mild				,	Average	е				Extr	eme		
Activated Carbon Filters	Taste Odor			Mild				,	Average	e				Extr	eme		
	PPM IronX1 PPM ManganeseX1 PPM SulphurX1	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
	No. Of Persons				Calen	der Clo	ck Reg	enerati	ons Fre	quency	y - No.	Of Tab	Pull Up	owards			
	2	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3
	3	1	1	2	2	3	3	3	3	3	3	4	4	4	4	4	4
	4	1	2	2	2	3	3	3	4	4	4	6	6	6	6	6	6
	5	2	2	3	3	4	4	4	4	6	6	6	6	12	12	12	12
	6	2	2	3	3	4	4	4	6	6	6	6	12	12	12	12	12
	7	2	3	3	4	4	6	6	6	12	12	12	12	12	12	12	12
	8	2	3	3	4	6	6	6	6	12	12	12	12	12	12	12	12
	9	3	3	4	4	6	6	6	12	12	12	12	12	12	12	12	12
	10	3	4	4	6	6	12	12	12	12	12	12	12	12	12	12	12

Filter Timer Regeneration Reference Chart

AQT-56SM Meter Control Valve

Start-Up Procedure



Model: AQT-56SM

- Manually index the softener control to the In Service position and let water flow into the resin tank. When the water flow stops, open a softened water tap until all air is released from the lines. Then close tap.
 Note: The various regeneration positions may be dialed manually by turning the knob on the front of the control until the indicator shows that the softener is in the desired position.
- 2. Set water usage program wheel :Calculate the gallon capacity of the system by dividing the system capacity by the raw water hardness. Next subtract the necessary reserve requirement by multiplying the number of people in the house by 75 gallons (1 US gallon=3.785 L) per day. Set the gallons available at the small white dot on program wheel gear. The capacity arrow denotes remaining gallons exclusive of fixed reserve. The table below is also a quick reference to determine the gallons used before each regeneration.
- 3. Rotate program wheel counterclockwise until it stops at Regeneration position.
- 4. Manually index the control to the Backwash position and allow water to flow at the drain for 3 or 4 minutes.
- 5. Remove back cover plate.
- 6. Make sure than the salt dosage is set as recommended by the manufacturer. Manually index the control to the Brine Fill position and allow the brine tank to fill to the top of the air check.
- 7. Manually index the control to the Brine Rinse position and allow the control to draw water from the brine tank until it stops.
- 8. Plug in the electrical cord and look in the sight hole in the back of the motor to see that it is running.
- 9. Manually advance the control to the beginning of the Brine Fill position and allow the control to return to the In Service position automatically.
- 10. Fill the brine tank with salt.
- 11. Replace back cover on the control. Be sure cable is not pinched between cover and housing.
- 12. Make sure that any bypass valving is left in the normal In Service position.

Softener Meter Capacity Reference Chart (Gallons)

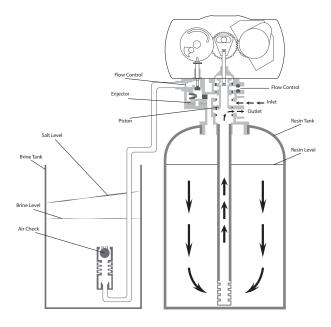
Capacity	/ 18 000			Har	dness PPN	/I (GPG)			Canacit	y 30,000			Hard	ness PPM	(GPG)		
oupdoily	10,000	85(5)	171(10)	256(15)	342(20)	513(30)	684(40)	855(50)	oupdon	y 00,000	85(5)	171(10)	256(15)	342(20)	513(30)	684(40)	855(50)
	1	2,100	1,725	1,125	825	525	375	285		1	2,100	2,100	1,925	1,425	925	675	525
	2	2,100	1,650	1,050	750	450	300	210		2	2,100	2,100	1,850	1,350	850	600	450
No. Of	3	2,100	1,575	975	675	375	225	135	No. Of	3	2,100	2,100	1,775	1,275	775	525	375
Persons	4	2,100	1,500	900	600	300	150	60	Persons	4	2,100	2,100	1,700	1,200	700	450	300
	5	2,100	1,425	825	525	225	75	0		5	2,100	2,100	1,625	1,125	625	375	225
	6	2,100	1,350	750	450	150	0	0		6	2,100	2,100	1,550	1,050	550	300	150
		Hardness PPM (GPG)															
Canacity	/ 24 000			Haro	dness PPN	I (GPG)			Canacit	v 36.000			Hard	ness PPM	(GPG)		
Capacity	/ 24,000	85(5)	171(10)	Haro 256(15)	dness PPN 342(20)	(GPG) 513(30)	684(40)	855(50)	Capacit	y 36,000	85(5)	171(10)	Hardr 256(15)	ness PPM 342(20)	(GPG) 513(30)	684(40)	855(50)
Capacity	/ 24,000	85(5) 2,100	171(10)			(/	684(40) 525	855(50) 405	Capacit	y 36,000	85(5) 2,100	171(10)			()	684(40) 825	855(50) 645
Capacity	24,000 1 2			256(15)	342(20)	513(30)			Capacit	y 36,000	/		256(15)	342(20)	513(30)		
Capacity No. Of	24,000 1 2 3	2,100	2,100	256(15) 1,525	342(20) 1,125	513(30) 725	525	405	Capacit	1	2,100	2,100	256(15) 2,100	342(20) 1,725	513(30) 1,125	825	645
	24,000 1 2 3 4	2,100 2,100	2,100 2,100	256(15) 1,525 1,450	342(20) 1,125 1,050	513(30) 725 650	525 450	405 330		1 2 3	2,100 2,100	2,100 2,100	256(15) 2,100 2,100	342(20) 1,725 1,650	513(30) 1,125 1,050	825 750	645 570
No. Of	24,000 1 2 3 4 5	2,100 2,100 2,100	2,100 2,100 2,100	256(15) 1,525 1,450 1,375	342(20) 1,125 1,050 975	513(30) 725 650 575	525 450 375	405 330 255	No. Of	1 2 3	2,100 2,100 2,100	2,100 2,100 2,100	256(15) 2,100 2,100 2,100	342(20) 1,725 1,650 1,575	513(30) 1,125 1,050 975	825 750 675	645 570 495

Softener Meter Capacity Reference Chart (Liters)

Capacity	18,000								Capacity	30,000			-				
	-																
	1	555	456	297	218	139	99	75	1 1	1	555	555	509	376	244	178	139
	2	555	436	277	198	119	79	55		2	555	555	489	357	225	159	119
No. Of	3	555	416	258	178	99	59	36	No. Of	3	555	555	469	337	205	139	99
Persons	4	555	396	238	159	79	40	16	Persons	4	555	555	449	317	185	119	79
	5	555	376	218	139	59	20	0		5	555	555	429	297	165	99	59
Capacity	6	555	357	198	119	40	0	0	Canacity	6	555	555	410	277	145	79	40
Capacity		555	357	198	119	40	0	0	Capacity	,	555	555	410	277	145	79	40
Capacity									Capacity	,							40
Capacity		555 555 555	357 555 555	198 403 383	119 297 277	40 192 172	0 139 119	0 107 87	Capacity	,	555 555	555 555	410 555 555	277 456 436	145 297 277	79 218 198	170
Capacity No. Of	y 24,000 1	555	555	403	297	192	139	107	Capacity No. Of	36,000 1	555	555	555	456	297	218	40 170 151 131
	y 24,000 1 2	555 555	555 555	403 383	297 277	192 172	139 119	107 87 67		36,000 1 2	555 555	555 555	555 555	456 436	297 277	218 198	170
No. Of	y 24,000 1 2 3	555 555 555	555 555 555	403 383 363	297 277 258	192 172 152	139 119 99	107 87 67	No. Of	1 2 3	555 555 555	555 555 555	555 555 555	456 436 416	297 277 258	218 198 178	170 151 131

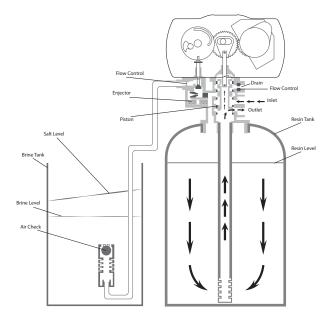
Water Conditioner

Flow Diagrams



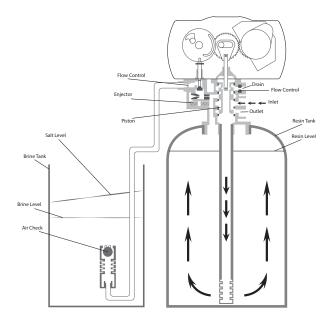
1) Service Position

Hard water enters unit at valve inlet and flows down through the mineral in the mineral tank. Conditioned water enters center tube through the bottom distributor, then flows up through the center tube, around the piston, and out the outlet of the valve.



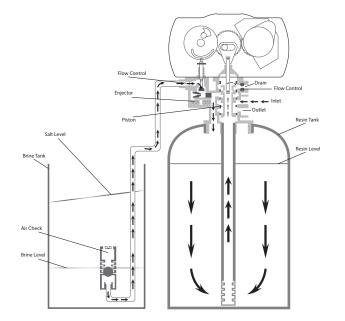
2) Preliminary Rinse Position

Slow rinse of the resin bed. Water flows down through the resin bed, up the bottom distributor and out the drain.



3) Backwash Position

Hard water enters unit at valve inlet, flows through piston, down center tube, through bottom distributor, up the through the mineral, around the piston and out the drain line. Water is passed through the resin bed in the opposite direction of normal flow, which flushes suspended matter out of the resin tank. Backwashing also loosens the resin bed which becomes compacted during the softening (in service) cycle.

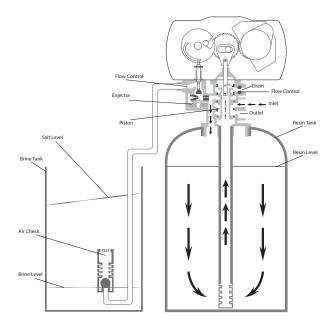


4) Brine Position (Softeners Only)

Hard water enters unit at valve inlet, flows up into injector housing and down through nozzle and throat to draw brine from the brine tank, brine flows down through mineral and enters the center tube through the bottom distributor and out through the drain line. The resin beads are washed with the strong solution of salt water which is called the brine solution. Since the resin beads prefer calcium and magnesium ions.

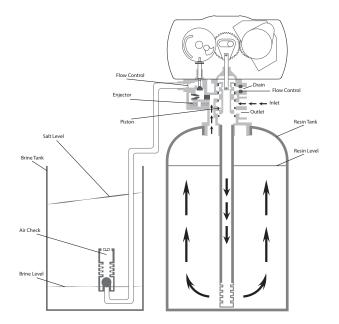
Water Conditioner

Flow Diagrams



5) Slow Rinse Position (Softeners Only)

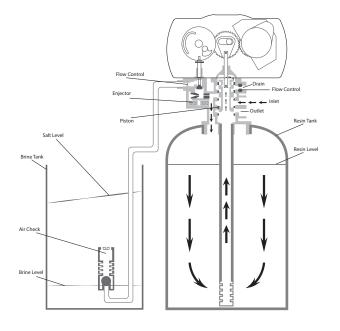
After all the brine has been drawn from the brine tank, hard water continues to enter through the valve inlet, flows around the lower piston groove and through the nozzle and throat, down through the resin and into the distributor, then up through the center tube, at last through the center hole in the piston and out the drain.



6) Rapid Rinse Position (Second Backwash Position)

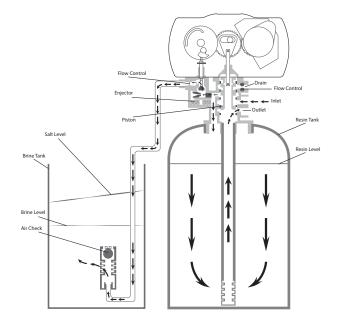
The resin bed rinsed to remove excess brine solution from the tank and the resin beads are the ready to produce soft water again. Hard water enters unit at valve inlet, flows through piston, down center tube, through bottom distributor, and up through the mineral, around the piston and out the drain line.

Flow Diagrams



7) Settling Rinse Position

Slow rinse of the resin bed. Water flows down through the resin bed up the bottom distributor and out the drain.



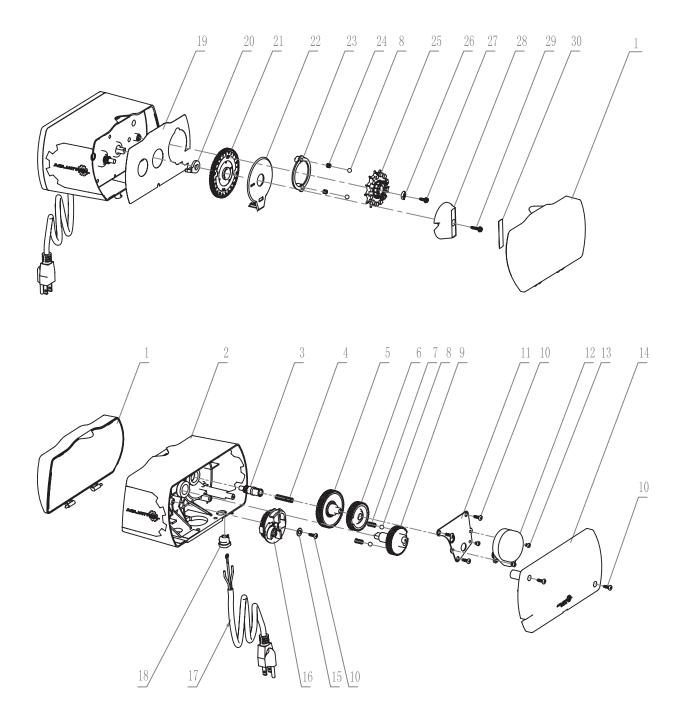
8) Brine Tank Fill Position (Softeners Only)

Hard water enters unit at valve inlet, flows up through the injector housing, through the brine valve to refill the brine tank. Valve is now delivering soft water to the home. Raw water is refilling the brine tank to make brine solution for the next regeneration.

Note: Regeneration

When the valve is in regeneration, raw water is being passed to service until rapid rinse is complete.

AQT-56ST Time Control Valve Drive Assembly

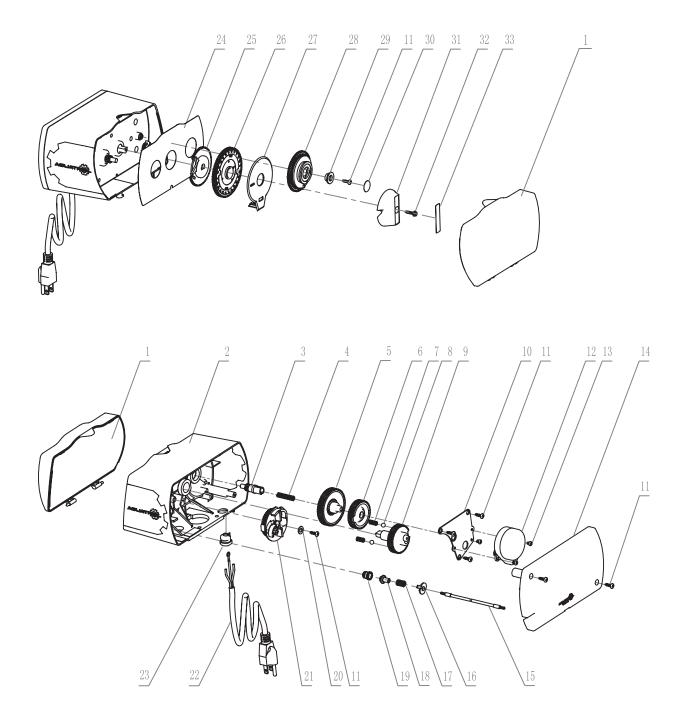


	Item No.	Quantity	Part No.	Description
	1	1	A-15613	Front Cover
	2	1	A-S0001	Housing Assembly
	3	1	A-13018	Idler Pointer
	4	1	A-13312	Spring Idler
	5	1	A-13017	Idler Gear
	6	1	A-13164	Drive Gear
	7	2	A-14457	Spring, Detent, Main Gear
	8	4	A-13300	Ball
	9	1	A-13170	Main Gear and Shaft
	10	6	A-13296	Screw
	11	1	A-15650	Motor Mounting Plate
*	12	1		Motor
	13	3	A-11384	Screw, Motor mtg. and Ground wire
	14	1	A-15614	Back Cover
	15	1	A-12037	Washer
	16	1	A-60514-01	Brine Cam Assembly, 7-30 lbs
		1	A-66114	Brine Cam Assembly, 4-6 kg
		1	A-60514	Brine Cam Assembly, 3.5-15 lbs
*	17	1		Electrical Cord
	18	1	A-13547	Strain Relief
	19	1	A-15678	Front Label
	20	1	A-13011	Cycle Actuator Gear
	21	1	A-19205	24-hour Gear Assembly, Silver
	22	1	A-16715	Vale Position Dial, Filter
		1	A-14176	Vale Position Dial, Standard
	23	1	A-13864	Skipper Wheel Ring
	24	2	A-13311	Spring, Detent, Skipper Wheel
	25	1	A-14381	Skipper Wheel Assembly, 12-Day
	26	1	A-13014	Regeneration Pointer
	27	1	A-02107	Screw, Skipper Wheel Assembly
	28	1	A-14177	Knob, Manual Regeneration
	29	1	A-15151	Screw
	30	1	A-15677	Knob Label

* For more options please refer to Page 3

Valve Drive Assembly



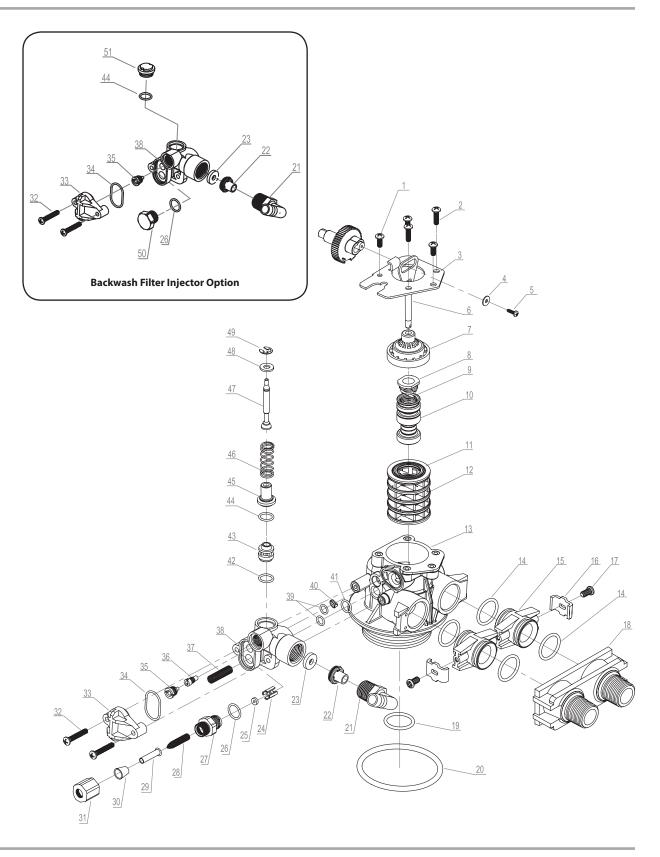


	Item No.	Quantity	Part No.	Description
	1	1	A-15613	Front Cover
	2	1	A-S0001	Housing Assembly
	3	1	A-13018	Idler Pointer
	4	1	A-13312	Spring Idler
	5	1	A-13017	Idler Gear
	6	1	A-13164	Drive Gear
	7	2	A-14457	Spring, Detent, Main Gear
	8	2	A-13300	Ball
	9	1	A-13170	Main Gear and Shaft
	10	1	A-15650	Motor Mounting Plate
	11	7	A-13296	Screw
*	12	1		Motor
	13	3	A-11384	Screw, Motor mtg. and Ground Wire
	14	1	A-15614	Back Cover
	15	1	A-14043	Cable Assembly
	16	1	A-14253	Spring Retainer
	17	1	A-14276	Spring
	18	1	A-13831	Clutch, Drive Pinion
	19	1	A-56206	Drive Pinion, Program Wheel
	20	1	A-12037	Washer
	21	1	A-60514-01	Brine Cam Assembly, 7-30lbs
		1	A-66114	Brine Cam Assembly, 4-6kg
		1	A-60514	Brine Cam Assembly, 3.5-15lbs
*	22	1		Electrical Cord
	23	1	A-13547	Strain Relief
	24	1	A-15679	Front Label
	25	1	A-13802	Cycle Actuator Gear
	26	1	A-19205	24-hour Gear Assembly, Silver
	27	1	A-15478	Valve Position Dial, Filter
		1	A-14176	Valve Position Dial, Standard
	28	1	A-A0007	Program Skipper Wheel Assembly, 10600gal
		1	A-A0006	Program Skipper Wheel Assembly, 2100gal
	29	1	A-13806	Program Wheel Retainer
	30	1	A-13953	Cover Label
	31	1	A-14177	Knob, Manual Regeneration
	32	1	A-15151	Screw, Knob
	33	1	A-15677	Knob Label

* For more options please refer to Page 3

Control Valve

Assembly



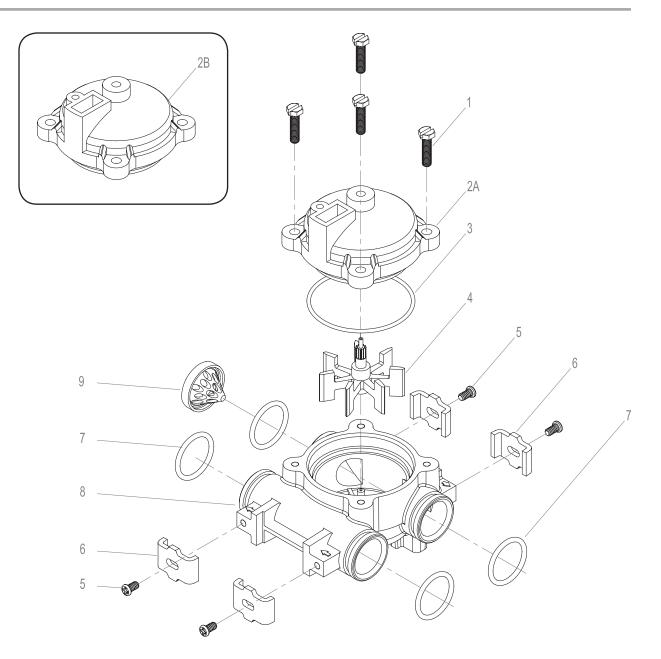
Control Valve

Assembly Parts List

	Item No.	Quantity	Part No.	Description
	1	3	A-02001	Screw
	2	2	A-02002	Screw-Drive Retainer
	3	1	A-13546	End Plug Retainer
	4	1	A-13363	Washer
	5	1	A-13296	Screw
	6	1	A-13001	Piston Rod Assembly
	7	1	A-13446	End Plug Assembly
	8	1	A-12953	Piston Retainer
	9	1	A-10696	Piston Pin
	10	1	A-13852	Piston, Filter
		1	A-13247	Piston, Softener
	11	5	A-13242	Seal
	12	4	A-14241	Spacer
	13	1	A-61400-12	Valve Body Assembly
	14	4	A-13305	O-ring, Adapter Coupling
	15	2	A-19228	Adapter Coupling
	16	2	A-13255	Adapter Clip
	17	2	A-13314	Screw, Adapter Coupling
*	18	1		Yoke, Plastic
	19	1	A-13304	O-ring, Distributor Tube
	20	1	A-12281	O-ring, Top of Tank
	21	1	A-13308	Brine House Barb, Straight
		1	A-56011	Brine House Barb, 90 Elbow
	22	1	A-13173	DLFC Button Retainer Assembly
*	23	1		DLFC Button
	24	1	A-13245	BLFC Button Retainer
*	25	1		BLFC Button
	26	1	A-12977	O-ring, BLFC
	27	1	A-13244	BLFC Fitting
	28	1	A-12767	Screen, Brine Line
	29	1	A-10332	BLFC Tube Insert
	30	1	A-10330	BLFC Ferrule
	31	1	A-10329	BLFC Fitting Nut
	32	2	A-13315	Screw Injector Mounting
	33	1	A-13166	Injector Cover
	34	1	A-13303	O-ring, Injector Cover
*	35	1		Injector Nozzle
*	36	1		Injector Throat
	37	1	A-10227	Screen, Injector
	38	1	A-13163	Injector Body
	39	2	A-13301	O-ring Injector
	40	1	A-13497	Air Disperser
	41	1	A-12638	O-ring, Drain
	42	1	A-13302	O-ring
	43	1	A-13167	Brine Valve Spacer
	44	1	A-01003	O-ring, Brine Valve
	45	1	A-13165/A-12550	Brine Valve Cap Assembly
	46	1	A-11973	Spring, Brine Valve
	47	1	A-13172/A-12626	Brine Piston Assembly
	48	1	A-16098	Washer, Brine Valve
	49	1	A-11981-01	Retaining Ring
	50	1	A-13918	BLFC, Plug
	51	1	A-13857	Brine Valve,Plug

* For more options please refer to Page 3

Meter Assembly And Parts List



Item No.	Quantity	Part No.	Description
1	4	A-02082	Screw
2A	1	A-66120A	Meter Cover Assembly, 10600gal
2B	1	A-66120B	Meter Cover Assembly, 2100gal
3	1	A-13847	O-ring, Meter Cover Assembly
4	1	A-12204A	Impeller
5	4	A-13314	Screw, Adapter Clip
6	4	A-13255	Adapter Clip
7	4	A-13305	O-ring, Meter Body
8	1	A-12201	Meter Body
9	1	A-14613	Flow Straightener

NOTES:

