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## Job Specification Sheet

Job Number:		
Model Number:		
Water Hardness (softener):		
Capacity Per Unit:		
Tank Size:		
Salt Setting Per Regeneration:		
Controller Type:		
□ Time Clock	□ Meter Delayed	
B.L.F.C		
□ 0.125 GPM	□ 0.25 GPM	
□ 0.5 GPM	□ 1.0 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	
Injector Size:		

### **General Residential**

Installation Check List

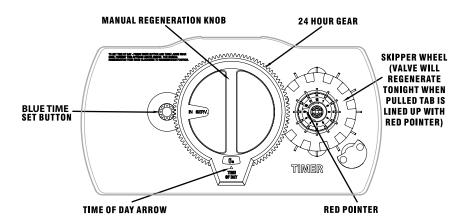
Water Pressure	Minimum 25 PSI
Electrical Supply	Uninterrupted AC. Check voltage compatibility
Existing	Free of any deposits or build-ups inside pipes
Softener	Locate close to drain and connect according to plumbing codes
Bypass Valves	Always provide for bypass valve if unit is not equipped with one

	CAUTION
	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 3/4" 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



#### 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 outward.
  - Each tab is one day.
  - Finger at red pointer is tonight.
  - Moving clockwise from red pointer, slide 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.

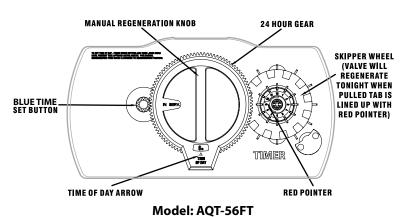
Softeners	Hardness PPM (GPG)	17-85 (1-5)					428-513 (26-30)										
	No. Of Persons				Calend	der Clo	ck Reg	enerati	ons Fre	quenc	y - No. (	Of Tab	Pull Up	owards			
	2	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3
	3	1	1	2	2	3	3	3	3	3	3	4	4	4	4	4	4
	4	1	2	2	2	3	3	3	4	4	4	6	6	6	6	6	6
	5	2	2	3	3	4	4	4	4	6	6	6	6	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**

NOTE: Regeneration for AQT-56ST will start at 2:00 am

#### **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 Outward.
  - Each tab is one day.
  - Finger at red pointer is tonight.
  - Moving clockwise from red pointer, slide 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

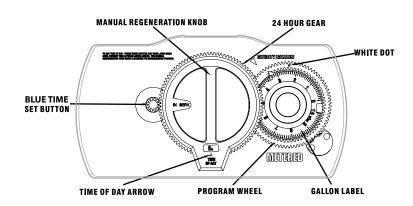
						•											
Sand Filter	Sediment Turbidity		Mild				Average				Extreme						
Activated Carbon Filters	Taste Odor			Mild				,	Averag	е				Extr	eme		
Iron Filters	PPM IronX1 PPM ManganeseX1 PPM SulphurX1	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
	No. Of Persons				Calen	der Clo	ck Reg	enerati	ons Fre	equency	/ - 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	з	4	4	6	6	12	12	12	12	12	12	12	12	12	12	12

#### **Filter Timer Regeneration Reference Chart**

NOTE: Regeneration for AQT-56FT will start at 12:00 am

#### **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.
- 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	Hardness PPM (GPG)							Canacit	v 30.000	Hardness PPM (GPG)							
oupdoily	101000	85(5)	171(10)	256(15)	342(20)	513(30)	684(40)	855(50)	oupuon	,	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	
									0		Hardness PPM (GPG)							
Canacity	/ 24 000			Harc	Iness PPN	(GPG)			Canacit	v 36.000			Hardr	ness PPM (	GPG)			
Capacity	/ 24,000	85(5)	171(10)		iness 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 1	85(5) 2,100	171(10)			· · ·	684(40) 525	855(50) 405	Capacit	y 36,000 1	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 1 2			256(15)	342(20)	513(30)			
Capacity No. Of	1	2,100	2,100	256(15) 1,525	342(20) 1,125	513(30) 725	525	405	Capacit No. Of	1	2,100	2,100	256(15) 2,100	342(20) 1,725	513(30) 1,125	825	645	
	1	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	2,100 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	1	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	2,100 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	

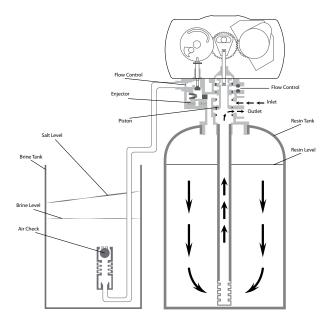
#### Softener Meter Capacity Reference Chart (Liters)

Capacity	/ 18.000								Capacity	30.000							
	1	555	456	297	218	139	99	75		1	555	555	509	376	244	178	139
	2	555	436	277	198	119	79	55	1	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
	6	555	357	198	119	40	0	0		6	555	555	410	277	145	79	40
Capacity	y 24,000																
									Capacity	36,000		1					r
	1	555	555	403	297	192	139	107	Capacity	36,000	555	555	555	456	297	218	170
	1	555 555	555 555	403 383	297 277	192 172	139 119	107 87	Capacity	1 2	555 555	555 555	555 555	456 436	297 277	218 198	170 151
No. Of	1 2 3								No. Of	1 2 3							
No. Of Persons	1 2 3 4	555	555	383	277	172	119	87		1 2	555	555	555	436	277	198	151
	1 2 3 4 5	555 555	555 555	383 363	277 258	172 152	119 99	87 67	No. Of	1 2	555 555	555 555	555 555	436 416	277 258	198 178	151 131

NOTE: Regeneration for AQT-56SM will start at 2:00 am

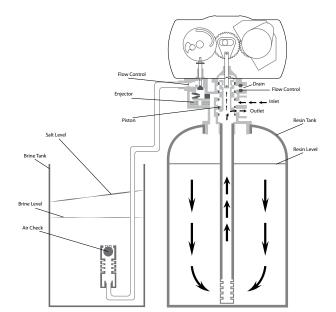
#### **Water Conditioner**

Flow Diagrams



#### 1) Service Position

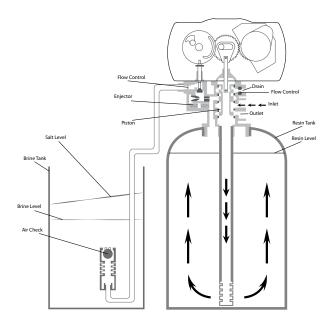
Hard water enters unit at valve inlet and flows down through the mineral in the mineral tank. Conditioned water enters center tube through the bottom distributor, then flows up through the center tube, around the piston, and out the outlet of the valve.



#### 2) Preliminary Rinse Position

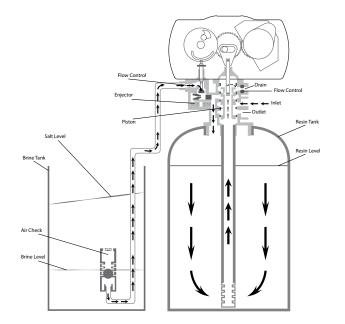
Slow rinse of the resin bed. Water flows down through the resin bed, up the bottom distributor and out the drain.

Flow Diagrams



#### 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.

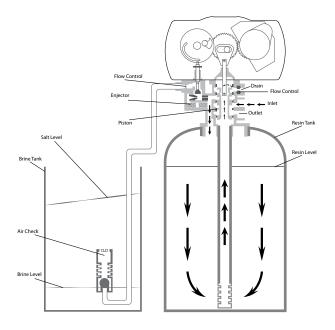


#### 4) Brine Position (Softeners Only)

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.

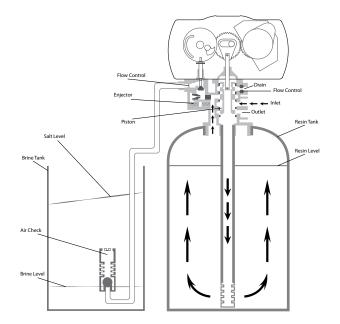
#### **Water Conditioner**

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.

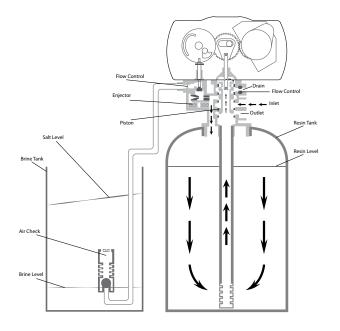


# 6) Rapid Rinse Position (Second Backwash Position)

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.

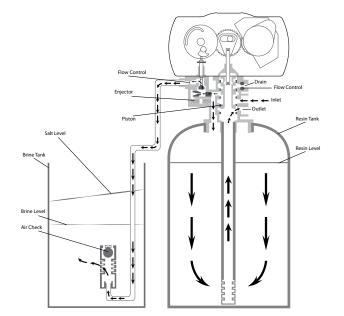
## Water Conditioner

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.



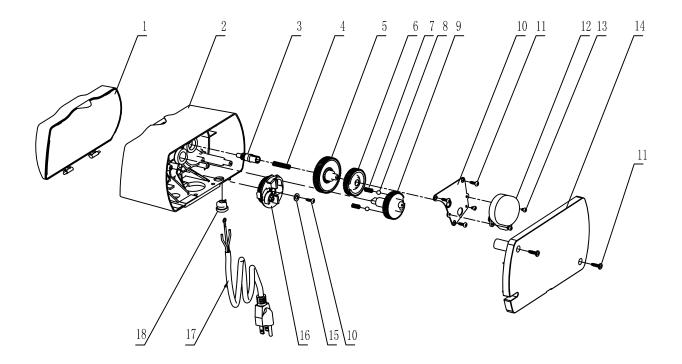
#### 8) Brine Tank Fill Position (Softeners Only)

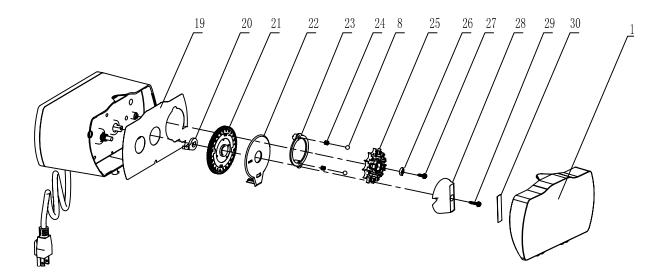
Hard water enters unit at valve inlet, flows up through the injector housing, through the brine valve to refill the brine tank. Valve is now delivering soft water to the home. Raw water is refilling the brine tank to make brine solution for the next regeneration.

#### **Note: Regeneration**

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

#### AQT-56ST/56FT Softener & Filter Timer Control Drive



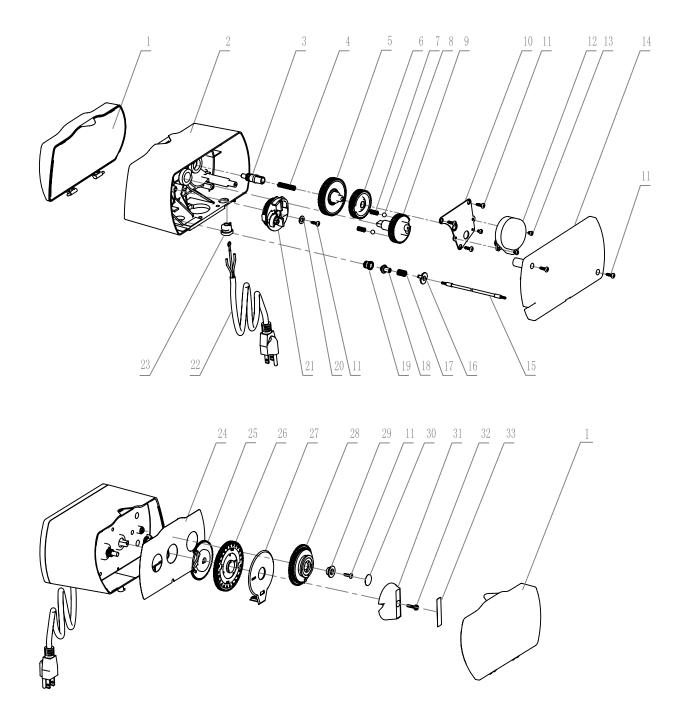


Valve Drive Assembly Parts List

Item No.	Quantity	Part No.	Description
1	1	A-15613	Front Cover
2	1	A-14448	Head Assembly
3	1	A-13018	Idler Pinion
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 1/4", SS
9	1	A-13170	Main Gear and Shaft
10	1	A-13175	Motor Mounting Plate
11	6	A-13296	Screw
12A	1	A-18743-1	Motor 110V, 60Hz
13	3	A-11384	Screw, Motor and Ground Wire
14	1	A-15614	Back Cover
15	1	A-12037	Washer Plain, #10, 18-8 SS
16	1	A-60514-01	Brine Cam Assembly, 7-30 lbs
	1	A-60514-02	Brine Cam Assembly, 4-6 kg
	1	A-60514-03	Brine Cam Assembly, 3.5-15 lbs
17	1	A-11842	Electrical Cord, Standard
18	1	A-13547	Strain Relief
19	1	A-15678-T	Front Label - Timer Blue
20	1	A-13011	Cycle Actuator Gear
21	1	A-19205	24-hour Gear Assembly, Silver
22	1	A-14176	Valve Position Dial, Standard
	1	A-16715	Valve Position Dial, Filter
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-13296	Screw, Skipper Wheel Assembly
28	1	A-14177	Knob, Manual Regeneration
29	1	A-15151	Screw, Knob
30	1	A-14207	Knob Aquatrol Label

Valve Drive Assembly

#### AQT-56SM Meter Control Valve Control Drive

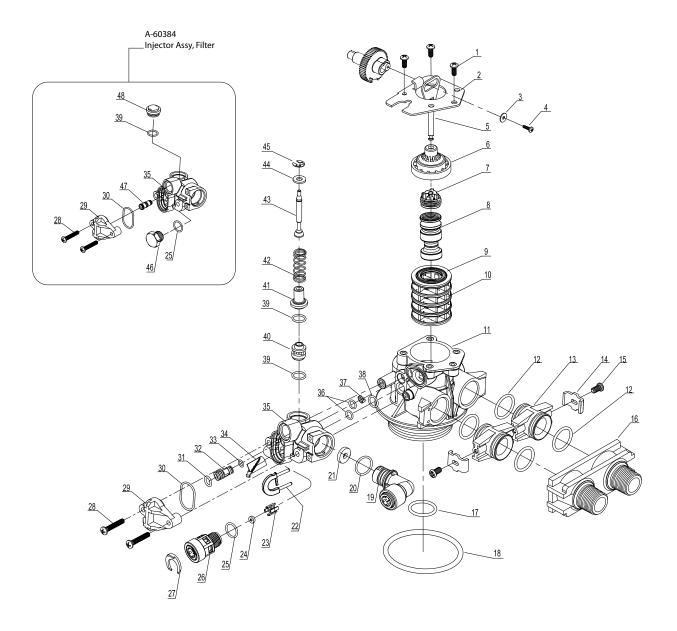


# **AQT-56SM Meter Control**

Valve Drive Assembly Parts List

Item No.	Quantity	Part No.	Description
1	1	A-15613	Front Cover
2	1	A-14448	Head Assembly
3	1	A-13018	Idler Pinion
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 1/4", SS
9	1	A-13170	Main Gear and Shaft
10	1	A-13175	Motor Mounting Plate
11	6	A-13296	Screw
12	1	A-18743-1	Motor 110V, 60Hz
13	3	A-11384	Screw, Motor and Ground Wire
14	1	A-15614	Back Cover
15	1	A-14043	Cable Assembly, Standard
16	1	A-14253	Spring Retainer
17	1	A-14276	Spring
18	1	A-13831	Clutch, Drive Pinion
19	1	A-13830	Drive Pinion, Program Wheel
20	1	A-12037	Washer
21	1	A-60514-01	Brine Cam Assembly, 7-30 lbs
	1	A-60514-02	Brine Cam Assembly, 4-6 kg
	1	A-60514-03	Brine Cam Assembly, 3.5-15 lbs
22	1	A-11842	Electrical Cord, Standard
23	1	A-13547	Strain Relief
24	1	A-15678-M	Front Label - Meter White
25	1	A-13011	Cycle Actuator Gear
26	1	A-19205	24-hour Gear Assembly, Silver
27	1	A-14176	Valve Position Dial, Standard
28	1	A-60405-2100	Program Skipper Wheel Assembly, 2100 gal
	1	A-60405-10600	Program Skipper Wheel Assembly, 10600 gal
29	1	A-13806	Program Wheel Retainer
30	1	A-13953	Cover Label, Program Wheel
31	1	A-14177	Knob, Manual Regeneration
32	1	A-15151	Screw, Knob
33	1	A-14207	Knob Aquatrol Label

# Valve Body Assembly

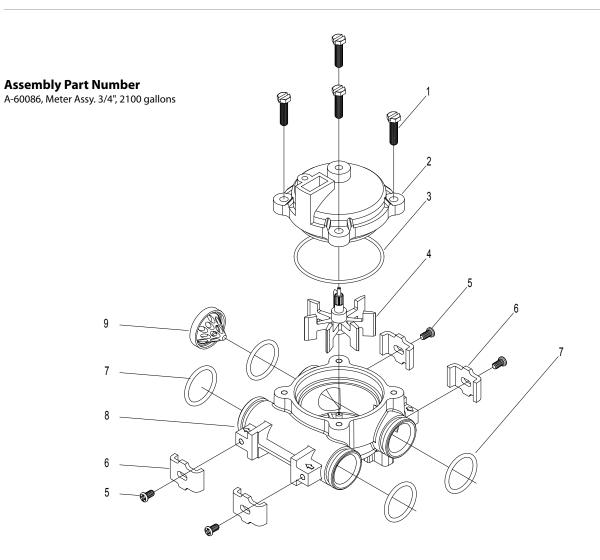


Item No.	Quantity	Part No.	Description
1	3	A-12112	Screw
2	1	A-13546	End Plug Retainer
3	1	A-13363	Washer
4	1	A-13296	Screw
5, 6, 7, 8	1	A-60102-20	Piston Softener & Filter
9, 10	1	A-60125	Seals (5) & Spacers (4) Assy.
11	1	A-61400-34	Valve Body Assembly, 3/4" Dist.
12	4	A-13305	O-ring, Adapter Coupling
13	2	A-19228	Adapter Coupling
14, 15	2	A-13255-FT	Kit Adaptor Clip for AQT-56 FT
	2	A-13255-ST	Kit Adaptor Clip for AQT-56 ST
	2	A-13255-SM	Kit Adaptor Clip for AQT-56 SM
16	1	A-187706	Yoke, Plastic, 1"
	1	A-187706-02	Yoke, Plastic, 3/4"
17	1	A-13304	O-ring, Distributor Riser Tube
18	1	A-12281	O-ring, Top of Tank
19	1	A-56247	Drain, Quick Connector, Elbow, 1/2" Tubing
20	1	A-01019	O-ring, DLFC
21*	1	A-120XX	DLFC Button
22	1	A-50011	Locking Clip, Drain QC
23	1	A-13245	BLFC Button Retainer
24**	1	A-120XX	BLFC Button
25, 26, 27	1	A-13244	Brine Line Quick Connector 3/8" Tubing
28	2	A-13315	Screw
29	1	A-13166	Injector Cover
30	1	A-13303	O-ring, Injector Cover
31	1	A-01002	O-ring, Injector (Included w/ Injector)
32***	1	A-10225-X-N	Injector
33	1	A-01017	O-ring, Injector (Included w/ Injector)
34	1	A-56226	Screen, Injector
35	1	A-13163	Injector Body
36	2	A-13301	O-ring
37	1	A-13497	Air Disperser
38	1	A-12638	O-ring
39 - 45	1	A-60032	Brine Valve Assy
46	1	A-13918	BLFC Plug
47	1	A10913BLK-02	Injector Black Capped
48	1	A-13857	Brine Valve Plug

utton Options
DLFC Button - 1.2 gpm
DLFC Button - 1.5 gpm
DLFC Button - 2.0 gpm
DLFC Button - 2.4 gpm
DLFC Button - 3.0 gpm
DLFC Button - 3.5 gpm
DLFC Button - 4.0 gpm
DLFC Button - 5.0 gpm

** BLFC Button Options				
A-12093	BLFC Button - 0.125 gpm			
A-12094	BLFC Button - 0.25 gpm			
A-12095	BLFC Button - 0.5 gpm			
A-12097	BLFC Button - 1.0 gpm			
*** Injectors				
A-10225-0-N	Injector Assy, #0, Red (7"and 8" tank) for AQT-56			
A-10225-1-N	Injector Assy, #1, White (9" and 10" tank) for AQT-56			
A-10225-2-N	Injector Assy, #2, Blue (12" tank) for AQT-56			
A-10225-3-N	Injector Assy, #3, Yellow (13" and 14" tank) for AQT-56			

# Meter Assembly for AQT-56SM And Parts List



Item No.	Quantity	Part No.	Description
1	4	A-12473	Screw. Meter Cap
2	1	A-14038	Meter Cap, 2100 gal
3	1	A-13847	O-ring, Meter Cap
4	1	A-13509	Impeller, Meter, AQT-56SM
5&6	4	A-13255-SM	Kit, Adpator Clip, AQT-56SM
7	4	A-13305	O-ring
8	1	A-13821	Meter Body, AQT-56SM
9	1	A-14613	Flow Straightener
