

AQUATROL



AQUATROL™
CONTROL VALVES



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AQT-56



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- ✓ **PERFORMANCE**
- ✓ **QUALITY**
- ✓ **RELIABILITY**

PERFORMANCE

Aquatrol valves have been designed to provide customers worldwide a breadth of product options to satisfy a wide range of application needs. Aquatrol constantly strives to produce products that offer exceptional performance that meet and exceed industry expectations time and time again.

QUALITY

Aquatrol valves are manufactured in a state of the art ISO9000 certified facility. They undergo strict Quality Control standards and have to comply with a broad scope of testing parameters. Strict Quality Control coupled with a market commitment to offer quality products, which increase your bottom line, are a major driving force in the success of Aquatrol, its distributors and its customers.

RELIABILITY

Aquatrol recognizes that in order to grow and expand our global distribution force, our products have to offer not just performance and quality, they have to offer reliability. We strive to deliver a product which you can confidently utilize knowing you have the peace of mind of the Aquatrol name behind it.

AQUATROL™
FILTER VALVES





AQT-56 FILTER VALVES

TIMER CONTROL VALVES

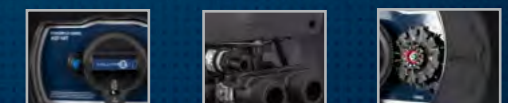
AQUATROL AQT-56 Timer / Control Valves offer a rigid valve body made from Noryl material for a superior quality and durability. The AQT-56 Control Valves are low power consumption and have a precision piston-seal-spacer assembly. With a wide range of piston selections as well as a full series of DLFC modules the AQT-56 can be customized to meet many requirements.

FEATURES

- Durable Noryl plastic body design
- Residential / light commercial applications
- Non-corrosive
- 3/4" - 1" Control valve
- Time clock: 12 days



AQT-56FT
Filter Timer



AQT-56 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-56FT	Mechanical	Filter Timer
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FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	20 gpm (76 lpm)
Peak 25 psi (1.7 bar) Drop	26 gpm (98 lpm)
Max Backwash 25 psi (1.7bar) Drop	7 gpm (26 lpm)
CV 1 psi (0.07 bar) Drop	5.0

FLOW RATE @ 50 PSI (3.5BAR) FILTER 15 PSI (1BAR) DROP (Average)

8x44	.75 cf (21 l)	9.6 gpm (36.5 lpm)
9x48	1.0 cf (29 l)	11.5 gpm (43.5 lpm)
10x54	1.5 cf (43 l)	11.8 gpm (44.5 lpm)

BACKWASH

Downflow/Upflow	Downflow
Cycles	4
Time Available	180 Minutes

VALVE SPECIFICATIONS

Inlet/Outlet	3/4" - 1"	Yoke
Mounting Base	2-1/2"	8 NPSM
Distributor Pilot	1.05"	OD
Drain Line	1/2"	
Height	7"	(178 mm)
Weight (Valve Gross)	TIMER	5.1 lb (2.3 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	3 VA
Water Pressure	Hydrostatic : 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE (recommended)

Filters	7" - 10"
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AQT-56SE FILTER VALVES

ELECTRONIC CONTROL VALVES

AQT-56 SE Electronic Control Valve

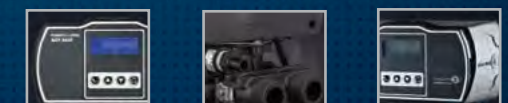
offer a rigid valve body made from Noryl material for a superior quality and durability. The AQT-56SE Control Valve is a meter controlled valve that allows all the regeneration times to be modified. With its four regeneration modes, you have total control of your process. Easy to use four button setting display.

FEATURES

- Large LCD Display
- Durable Noryl plastic body design
- Residential / light commercial applications
- Non-corrosive
- 3/4" - 1", NPT
- 5 cycles regeneration
- All cycles adjustable



AQT-56SE-FT
Electronic Filter Timer



AQT-56SE FILTER VALVES | SPECIFICATIONS

MODELS

AQT-56SE-FT	Electronic	Filter Timer
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FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	20 gpm (76 lpm)
Peak 25 psi (1.7 bar) Drop	26 gpm (98 lpm)
Max Backwash 25 psi (1.7bar) Drop	7 gpm (26 lpm)
CV 1 psi (0.07 bar) Drop	5.0

FLOW RATE @ 50 PSI (3.5BAR) FILTER 15 PSI (1BAR) DROP (Average)

8x44	.75 cf (21 l)	9.6 gpm (36.5 lpm)
9x48	1.0 cf (29 l)	11.5 gpm (43.5 lpm)
10x54	1.5 cf (43 l)	11.8 gpm (44.5 lpm)

BACKWASH

Downflow/Upflow Cycles	Downflow	5
Adjustable Cycles	All	
Time Available	Up to 999 minutes per cycle	

VALVE SPECIFICATIONS

Inlet/Outlet	1" or 3/4"	NPT
Mounting Base	2-1/2"	8 NPSM
Distributor Pilot	1.05"	OD
Drain Line	1/2"	ID
Height	7"	(178 mm)
Weight (Valve Gross)	TIMER	4.84 lb (2.1 kg)

ADDITIONAL INFORMATION

Electrical Rating	Input: 120V AC 60Hz Output: 24 V DC
Max. VA	3 VA
Water Pressure	Hydrostatic: 300 psi (21 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE (recommended)

Filters	7" - 10"
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AQT-275 FILTER VALVES

TIMER CONTROL VALVES

AQUATROL AQT-275 Timer Control Valves
 Offer a flanged body design for convenient maintenance and are made of solid lead-free brass for superior strength and durability. The AQT-275 is 5 cycle adjustable.

FEATURES

- Lead free brass body
- Adjustable 5 cycle control
- Residential / light commercial applications
- Backwash capacity for tanks up to 21"
- 1" Control valve
- Time clock: 12 days



AQT-275FT
Filter Timer



AQT-275F-NX
Electronic Filter Timer



AQT-275 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-275FT	Mechanical	Filter Timer
AQT-275F-NX	Electronic	Filter Timer

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE:

Continuous 15 psi (1 bar) Drop	26 gpm (98 lpm)
Peak 25 psi (1.7 bar) Drop	33 gpm (125 lpm)
Max Backwash 25 psi (1.7 bar) Drop	25 gpm (95 lpm)
CV 1 psi (0.07 bar) Drop	6.8

BACKWASH

Downflow/Upflow Cycles	Downflow or Upflow
Adjustable Cycles	5
Time Available	Mechanical, All 164 Minutes

VALVE SPECIFICATIONS

Inlet/Outlet	1"	NPT
Mounting Base	2-1/2"	8 NPSM
Distributor Pilot	1.05"	OD
Drain Line	3/4"	
Height	7"	(198 mm)
Weight (Valve Gross)	TIMER	13.2 lb (6 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Filters	10" - 21"
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AQT-285 FILTER VALVES

TIMER CONTROL VALVES

AQUATROL 285 Timer Mechanical Valves offer a flanged body design for convenient maintenance and are made of solid lead-free brass for superior strength and durability. The AQT-285 also has a time-tested piston, seal and spacer design.

FEATURES

- 1.5" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Backwash capacity for tanks up to 24" diameter
- Continuous flow rate of 51 gpm with backwash of 49 gpm
- Time clock: 12 days

AQT-285 FILTER VALVES



AQT-285FT
Filter Timer



AQT-285F-NX
Electronic Filter Timer



AQT-285 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-285FT	Mechanical	Filter Timer
AQT-285F-NX	Electronic	Filter Timer

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	51 gpm (193 lpm)
Peak 25 psi (1.7 bar) Drop	66 gpm (250 lpm)
Max Backwash 25 psi (1.7 bar) Drop	49 gpm (185 lpm)
CV 1 psi (0.07 bar) Drop	13.2

BACKWASH

Downflow/Upflow Cycles	Downflow 5
Adjustable Cycles Time Available	Mechanical, All 164 Minutes

VALVE SPECIFICATION

Inlet/Outlet	1-1/2"	NPT
Mounting Base	4"	8 UN
Distributor Pilot	1.96"	OD
Drain Line	1"	
Height	7-1/2"	(190 mm)
Weight (Valve Gross)	TIMER	22 lb (10 kg)

ADDITIONAL INFORMATION

Electrical Rating:	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature:	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Filters	14" - 24"
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AQT-290 FILTER VALVES

TIMER CONTROL VALVES

AQUATROL 290 Timer Mechanical Valves are made of solid lead-free brass for superior strength and durability. The AQT-290 incorporates 2 hydraulically-balanced pistons, seal and spacers. It can be used with single or multiple tank systems and it also offers continuous flow rate of 106 gpm.

FEATURES

- 2" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Continuous flow rate of 106 gpm
- Backwash capacity for tanks up to 21" diameter



AQT-290FT
Filter Timer



AQT-290F-NX
Electronic Filter Timer



AQT-290 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-290FT	Mechanical	Filter Timer
AQT-290F-NX	Electronic	Filter Timer

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	106 gpm (401 lpm)
Peak 25 psi (1.7 bar) Drop	140 gpm (530 lpm)
Max Backwash 25 psi (1.7 bar) Drop	25 gpm (95 lpm)
CV 1 psi (0.07 bar) Drop	27.5

BACKWASH

Downflow/Upflow Cycles	Downflow or Upflow
Adjustable Cycles	5
Time Available	Mechanical, All 164 Minutes

VALVE SPECIFICATIONS

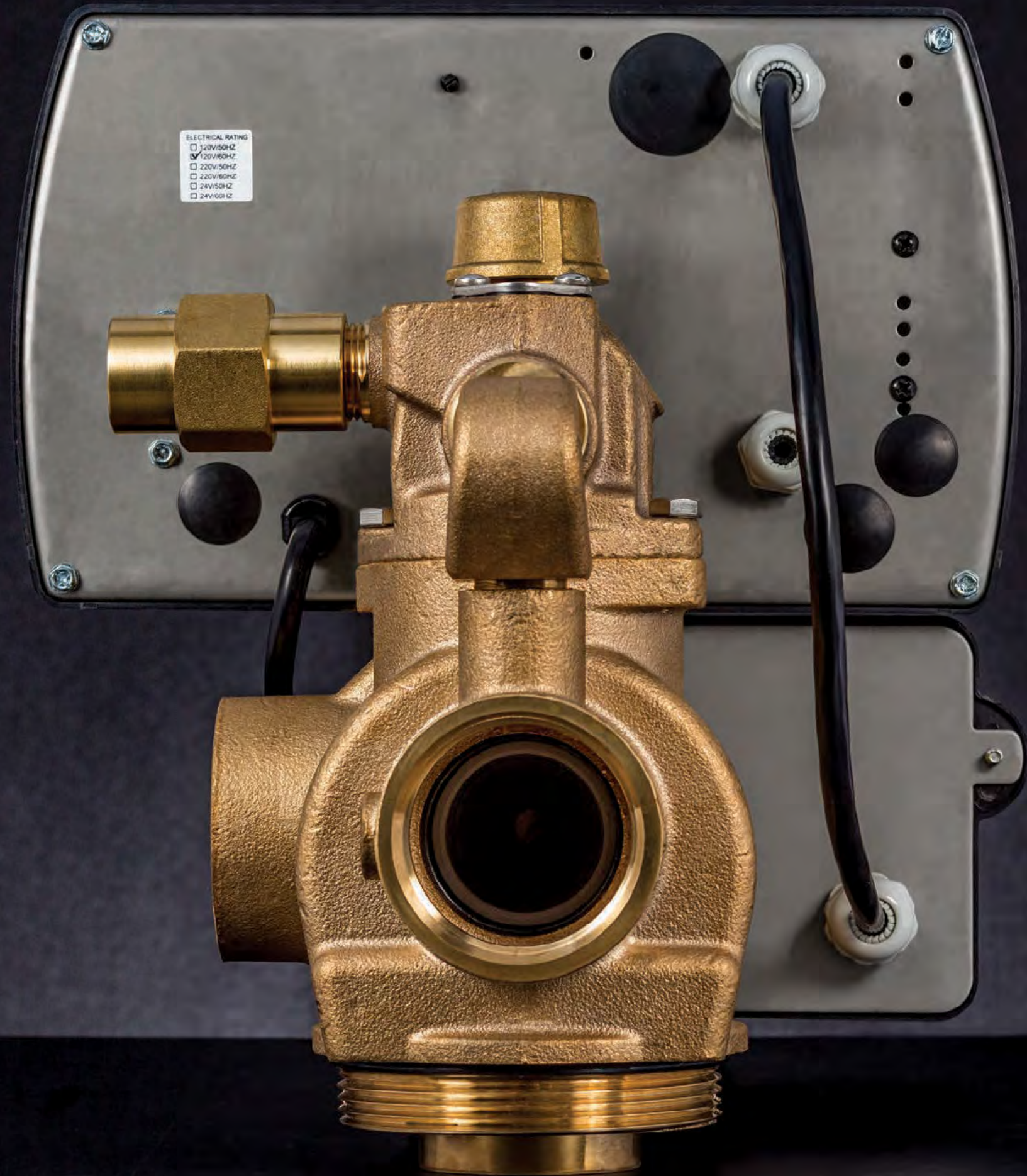
Inlet/Outlet	2"	NPT
Mounting Base	4"	8 UN
Distributor Pilot	1.96"	OD
Drain Line	3/4"	
Height	11.5"	(290 mm)
Weight (Valve Gross)	TIMER	35.3 lb (16 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	143 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Filters	14" - 21"
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AQT-315 FILTER VALVES

TIMER CONTROL VALVES

AQUATROL 315 Timer Mechanical Valves are made of solid lead-free brass for strength and durability. The AQT-315 has a time-tested piston, seal and spacer design. The AQT-315 is ideal for filter applications.

FEATURES

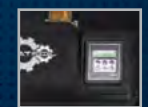
- 2" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Backwash capacity accommodates tanks up to 42" diameter



AQT-315FT
Filter Timer



AQT-315F-NX
Electronic Filter Timer



AQT-315 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-315FT	Mechanical	Filter Timer
AQT-315F-NX	Electronic	Filter Timer

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	95 gpm (360 lpm)
Peak 25 psi (1.7 bar) Drop	124 gpm (470 lpm)
Max Backwash 25 psi (1.7 bar) Drop	105 gpm (398 lpm)
CV 1 psi (0.07 bar) Drop	24.8

BACKWASH

Downflow/Upflow Cycles	Downflow or Upflow
Adjustable Cycles	5
Time Available	Mechanical, All 164 Minutes

VALVE SPECIFICATIONS

Inlet/Outlet	2"	NPT
Mounting Base	4"	8 UN
Distributor Pilot	2.49"	OD
Drain Line	2"	
Height	10"	(254 mm)
Weight (Valve Gross)	TIMER	41.9 lb (19 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	85 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Filters	24" - 42"
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AQT-390 FILTER VALVES

TIMER CONTROL VALVES

AQUATROL 390 Timer Mechanical Valves are made of solid lead-free brass for superior strength and durability. The AQT-390 also offers a time-tested piston, seal and spacer design. The AQT-390 also offers a fully adjustable 5 cycle controller. The AQT-390 is ideal for filter applications.

FEATURES

- 3" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Ideal for most filter applications up to 48"
- Continuous flow rate of 250 gpm



AQT-390FT
Filter Timer



AQT-390F-NX
Electronic Filter Timer



AQT-390 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-390FT	Mechanical	Filter Timer
AQT-390F-NX	Electronic	Filter Timer

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	250 gpm (950 lpm)
Peak 25 psi (1.7 bar) Drop	325 gpm (1,230 lpm)
Max Backwash 25 psi (1.7 bar) Drop	100 gpm (380 lpm)
CV 1 psi (0.07 bar) Drop	65.0

BACKWASH

Downflow/Upflow Cycles	Downflow or Upflow
Adjustable Cycles	5
Time Available	Mechanical, All 164 Minutes

VALVE SPECIFICATIONS

Inlet/Outlet	3"	BSPT
Mounting Base	6"	Flanged
Distributor Pilot	3.5"	OD
Drain Line	2"	
Height	15.3"	(390 mm)
Weight (Valve Gross)	TIMER	94.7 lb (43 kg)
	METER	121.3 lb (55 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	171 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Filters	36" - 48"
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AQUATROL™
SOFTENER VALVES





AQT-56 SOFTENER VALVES

TIMER-METER / CONTROL VALVES

AQUATROL AQT-56 Timer/Meter Control Valves offer a rigid valve body made from Noryl material for a superior quality and durability. The AQT-56 Control Valves are low power consumption and have a precision piston-seal-spacer assembly. With a wide range of piston selections as well as a full series of DLFC/BLFC/Injector modules the AQT-56 can be customized to meet many requirements.

FEATURES

- Durable Noryl plastic body design
- Residential / light commercial applications
- Non-corrosive
- 3/4" - 1" Control valve
- Time clock: 12 days
- Meter: delayed regeneration



AQT-56ST
Softener Timer



AQT-56SM
Softener Meter



AQT-56 SOFTENER VALVES | SPECIFICATIONS

MODELS

AQT-56ST	Mechanical	Timer
AQT-56SM	Mechanical	Meter

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	20 gpm (76 lpm)
Peak 25 psi (1.7 bar) Drop	26 gpm (98 lpm)
Max Backwash 25 psi (1.7bar) Drop	7 gpm (26 lpm)
CV 1 psi (0.07 bar) Drop	5.0

FLOW RATE @ 50 PSI (3.5BAR) SOFTENER 15 PSI (1BAR) DROP (Average)

7x35	.5 cf (14 l) Resin	8.0 gpm (30.3 lpm)
8x44	0.75 cf (21 l) Resin	9.6 gpm (36.5 lpm)
9x48	1.0 cf (29 l) Resin	11.5 gpm (43.5 lpm)
10x54	1.5 cf (43 l) Resin	11.8 gpm (44.5 lpm)
12x48	2.0 cf (57 l) Resin	12.8 gpm (48.5 lpm)
13x54	2.5 cf (71 l) Resin	13.5 gpm (51.1 lpm)
14X65	3 cf (85 l) Resin	14.5 gpm (54.8 lpm)

REGENERATION

Downflow/Upflow Cycles	Downflow 7
Adjustable Cycles	Brine Fill
Time Available	180 Minutes

METER

Accuracy Range	0.25 - 15 gpm (0.95 - 57 lpm) ±5%
Capacity Range	Standard: 125 - 2100 gal (0.5m ³ - 8m ³) Extended: 625 - 10800 gal (2.4m ³ - 40m ³)

VALVE SPECIFICATIONS

Inlet/Outlet	3/4"	1"
Mounting Base	2-1/2"	8 NPSM
Distributor Pilot	1.05"	OD
Drain Line	1/2"	
Brine Line	3/8"	
Height	7"	(178 mm)
Weight (Valve Gross)	TIMER	5.1 lb (2.3 kg)
	METER	5.5 lb (2.5 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	3 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE (recommended)

Filters	6" - 13"
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AQT-56SE SOFTENER VALVES

ELECTRONIC TIMER / METER CONTROL VALVES

AQT-56 SE Electronic Control Valve

offer a rigid valve body made from Noryl material for a superior quality and durability. The AQT-56SE Control Valve is a meter controlled valve that allows all the regeneration times to be modified. With its four regeneration modes, you have total control of your process. Easy to use four button setting display.

FEATURES

- Durable Noryl plastic body design
- Residential / light commercial applications
- Non-corrosive
- 3/4" - 1", NPT or NPSM
- Time clock: 12 days
- Meter: delayed regeneration



AQT-56SE-ST
Electronic Softener Timer



AQT-56SE-SM
Electronic Softener Meter



AQT-56SE SOFTENER VALVES | SPECIFICATIONS
MODELS

AQT-56SE-ST	Electronic	Timer
AQT-56SE-SM	Electronic	Meter

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	20 gpm (76 lpm)
Peak 25 psi (1.7 bar) Drop	26 gpm (98 lpm)
Max Backwash 25 psi (1.7bar) Drop	7 gpm (26 lpm)
CV 1 psi (0.07 bar) Drop	5.0

**FLOW RATE @ 50 PSI (3.5BAR) FILTER
15 PSI (1BAR) DROP (Average)**

8x44	.75	cf (21 l)	9.6	gpm (36.5 lpm)
7x35	.5	cf (14 l) Resin	8.0	gpm (30.3 lpm)
8x44	.75	cf (21 l) Resin	9.6	gpm (36.5 lpm)
9x48	1.0	cf (29 l) Resin	11.5	gpm (43.5 lpm)
10x54	1.5	cf (43 l) Resin	1.8	gpm (44.5 lpm)
12x48	2.0	cf (57 l) Resin	12.8	gpm (48.5 lpm)
13x54	2.5	cf (71 l) Resin	13.5	gpm (51.1 lpm)
14X65	3	cf (85 l) Resin	14.5	gpm (54.8 lpm)

REGENERATION

Downflow/Upflow Cycles	Downflow
Adjustable Cycles	5
Time Available	All
	up to 999 minutes per cycle

METER

Accuracy Range	0.25 - 15 gpm	(0.95 - 57 lpm) ± 5%
Capacity Range	1-9,999,999	

VALVE SPECIFICATIONS

Inlet/Outlet	1" or 3/4"	NPT or NPSM
Mounting Base	2-1/2"	8 NPSM
Distributor Pilot	1.05"	OD
Drain Line	1/2"	ID
Brine Line	3/8"	OD
Height	7"	(178 mm)
Weight (Valve Gross)	TIMER	4.8 lb (2.1 kg)
	METER	4.8 lb (2.1 kg)

ADDITIONAL INFORMATION

Electrical Rating	Input: 120V AC 60Hz Output: 24 V DC
Max. VA	3 VA
Water Pressure	Hydrostatic: 300 psi (21 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE (recommended)

Filters	6" - 13"
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AQT-275 SOFTENER VALVES

TIMER-METER / CONTROL VALVES

AQUATROL AQT-275 Timer/Meter Control Valves
Offer a flanged body design for convenient maintenance and are made of solid lead-free brass for superior strength and durability. The AQT-275 also offers a NH piston and is 5 cycle adjustable.

FEATURES

- Lead free brass body
- Adjustable 5 cycle control
- Residential / light commercial applications
- Backwash capacity for tanks up to 24"
- 1" Control valve
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration



AQT-275ST-HW / AQT-275ST-NH
Softener Timer



AQT-275SM-HW / AQT-275SM-NH
Softener Meter



AQT-275S-NX-HW / AQT-275S-NX-NH
Electronic Softener Timer/Meter



AQT-275 SOFTENER VALVES | SPECIFICATIONS

MODELS

AQT-275ST-HW	Mechanical Timer	Hard Water By-Pass
AQT-275ST-NH	Mechanical Timer	No Hard Water By-Pass
AQT-275SM-HW	Mechanical Meter	Hard Water By-Pass
AQT-275SM-NH	Mechanical Meter	No Hard Water By-Pass
AQT-275S-NX-HW	Electronic Timer/Meter	Hard Water By-Pass
AQT-275S-NX-NH	Electronic Timer/Meter	No Hard Water By-Pass

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE:

Continuous 15 psi (1 bar) Drop	26 gpm (98 lpm)
Peak 25 psi (1.7 bar) Drop	33 gpm (125 lpm)
Max Backwash 25 psi (1.7 bar) Drop	25 gpm (95 lpm)
CV 1 psi (0.07 bar) Drop	6.8

REGENERATION

Downflow/Upflow Cycles	Downflow or Upflow 5
Adjustable Cycles	Mechanical, All
Time Available	164 Minutes

METER

Accuracy	0.7 - 40 gpm (2.7 - 151 lpm) ± 5%
Capacity Range	Standard: 310 - 5,270 gal (1.2 - 20m3) Extended: 1,550 - 26,350 gal (6 - 100m3)

VALVE SPECIFICATIONS

Inlet/Outlet	1"	NPT
Mounting Base	2-1/2"	8 NPSM
Distributor Pilot	1.05"	OD
Drain Line	3/4"	
Brine Line	3/8"	
Height	7"	(198 mm)
Weight (Valve Gross)	TIMER	13.2 lb (6 kg)
	METER	17.2 lb (7.8 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Water Softeners	10" - 24"
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AQT-285 SOFTENER VALVES

TIMER-METER / CONTROL VALVES

AQUATROL 285 Timer/Meter Mechanical Valves offer a flanged body design for convenient maintenance and are made of solid lead-free brass for superior strength and durability. The AQT-285 also offers a NH piston option and has a time-tested piston, seal and spacer design.

FEATURES

- 1.5" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Backwash capacity for tanks up to 30" diameter
- Continuous flow rate of 51 gpm with backwash of 49 gpm
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration



AQT-285ST-HW / AQT-285ST-NH
Softener Timer



AQT-285SM-HW / AQT-285SM-NH
Softener Meter



AQT-285S-NX-HW / AQT-285S-NX-NH
Electronic Softener Timer/Meter



AQT-285 SOFTENER VALVES | SPECIFICATIONS

MODELS

AQT-285ST-HW	Mechanical Timer	Hard Water By-Pass
AQT-285ST-NH	Mechanical Timer	No Hard Water By-Pass
AQT-285SM-HW	Mechanical Meter	Hard Water By-Pass
AQT-285SM-NH	Mechanical Meter	No Hard Water By-Pass
AQT-285S-NX-HW	Electronic Timer/Meter	Hard Water By-Pass
AQT-285S-NX-NH	Electronic Timer/Meter	No Hard Water By-Pass

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	51 gpm (193 lpm)
Peak 25 psi (1.7 bar) Drop	66 gpm (250 lpm)
Max Backwash 25 psi (1.7 bar) Drop	49 gpm (185 lpm)
CV 1 psi (0.07 bar) Drop	13.2

REGENERATION

Downflow/Upflow	Downflow
Cycles	5
Adjustable Cycles	Mechanical, All
Time Available	164 Minutes

METER

Accuracy Range	1.5 - 75 gpm (5.7 - 284 lpm) ± 5%
Capacity Range	Standard: 625 - 10,125 gal (2.5 - 40m ³) Extended: 3,125 - 53,125 gal (12 - 200m ³)

VALVE SPECIFICATION

Inlet/Outlet	1-1/2"	NPT
Mounting Base	4"	8 UN
Distributor Pilot	1.96"	OD
Drain Line	1"	
Brine Line	1/2"	
Height	7-1/2"	(190 mm)
Weight (Valve Gross)	TIMER	22 lb (10 kg)
	METER	27.6 lb (12.5 kg)

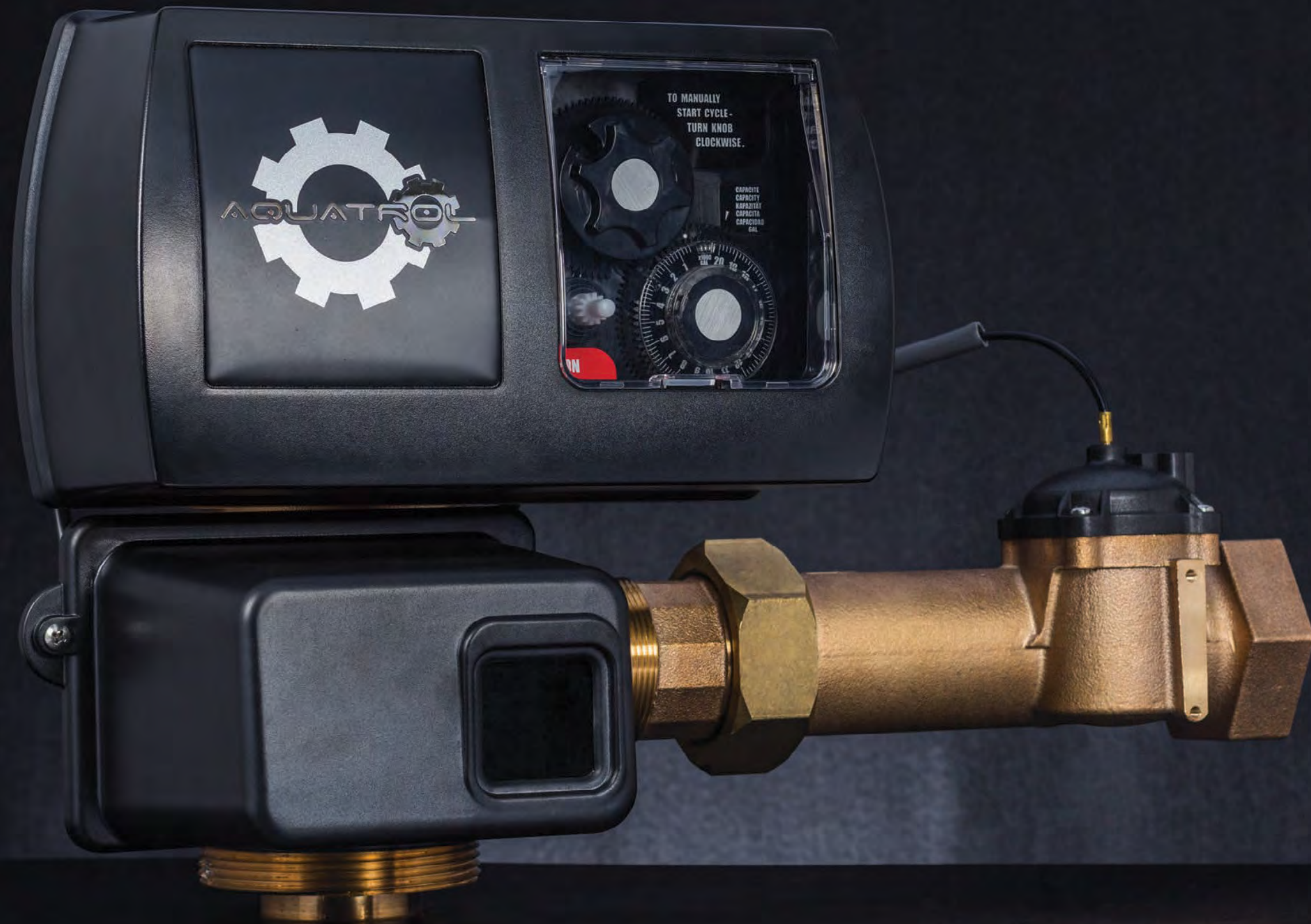
ADDITIONAL INFORMATION

Electrical Rating:	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature:	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Water Softeners	14" - 30"
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AQT-290 SOFTENER VALVES

TIMER-METER / CONTROL VALVES

AQUATROL 290 Timer/Meter Mechanical Valves are made of solid lead-free brass for superior strength and durability. The AQT-290 also offers a NH piston option. The AQT-290 incorporates 2 hydraulically-balanced pistons, seal and spacers. It can be used with single or multiple tank systems and it also offers continuous flow rate of 106 gpm.

FEATURES

- 2" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Continuous flow rate of 106 gpm
- Backwash capacity for tanks up to 36" diameter
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration



AQT-290ST-HW / AQT-290ST-NH
Softener Timer



AQT-290SM-HW / AQT-290SM-NH
Softener Meter



AQT-290S-NX-HW / AQT-290S-NX-NH
Electronic Softener Timer/Meter



AQT-290 SOFTENER VALVES | SPECIFICATIONS

MODELS

AQT-290ST-HW	Mechanical Timer	Hard Water By-Pass
AQT-290ST-NH	Mechanical Timer	No Hard Water By-Pass
AQT-290SM-HW	Mechanical Meter	Hard Water By-Pass
AQT-290SM-NH	Mechanical Meter	No Hard Water By-Pass
AQT-290S-NX-HW	Electronic Timer/Meter	Hard Water By-Pass
AQT-290S-NX-NH	Electronic Timer/Meter	No Hard Water By-Pass

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	106 gpm (401 lpm)
Peak 25 psi (1.7 bar) Drop	140 gpm (530 lpm)
Max Backwash 25 psi (1.7 bar) Drop	25 gpm (95 lpm)
CV 1 psi (0.07 bar) Drop	27.5

REGENERATION

Downflow/Upflow Cycles	Downflow or Upflow 5
Adjustable Cycles	Mechanical, All
Time Available	164 Minutes

METER

Accuracy	3 - 150 gpm (11.5 - 568 lpm) ± 5%
Capacity Range	Standard: 1,250 - 21,250 gal (4.8 - 40m3) Extended: 6,250 - 106,250 gal (24 - 400m3)

VALVE SPECIFICATIONS

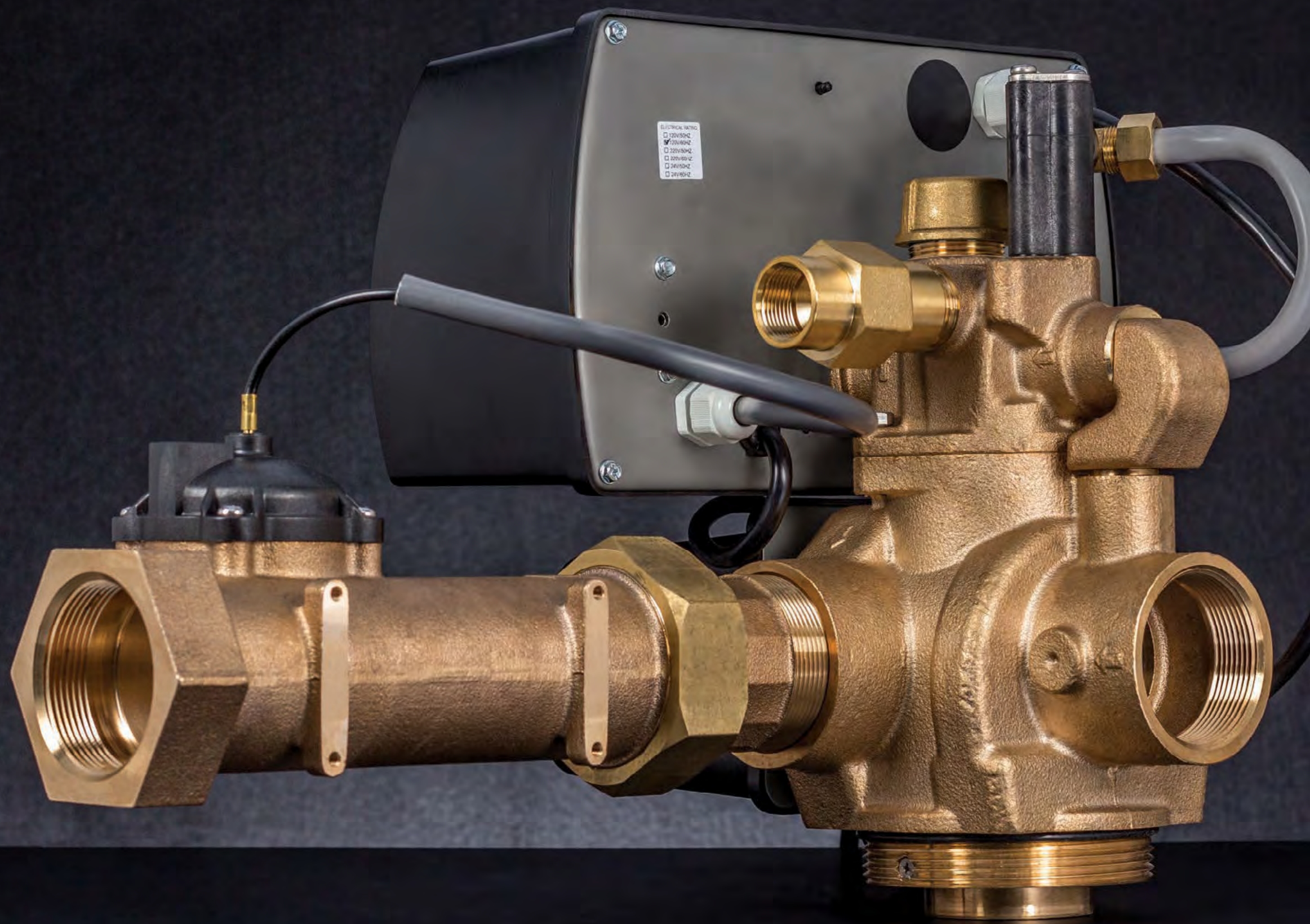
Inlet/Outlet	2"	NPT
Mounting Base	4"	8 UN
Distributor Pilot	1.96"	OD
Drain Line	3/4"	
Brine Line	1/2"	
Height	11.5"	(290 mm)
Weight (Valve Gross)	TIMER	35.3 lb (16 kg)
	METER	41.9 lb (19 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	143 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Water Softeners	14" - 36"
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AQT-315 SOFTENER VALVES

TIMER-METER / CONTROL VALVES

AQUATROL 315 Timer/Meter Mechanical Valves are made of solid lead-free brass for strength and durability. The AQT-315 also offers a NH piston option and has a time-tested piston, seal and spacer design. The AQT-315 also offers a fully adjustable 5 cycle controller that allows you to control the upflow backwash, downflow brining and slow rinse, rapid rinse, timed brine refill and downflow service.

FEATURES

- 2" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Backwash capacity accommodates tanks up to 63" diameter
- Side Mount option for 63" diameter tanks
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration



AQT-315ST-HW / AQT-315ST-NH
Softener Timer



AQT-315SM-HW / AQT-315SM-NH
Softener Meter



AQT-3155-NX-HW / AQT-3155-NX-NH
Electronic Softener Timer/Meter



AQT-315 SOFTENER VALVES | SPECIFICATIONS

MODELS

AQT-315ST-HW	Mechanical Timer	Hard Water By-Pass
AQT-315ST-NH	Mechanical Timer	No Hard Water By-Pass
AQT-315SM-HW	Mechanical Meter	Hard Water By-Pass
AQT-315SM-NH	Mechanical Meter	No Hard Water By-Pass
AQT-315S-NX-HW	Electronic Timer/Meter	Hard Water By-Pass
AQT-315S-NX-NH	Electronic Timer/Meter	No Hard Water By-Pass

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	95 gpm (360 lpm)
Peak 25 psi (1.7 bar) Drop	124 gpm (470 lpm)
Max Backwash 25 psi (1.7 bar) Drop	105 gpm (398 lpm)
CV 1 psi (0.07 bar) Drop	24.8

REGENERATION

Downflow/Upflow Cycles	Downflow or Upflow 5
Adjustable Cycles	Mechanical, All
Time Available	164 Minutes

METER

Accuracy	3 - 150 gpm (11.5 - 568 lpm) ± 5%
Capacity Range	Standard: 1,250 - 21,250 gal (4.8 - 40m ³) Extended: 6,250 - 106,250 gal (24 - 400m ³)

VALVE SPECIFICATIONS

Inlet/Outlet	2"	NPT
Mounting Base	4"	8 UN
Distributor Pilot	2.49"	OD
Drain Line	2"	
Brine Line	1"	
Height	10"	(254 mm)
Weight (Valve Gross)	TIMER	41.9 lb (19 kg)
	METER	48.5 lb (22 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	85 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Water Softeners	24" - 63"
Side Mount option	63"





AQT-390 SOFTENER VALVES

TIMER-METER / CONTROL VALVES

AQUATROL 390 Timer/Meter Mechanical Valves are made of solid lead-free brass for superior strength and durability. The AQT-390 also offers a NH piston option and has a time-tested piston, seal and spacer design. The AQT-390 also offers a fully adjustable 5 cycle controller that allows you to control the upflow backwash, downflow brining and slow rinse, rapid rinse, timed brine refill and downflow service.

FEATURES

- 3" Control valve
- Lead free brass body
- Adjustable 5 cycle control
- Ideal for most softeners applications up to 63"
- Continuous flow rate of 250 gpm
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration



AQT-390ST-HW / AQT-390ST-NH
Softener Timer



AQT-390SM-HW / AQT-390SM-NH
Softener Meter



AQT-390S-NX-HW / AQT-390S-NX-NH
Electronic Softener Timer/Meter



AQT-390 SOFTENER VALVES | SPECIFICATIONS

MODELS

AQT-390ST-HW	Mechanical Timer	Hard Water By-Pass
AQT-390ST-NH	Mechanical Timer	No Hard Water By-Pass
AQT-390SM-HW	Mechanical Meter	Hard Water By-Pass
AQT-390SM-NH	Mechanical Meter	No Hard Water By-Pass
AQT-390S-NX-HW	Electronic Timer/Meter	Hard Water By-Pass
AQT-390S-NX-NH	Electronic Timer/Meter	No Hard Water By-Pass

FLOW RATE @ 50 PSI (3.5 BAR) VALVE ALONE

Continuous 15 psi (1 bar) Drop	250 gpm (950 lpm)
Peak 25 psi (1.7 bar) Drop	325 gpm (1,230 lpm)
Max Backwash 25 psi (1.7 bar) Drop	100 gpm (380 lpm)
CV 1 psi (0.07 bar) Drop	65.0

REGENERATION

Downflow/Upflow Cycles	Downflow or Upflow 5
Adjustable Cycles	Mechanical, All
Time Available	164 Minutes

METER

Accuracy	7 - 300 gpm (26.5 - 1,135 lpm) ± 5%
Capacity Range	Standard: 3,750 - 63,750 gal (14 - 204m ³) Extended: 18,750 - 318,250 gal (70 - 1200m ³)

VALVE SPECIFICATIONS

Inlet/Outlet	3"	BSPT
Mounting Base	6"	Flanged
Distributor Pilot	3.5"	OD
Drain Line	2"	
Brine Line	1"	
Height	15.3"	(390 mm)
Weight (Valve Gross)	TIMER	94.7 lb (43 kg)
	METER	121.3 lb (55 kg)

ADDITIONAL INFORMATION

Electrical Rating	220V, 110V, 24V - 50Hz, 60Hz
Max. VA	171 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 120 psi (1.4 bar - 8 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE *(recommended)*

Water Softeners	36" - 48"
Side Mount Option	36" - 63"



AQT-MFV-34 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type	Manual
Electricity	None Required
Water Capacity Service	8 gpm @ 21.8 psi
Water Capacity Back Wash	8 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet	3/4"
Mounting Base	2.5"
Drain Line	3/4"
Riser Pipe	1.05" OD

ADDITIONAL INFORMATION

Temp Range	41° F (5° C) – 113° F (45° C)
Maximum Temperature	122° F
Pressure Range	21 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body	Noryl
Handle	Metal
Internal Disc	Ceramic

TANK SIZE RANGE (recommended)

Filters	6" - 10"
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AQT-MFV-1 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type	Manual
Electricity	None Required
Water Capacity Service	16.5 gpm @ 21.8 psi
Water Capacity Back Wash	17 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet	1"
Mounting Base	2.5"
Drain Line	1"
Riser Pipe	1.05" OD

ADDITIONAL INFORMATION

Temp Range	41° F (5° C) – 113° F (45° C)
Maximum Temperature	122° F
Pressure Range	21 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body	Noryl
Handle	Metal
Internal Disc	Ceramic

TANK SIZE RANGE (recommended)

Filters	6"-13"
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AQT-MFV-34 & AQT-MFV-1 Manual Filter Valves

Aquatrol AQT-MFV-34 & AQT-MFV-1 Manual Filter Valves offer a simple to use manually controlled valve for easy operation. Used with activated carbon filtration and other water treatment applications. The Aquatrol AQT-MFV-34 & AQT-MFV-1 Manual Filter Valves are available in 2.5" base and provide an easy to use lever operation for moving from Service, to Rinse and to Back Wash positions.



AQT-MFV-2 Manual Filter Valve

Aquatrol AQT-MFV-2 Manual Filter Valves offer a simple to use manually controlled valve for easy operation. Used with activated carbon filtration and other water treatment applications. The Aquatrol AQT-MFV-2 Manual Filter Valves are available in 4" base and provide an easy to use lever operation for moving from Service, to Rinse and to Back Wash positions.

AQT-MFV-2 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type	Manual
Electricity	None Required
Water Capacity Service	46.3 gpm @ 21.8 psi
Water Capacity Back Wash	41.85 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet	2"
Mounting Base	4"
Drain Line	1.5"
Riser Pipe	1.96" OD

ADDITIONAL INFORMATION

Temp Range	41° F (5° C) – 113° F (45° C)
Maximum Temperature	122° F
Pressure Range	21 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body	Noryl
Handle	Plastic
Internal Disc	Ceramic

TANK SIZE RANGE (recommended)

Filters	14"-24"
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AQT-MSV-34 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type	Manual
Electricity	None Required
Water Capacity Service	9 gpm @ 21.8 psi
Water Capacity Back Wash	4 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet	3/4"
Mounting Base	2.5"
Drain Line	1"
Riser Pipe	1.05" OD
Brine Line	3/8"

ADDITIONAL INFORMATION

Temp Range	41° F (5° C) – 113° F (45° C)
Maximum Temperature	122° F
Pressure Range	21 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body	Noryl
Handle	Metal
Internal Disc	Ceramic

TANK SIZE RANGE (recommended)

Filters	6" - 10"
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AQT-MSV-1 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type	Manual
Electricity	None Required
Water Capacity Service	17.02 gpm @ 21.8 psi
Water Capacity Back Wash	6.7 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet	1"
Mounting Base	2.5"
Drain Line	1"
Riser Pipe	1.05" OD
Brine Line	3/8"

ADDITIONAL INFORMATION

Temp Range	41° F (5° C) – 113° F (45° C)
Maximum Temperature	122° F
Pressure Range	21 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body	Noryl
Handle	Metal
Internal Disc	Ceramic

TANK SIZE RANGE (recommended)

Filters	6"-16"
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AQT-MSV-34 & AQT-MSV-1 Manual Softener Valves

Aquatrol AQT-MSV-34 & AQT-MSV-1 Manual Softener Valves offer a simple to use manually controlled valve for easy operation. Used for water softening and other water treatment applications. The Aquatrol AQT-MSV-34 & AQT-MSV-1 Manual Softener Valves are available in 2.5" base and provide an easy to use lever for ease of operation.



AQT-MSV-2 Manual Softener Valve

Aquatrol AQT-MSV-2 Manual Softener Valves offer a simple to use manually controlled valve for easy operation. Used for water softening and other water treatment applications. The Aquatrol AQT-MSV-2 Manual Softener Valves are available in 4" base and provide an easy to use lever for ease of operation.

AQT-MSV-2 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type	Manual
Electricity	None Required
Water Capacity Service	36.4 gpm @ 21.8 psi
Water Capacity Back Wash	25.1 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet	2"
Mounting Base	4"
Drain Line	1.5"
Riser Pipe	1.96" OD
Brine Line	1/2"

ADDITIONAL INFORMATION

Temp Range	41° F (5° C) – 113° F (45° C)
Maximum Temperature	122° F
Pressure Range	21 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body	Noryl
Handle	Plastic
Internal Disc	Ceramic

TANK SIZE RANGE (recommended)

Softener	14"-30"
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MOTOR 110V

A-18743-1 For AQT-56 & AQT-275 - AQT-390 timers



YOKES

A-187706-02 3/4" NPT plastic yoke for AQT-56
A-187706 1" NPT plastic yoke for AQT-56



BYPASS

A-60040SS 3/4" SS Bypass for AQT-56
A-60041SS 1" SS Bypass for AQT-56
A-60049 3/4" Plastic Bypass for AQT-56



HW & NH PISTON KITS

A-60102-00 For AQT-56 softener
A-60102-10 For AQT-56 filter
A-60090-HF For AQT-275, AQT-290 (HW), Upper
A-60101 For AQT-275 (NH)
A-60105 For AQT-285 (HW)
A-60114-01 For AQT-285 (NH)
A-60103 For AQT-290 (HW), Lower
A-60104 For AQT-290 (NH), Lower
A-60106-00 For AQT-315, AQT-390 (HW), Upper
A-60113-01 For AQT-315 (NH)
A-60107-00 For AQT-390 (HW), Lower
A-60107-10 For AQT-390 (NH), Lower
(HW - Hard water bypass, NH - No Hard water bypass)



SEAL & SPACER KITS

A-60125 For AQT-56
A-60121-10 For AQT-275, AQT-290, Upper
A-60129-20 For AQT-285
A-60128 For AQT-290, Lower
A-60131 For AQT-315, AQT-390, Upper
A-60132 For AQT-390, Lower



DLFC CONNECTORS

A-60699-00 3/4", brass, for AQT-275, AQT-290
A-60701-00 1", brass, for AQT-285



BUTTON RETAINERS

A-13173 DLFC Button Retainer For AQT-56
A-13245 BLFC Button Retainer For AQT-56 & AQT-275



INJECTORS

For AQT-56 & AQT-56SE

A-10225-0 #0 red, tank 7" - 8"
A-10225-1 #1 white, tank 9" - 10"
A-10225-2 #2 blue, tank 12"
A-10225-3 #3 yellow, tank 13"
A-10225-4 #4 green, tank 14"



A-10225-0-N #0 red, tank 7" - 8"
A-10225-1-N #1 white, tank 9" - 10"
A-10225-2-N #2 blue, tank 12"
A-10225-3-N #3 yellow, tank 13" - 14"



For AQT-275

A-18272-0 3/8", #1 red, tank 10"
A-18272-1 3/8", #2 white, tank 12"
A-18272-2 3/8", #3 blue, tank 13" - 14"
A-18272-3 3/8", #4 yellow, tank 16"



For AQT-285 & AQT-290

A-14801-03C 1/2", #3C white, tank 18" - 20"
A-14801-04C 1/2", #4C green, tank 21"
A-14801-05C 1/2", #5C blue, tank 24"
A-14801-06C 1/2", #6C red, tank 30" - 36"



For AQT-315 & AQT-390

A-15128-04 1", #4C green, tank 24"
A-15128-05 1", #5C red, tank 30"
A-15128-06 1", #6C white, tank 36"
A-15128-07 1", #7C blue, tank 42"
A-15128-08 1", #8C yellow, tank 48"
A-15128-09 1", #9C violet, tank 54"
A-15128-10 1", #10C black, tank 60" - 63"



DLFC & BLFC WASHERS



DLFC

For AQT-56

A-12085, A-12086, A-12087, A-12088, A-12089, A-12090, A-12091 & A-12092

For AQT-275, AQT-285, AQT-290, AQT-315 & AQT-390 X 4

A-17943, A-17944, A-16529, A-16735, A-16736, A-16528 & A-16737

BLFC

For AQT-56 & AQT-275

A-12094, A-12095 & A-12097

For AQT-285 & AQT-290

A-12085, A-12086, A-12087, A-12088, A-12089, A-12090, A-12091 & A-12092

For AQT-315 & AQT-390

A-17943, A-17944, A-16529, A-16735, A-16736, A-16528, & A-16737

	Flow (gpm)	Diameter (mm)
A-12094	0.25	7.5
A-12095	0.5	7.5
A-12097	1.0	7.5
A-12085	1.2	17.5
A-12086	1.5	17.5
A-12087	2.0	17.5
A-12088	2.4	17.5
A-12089	3.0	17.5
A-12090	3.5	17.5
A-12091	4.0	17.5
A-12092	5.0	17.5
A-17943	8.0	25.5
A-17944	9.0	25.5
A-16529	10.0	25.5
A-16735	12.0	25.5
A-16736	15.0	25.5
A-16528	20.0	25.5
A-16737	25.0	25.5

METERS FOR NX CONTROLLERS

For AQT-275 Valve

AQT-275-NXMETER 1" Paddle Meter



For AQT-285 Valve

AQT-285-NXMETER 1.5" Paddle Meter



For AQT-290 Valve

AQT-290-NXMETER 2" Paddle Meter



For AQT-315 VALVE

AQT-315-NXMETER 2" Paddle Meter



For AQT-390 Valve

AQT-390-NXMETER 3" Paddle Meter



SIDE MOUNTS

For AQT-285 & AQT-290 Valves

A-61415



For AQT-315 Valve

A-61414



For AQT-390 Valve

A-61417



INJECTORS ASSY

For AQT-275 Valve

A-60480



For AQT-285 & AQT-290 Valves

A-60381



For AQT-315 & AQT-390 Valves

A-60277



BRINE VALVES

For AQT-56 SOFTENER Valve

A-60084



For AQT-56 FILTER Valve

A-60384



For AQT-275 Valve

A-60029



For AQT-285 & AQT-290 Valves

A-60034



For AQT-315 & AQT-390 Valves

A-60036



The products described in this document are hereby offered for sale to be established by Aquatrol, Hydrofit Quick Connect Fittings, Polaris Scientific Ultraviolet, Hydron Membranes, Shok Blok, HydroGuard, Hydronix Water Technology, any of its subsidiaries and its authorized distributors. This offer and its acceptance by any customer (the "Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in this document, when communicated to Aquatrol, Hydrofit Quick Connect Fittings, Polaris Scientific Ultraviolet, Hydron Membranes, Shok Blok, HydroGuard, Hydronix Water Technology, its subsidiaries or an authorized distributor (the "Seller") verbally or in writing, shall constitute acceptance of this offer. Provided, however, that these terms and conditions shall not operate as a rejection of the Buyer's offer unless such offer contains variances in the description, quantity, price, or delivery schedule of the items.

1. Terms and Conditions of Sale.

All descriptions, quotations, proposals, offers, acknowledgments, acceptances and sales of the Seller's products are subject to and shall be governed exclusively by the terms and conditions stated herein (the "Agreement"). The Buyer's acceptance of any offer to sell is limited to the terms and conditions in the Agreement. Any terms or conditions in addition to or inconsistent with those stated in the Agreement, proposed by the Buyer in any acceptance of an offer by the Seller, are hereby rejected. No such additional, different or inconsistent terms and conditions shall become part of the agreement between the Buyer and the Seller unless expressly accepted in writing by the Seller. The Seller's acceptance of any offer to purchase by the Buyer is expressly conditioned upon the Buyer's assent to all the terms and conditions in this Agreement, irrespective of any terms in addition to, or inconsistent with those contained in the Buyer's offer. Acceptance of the Seller's products shall in all events constitute such assent.

2. Documents.

Unless provided otherwise in the Agreement, all catalog descriptions, illustrations, drawings and literature or independently submitted estimates of performance, weights and measurements or other specifications provided by the Seller are mere approximations and the Seller reserves the right to alter or amend them at any time. The Seller reserves the right to correct clerical or technical errors in the contract documents. The Buyer shall furnish with his order all necessary specifications and information. The Seller takes no responsibility for goods manufactured, priced or delivered not in accordance with the order or the specifications unless the Buyer's order and specifications are clear and correct.

3. Prices.

Unless otherwise provided, all prices contained in our quotations and written acceptances are ex-works and do not include the cost of packing. All orders are accepted on the condition that all such prices are subject to revision by the Seller at any time before the goods are dispatched to take account of any price change. In the event that the Buyer does not place the entire order quoted by the Seller for the Buyer, the Seller reserves the right to revise its prices. The Seller also reserves the right to revise its prices if the Buyer modifies the specification or quantity of the goods or the delivery requirements after the order has been accepted by the Seller.

4. Advice.

All advice given in connection with the Seller's goods is provided without charge to the Buyer. ANY ADVICE AND ASSISTANCE GIVEN BY THE SELLER TO THE BUYER IS GIVEN AT THE BUYER'S RISK, AND THE BUYER SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE OR CLAIM ARISING THEREFROM.

5. Payment.

(a) Unless otherwise provided in the Agreement, or explicitly agreed upon in writing by the Seller, payment is due in full 30 days from date of shipment of the items purchased herein under. (b) In the case of an installment contract, deliveries or parts, payment for each installment delivery or part shall be made under sub-clause (a) as if the same constituted a separate agreement. (c) Amounts not timely paid shall bear interest at the rate of 2-1/2% above the Seller's bank's prime rate from time to time in force. (d) In the event that the Buyer fails within one calendar month of the date for payment to effect any payment which may be due under the Agreement or any agreement with the Seller, or if the Buyer commits any breach of the Agreement, or if the Buyer becomes insolvent or commits any act of bankruptcy or contemplation of liquidation, the Seller will be entitled, without prejudice to the Seller's other rights, to terminate the Agreement or any unfulfilled part thereof, or at the Seller's option to make partial deliveries.

6. Modifications and Cancellations.

This Agreement is not subject to oral modification or cancellation. A Buyer's request for modification or cancellation will not be incorporated into the Agreement unless the request is accepted by the Seller in a writing that amends the Agreement. Acceptance of any such requested modification or cancellation shall be at the Seller's discretion and shall be upon such terms and conditions as the Seller may require.

7. Handling Charge.

Goods supplied in accordance with the Buyer's order may later be returned to the Seller at the Seller's discretion provided the return is pre-authorized in writing, and the merchandise is unused, in original packages, unaltered, clean and no older than 60 days from the date of shipment by the Seller. The Buyer will be required to pay to the Seller a handling charge of 25% of the purchase price of the returned goods. A copy of the original invoice for the merchandise must accompany all returns.

8. Delivery.

(a) Any delivery dates quoted are approximate only and the Seller shall have no liability for any delays in delivery. (b) Unless provided otherwise, delivery of the goods shall be made when the Seller has notified the Buyer that the goods are ready for dispatch. Regardless of the method of delivery, delivery shall be made F.O.B. Seller's plant, where the risk of loss shall thereupon pass to the Buyer upon the Seller's delivery to a carrier. Notwithstanding that the Seller's prices are ex-works, the Seller is prepared by special contract to procure carriage or freight and insurance on behalf of the Buyer and at Buyer's cost in which event the Seller shall be under no liability for damage in transit or loss or damage to the goods beyond the point at which the Seller contracts to deliver the same. (c) The Seller will not make drop shipments.

9. Inspection and Rejection.

(a) The following provisions shall apply in relation to all deliveries of goods: the Seller shall not be held liable for any claims of damage in transit, shortage of delivery or loss of goods, unless in the case of shortage of delivery, a separate notice in writing is given to the carrier concerned and to the Seller within three (3) days of the receipt of the goods, followed by a complete claim in writing within five (5) days of receipt of the goods and in the case of loss of goods, a separate notice in writing is given to the carrier concerned and to the Seller and a complete claim in writing made within thirty (30) days of the date of consignment. The Buyer must inspect the goods on arrival from the carrier; however, where goods are accepted from the carrier concerned without being inspected, the delivery book of the carrier concerned must be signed "not examined". The Seller shall have the right to inspect the goods at the Buyer's premises in respect to any such claims made by the Buyer and the Buyer shall retain such goods until the Seller has inspected such goods or until the Seller has notified the Buyer that the Seller does not wish to inspect such goods. Any breach of these conditions in this provision shall serve as a waiver to any claim brought by the buyer. (b) Without prejudice to the Seller's other rights, should the Buyer fail for any reason to send the Seller forwarding instructions within ninety (90) days after the date of the Seller's notification that the goods are ready for dispatch or to accept delivery of the goods, the Seller shall be entitled at the Buyer's risk and expense to store the goods and/or to procure or effect storage of the goods elsewhere. Goods so stored shall be paid for as if they had been dispatched and/or accepted.

10. Special Tooling.

Where it is necessary for the Seller to manufacture or to purchase special tooling, including without limitation tools, dies, jigs, mandrills, fixtures, molds, and patterns, in order to execute a contract, the Buyer will be charged with all or a proportion of the cost of such special tools. Such special tooling shall be and remain the Seller's property notwithstanding payment of any charges made by the Buyer. In no event will the Buyer acquire any interest in apparatus belonging to the Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adopted for such manufacture and notwithstanding any charges paid by the Buyer therefore. Unless otherwise agreed, the Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

11. Test and Performance.

(a) The Seller's goods are, where practicable, submitted to the Seller's standard test before delivery. If special tests are required, these shall be made at the Seller's premises unless otherwise agreed, and will be subject to an extra charge. (b) The Seller accepts no liability for failure to attain any performance figures quoted by the Seller unless the Seller specifically has guaranteed them with an agreed sum as liquidation damages and the Buyer has suffered actual loss by reason of the failure to attain the figures quoted. (c) Any particulars of weights and measurements, power and consumption, power output or performance relating to the goods and like matters furnished by the Seller to the Buyer in the Seller's catalogs, literature or otherwise, are approximate and are intended only to present a general idea of the goods to be supplied and unless previously agreed specifically in writing shall not form part of the Agreement.

12. Buyer's Property.

Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished to the Seller by the Buyer, or any other items which become the Buyer's property, may be considered obsolete and may be destroyed by the Seller after two (2) consecutive years have elapsed without the Buyer placing an order for the items which are manufactured using such property. The Seller shall not be responsible for any loss or damage to such property while it is in the Seller's possession or control.

13. Taxes.

Unless otherwise indicated, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by the Seller, or if the Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the item sold. The Buyer agrees to pay all such taxes or to reimburse the Seller therefore upon receipt of its invoice. If the Buyer claims exemption from any sales, use or other tax imposed

by any taxing authority, the Buyer shall promptly indemnify and hold the Seller harmless from and against any such tax, as well as any interest or penalties thereon which may be assessed if the items are held to be taxable.

14. Warranty.

EXCEPT AS EXPRESSLY WARRANTED IN WRITING BY THE SELLER, THE GOODS SOLD BY THE SELLER ARE PURCHASED BY THE BUYER "AS IS." THE SELLER DOES NOT WARRANT THAT THE GOODS ARE OF MERCHANTABILITY QUALITY OR THAT THEY CAN BE USED FOR ANY PARTICULAR PURPOSE. EXCEPT AS EXPRESSLY WARRANTED IN WRITING BY THE SELLER, THE SELLER MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND WITH RESPECT TO THE PRODUCTS.

(a) The Seller warrants that the items sold hereunder shall be free from defects in material or workmanship at the time of shipment by the Seller. The Seller warrants that if within 12 months of delivery of the goods to the Buyer the Buyer returns immediately to the Seller's premises any of the said goods which the Buyer believes to be defective, carrier paid, properly packed and clearly marked with the Buyer's full name and address and any other information such as serial numbers which may be necessary to enable the goods to be identified, together with a complete description of the alleged defect, they will be repaired or new goods will be supplied in exchange and the goods so repaired or such new goods will be delivered to the Buyer free of charge at the Seller's premises; provided, however, that the foregoing warranty shall be applicable only if upon demand by the Seller, the Buyer proves to the Seller's satisfaction: (i) that the defect was due solely to defective workmanship; (ii) that no alterations or repairs have been made to the goods except with the Seller's written consent; (iii) that the defect was not caused by any act of the Buyer or its agents; and (iv) that the defect was not caused by any matter beyond the reasonable control of the Seller, including, without limitation, accident or normal wear and tear. (b) THIS WARRANTY DOES NOT APPLY UNLESS THE SELLER'S PRODUCTS ARE: (I) USED IN DOMESTIC PLUMBING APPLICATIONS; (II) INSTALLED BY A LICENSED CONTRACTOR, PLUMBER OR QUALIFIED EQUIPMENT INSTALLATION PROFESSIONAL; AND (III) INSTALLED AND OPERATED IN ACCORDANCE WITH PUBLISHED HYDROFIT / HYDRONIX WATER TECHNOLOGY SPECIFICATIONS. (c) All costs and expenses, including freight charges, customs duties, and insurance incurred in returning the goods to the Seller's premises in accordance with this provision shall be paid by the Buyer. The benefit of this warranty shall not be assignable by the Buyer. (d) THIS WARRANTY DOES NOT EXTEND TO ANY GOODS NOT MANUFACTURED BY THE SELLER EVEN THOUGH SUPPLIED BY THE SELLER NOR DOES IT EXTEND TO ANY SECOND-HAND OR RECONDITIONED GOODS NOR DOES IT EXTEND TO COMPONENTS MANUFACTURED BY THE SELLER BUT INSTALLED, ATTACHED OR WELDED BY THE BUYER OR HIS CUSTOMER ON EQUIPMENT NOT MANUFACTURED BY THE SELLER. GOODS NOT MANUFACTURED BY THE SELLER CARRY ONLY THE WARRANTY (IF ANY) OF THEIR MAKERS AND THE BUYER IS ENTITLED TO THE BENEFIT THEREOF ONLY SO FAR AS THE SELLER HAS THE POWER TO TRANSFER IT. (e) THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER; THE SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESSED OR IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING, ARE HEREBY DISCLAIMED. (f) NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY TO THE BUYER'S DESIGNS OR SPECIFICATIONS.

15. Limited Remedy.

THE SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS AGREEMENT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ITEMS SOLD. IN NO EVENT SHALL THE SELLER BE LIABLE TO THE BUYER OR ANY THIRD PARTY FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ANY ITEMS SOLD, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY. IN NO EVENT SHALL THE SELLER BE LIABLE TO THE BUYER OR ANY OTHER ENTITY FOR MORE THAN THE INVOICE PRICE RECEIVED BY THE SELLER FOR ANY NON-CONFORMING PRODUCTS. THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR ANY OTHER ENTITY FOR PERSONAL INJURY, PROPERTY DAMAGE, OR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, SPECIAL, OR OTHER DAMAGES OF ANY KIND, INCLUDING WITHOUT LIMITATION THE COST OF PROCUREMENT OF SUBSTITUTE GOODS, THE LOSS OF PROFITS, PRODUCTS, OR PRODUCTION, OR THE INTERRUPTION OF BUSINESS, HOWEVER CAUSED. THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR ANY OTHER ENTITY ON ANY THEORY OF LIABILITY INCLUDING WITHOUT LIMITATION BREACH OF CONTRACT OR EXPRESS OR IMPLIED WARRANTY, TORT, NEGLIGENCE, FAILURE TO WARN, OR STRICT LIABILITY, AND WHETHER OR NOT THE SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE ESSENTIAL PURPOSE OF THIS PROVISION IS TO LIMIT THE LIABILITY OF THE SELLER ARISING OUT OF THE SALE OF PRODUCTS TO THE BUYER WHETHER FOR BREACH OF CONTRACT, NEGLIGENCE, OR ANY OTHER THEORY OF LIABILITY. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY AND NOTWITHSTANDING THE PROVISIONS OF ANY OTHER AGREEMENT BETWEEN THE SELLER AND THE BUYER.

16. Indemnity for Infringement of Intellectual Property Rights.

(a) The Buyer shall defend and indemnify the Seller against all actions, claims, demands, penalties and costs by third parties in tort, or for infringement, or alleged infringement, of patents, trademarks, copyrights, trade dress, trade secret or other rights of any third party resulting from the goods manufactured in accordance with the Buyer's specifications or based on any information provided by the Buyer. The Buyer will defend any action against the Seller for title, patent, trademark, copyright infringement, or other claimed by a third party at the Buyer's sole cost and expense. (b) The Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this provision. The Seller will defend and indemnify the Buyer against allegations of infringement of patents, trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). The Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against the Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. The Seller's obligation to defend and indemnify the Buyer is contingent on the Buyer notifying the Seller within 10 days after sole control over the defense of any allegations or actions, including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, the Seller may, at its sole expense and option, procure for the Buyer the right to continue using said item, replace or modify said item so as to make it non-infringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, the Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in combination or use in a system of any item sold hereunder. The foregoing in this provision shall constitute the Seller's sole and exclusive liability and the Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

17. Lien.

In addition to any right of lien to which the Seller may by law be entitled, the Seller shall have a general lien on all goods of the Buyer in the Seller's possession (although such goods or some of them may have been paid for) for the unpaid price of any other goods sold and delivered to the Buyer by the Seller under the same or other contracts.

18. Waiver.

The Seller's rights shall not be affected or restricted by any indulgence or forbearance granted to the Buyer. No waiver by the Seller of any breach shall operate as a waiver of any later breach.

19. Force Majeure.

The Seller shall be excused from performing any of its obligations under this Agreement which are prevented or delayed by any occurrence not within the reasonable control of the Seller, including but not limited to, accidents, acts of God, destruction or damage to the goods or the Seller's manufacturing plant, delays or failures in delivery of carriers or suppliers, shortages of materials, strikes or other labor matters, floods, earthquakes, fire, riots, explosions, or any regulations, rules, ordinances or orders of any governmental authority, federal, state or local, whether such cause exists at the date of the order or not.

20. Buyer's Representation of Solvency.

The Buyer hereby represents that as of the signing of this Agreement it was not insolvent within the meaning of the Uniform Commercial Code or any Bankruptcy Laws.

21. Assignment and Delegation.

The rights and obligations of the parties under this Agreement may not be assigned or delegated, except on the express written consent of the other party to the assignment or delegation.

22. Integration.

The rights and obligations of the parties and the terms and conditions set forth herein, together with any amendments, modifications and any different terms and conditions expressly accepted by the Seller in writing, shall constitute a complete and exclusive statement of the terms of this Agreement. This Agreement supersedes not only all prior agreements, but also oral agreements made contemporaneously with the execution of this Agreement. All such materials may not be used to supplement, explain, or contradict the terms of this Agreement.

23. Severability.

If any of these conditions or any part thereof purports to exclude or restrict or limit any liability and such exclusion or restriction or limitation is prohibited or rendered void or unenforceable by any legislation to which it is subject, or is itself prohibited or rendered void or unenforceable by any legislation to which it is subject, then the exclusion, restriction or limitation on the condition or part thereof in question shall be so prohibited or rendered void or unenforceable and the validity or enforceability of any other part of these provisions shall not thereby be affected.

24. Governing Law/Limitation on Actions.

The terms, conditions, rights, and obligations under this Agreement shall be construed under the laws of the State of California, without regard to principles of conflicts of laws. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by the Buyer more than two (2) years after such cause of action accrues.

WHERE RELIABILITY MEETS PROFITABILITY



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