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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.



AQT-56



AQT-56SE



AQT-275



AQT-28



AQT-290



AQT-315



AQT-390

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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



AQT-56 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-56FT

Mechanical Filter Timer

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)

7x35	.5 cf (14 l)	8.0 gpm (30.3 lpm)
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)
12x48	1.75 cf (50 l)	12.8 gpm (48.5 lpm)

BACKWASH

Downflow/Upflow	Downflow
Cycles	5
Time Available	180 Minutes

VALVE SPECIFICATIONS

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

ADDITIONAL INFORMATION

Electrical Rating Max. VA	220V, 110V, 24V - 50Hz, 60Hz 3 VA
Water Pressure	Hydrostatic : 300 psi (20 bar) Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110° F (1 - 43° C)

TANK SIZE RANGE (recommended)

Filters

6" - 12"









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

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)

7x35	.5 cf (14 l)	8.0 gpm (30.3 lpm)
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)
12x48	1.75 cf (50 l)	12.8 gpm (48.5 lpm)

BACKWASH

Downflow/Upflow	Downflow
Cycles	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"	QC (Quick Connect)
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 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Filters

6" - 12"









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
- 1" Control valve
- Time clock: 12 days
- NX Controller: Timer



AQT-275FT



AQT-275F-NX Electronic Filter Tir





AQT-275 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-275FT AQT-275F-NX Mechanical Filter Timer 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	Downflow or Upflow	
Cycles	5	
Adjustable Cycles	All	
Time Available	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 Max. VA	24V - 50Hz, 60Hz 74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar)
	Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Filters

10" - 21"









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 30" diameter
- Continuous flow rate of 51 gpm with backwash of 49 gpm
- Time clock: 12 days
- NX Controller: Timer



AQT-285FT Filter Timer



AQT-285F-NX Electronic Filter Timer



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AQT-285 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-285FT AQT-285F-NX Mechanical Filter Timer 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	Downflow
Cycles	5
Adjustable Cycles	All
Time Available	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:	24V - 50Hz, 60Hz
Max. VA	74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar)
	Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature:	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Filters

14" - 30"



AQUATROL





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
- NX Controller: Timer



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

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AQT-290F-NX Electronic Filter Timer





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AQT-290 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-290FT AQT-290F-NX Mechanical Filter Timer 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	Downflow or Upflow
Cycles	5
Adjustable Cycles	All
Time Available	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

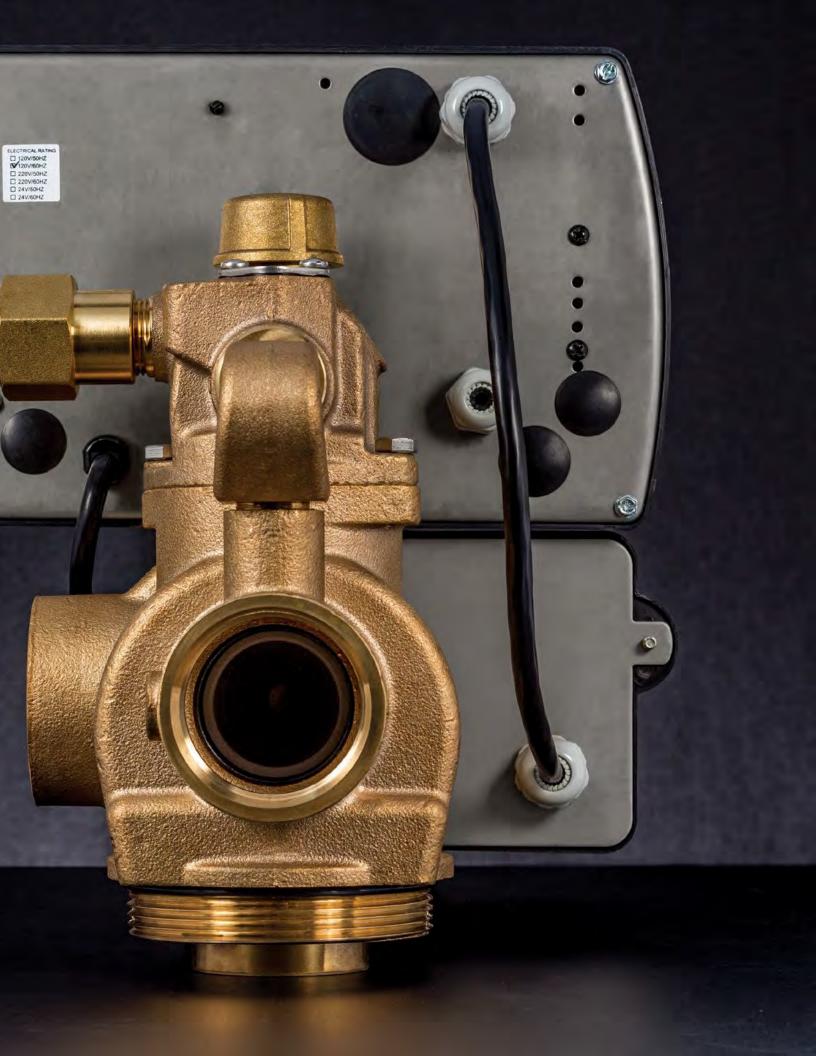
Electrical Rating Max, VA	24V - 50Hz, 60Hz 143 VA
Water Pressure	Hydrostatic: 300 psi (20 bar)
Temperature	Working: 20 - 125 psi (1.4 bar - 8.6 bar) 34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Filters

14" - 24"









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
- NX Controller: Timer



AQT-315FT Filter Timer



AQT-315F-NX Electronic Filter Timer





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AQT-315 FILTER VALVES | SPECIFICATIONS

MODELS

AQT-315FT AQT-315F-NX Mechanical Filter Timer 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	Downflow or Upflow
Cycles	5
Adjustable Cycles	All
Time Available	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	24V - 50Hz, 60Hz
Max. VA	85 VA
Water Pressure	Hydrostatic: 300 psi (20 bar)
	Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Filters

24" - 42"









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
- NX Controller: Timer



AQT-390FT Filter Timer



AQT-390F-NX Electronic Filter Timer



AQT-390 FILTER VALVES | SPECIFICATIONS

MODELS

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

pflow

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 Max. VA	24V - 50Hz, 60Hz 171 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Filters

36" - 48"

















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 Time



AQT-56SM Softener Mete









AQT-56 SOFTERNER 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)

REGENERATION

Downflow/Upflow	Downflow
Cycles	5
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 - 8r

andard: 125 - 2100 gal (0.5m³ - 8m³) Extended: 625 - 10800 gal (2.4m³ - 40m³)

VALVE SPECIFICATIONS

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

ADDITIONAL INFORMATION

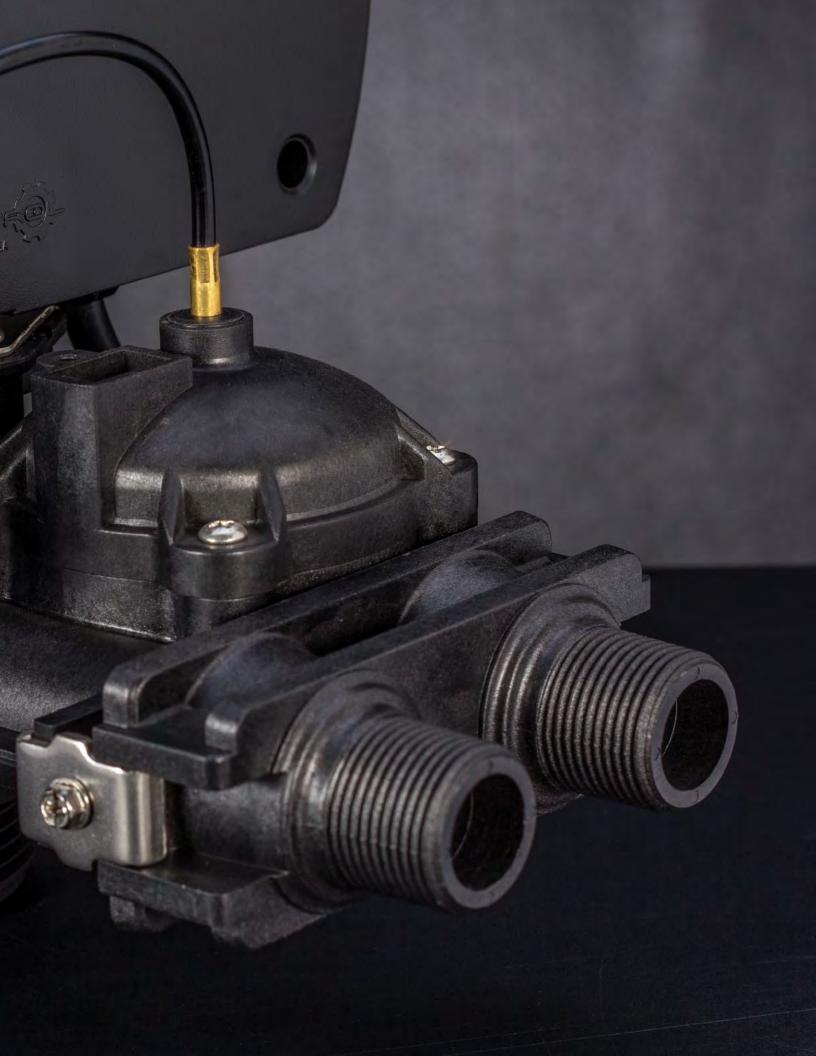
Water Pressure Hydrostatic: 300 psi (20 bar)	
Working: 20 - 125 psi (1.4 bar - 8.6 bar) Temperature 34 - 110 °F (1 - 43 °C)	

TANK SIZE RANGE (recommended)

Softeners

6" - 13"









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
- SE Controller: Timer, Meter Immediate, Meter Delayed



AQT-56SE-ST Electronic Softener Time



AQT-56SE-SM Electronic Softener Mete









AQT-56SE SOFTERNER VALVES | SPECIFICATIONS

MODELS

AQT-56SE-ST	E
AQT-56SE-SM	E

Electronic Timer 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)

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

REGENERATION

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

METER

Accuracy Range Capacity Range

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

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"	QC (Quick Connect)
Brine Line	3/8"	QC (Quick Connect)
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 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Softeners

6" - 13"









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
- Light commercial applications
- 1" Control valve
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration
- NX Controller: Timer, Meter Immediate, Meter delayed





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

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



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







AQT-275 SOFTENER VALVES | SPECIFICATIONS

MODELS

AQT-275ST-HW AQT-275ST-NH	Mechanical Timer Mechanical Timer	Hard Water By-Pass 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	Downflow or Upflow
Cycles	5
Adjustable Cycles	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

1"	NPT
2-1/2"	8 NPSM
1.05"	OD
3/4"	
3/8"	
7"	(198 mm)
TIMER	13.2 lb (6 kg)
METER	17.2 lb (7.8 kg)
	2-1/2" 1.05" 3/4" 3/8" 7" TIMER

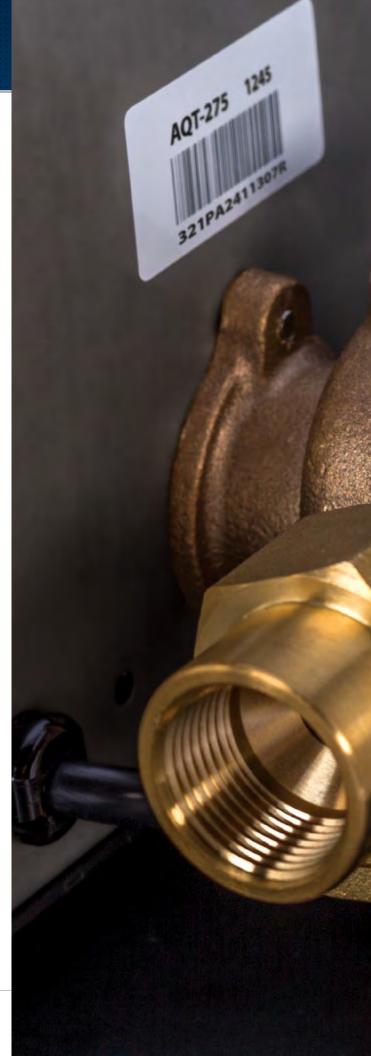
ADDITIONAL INFORMATION

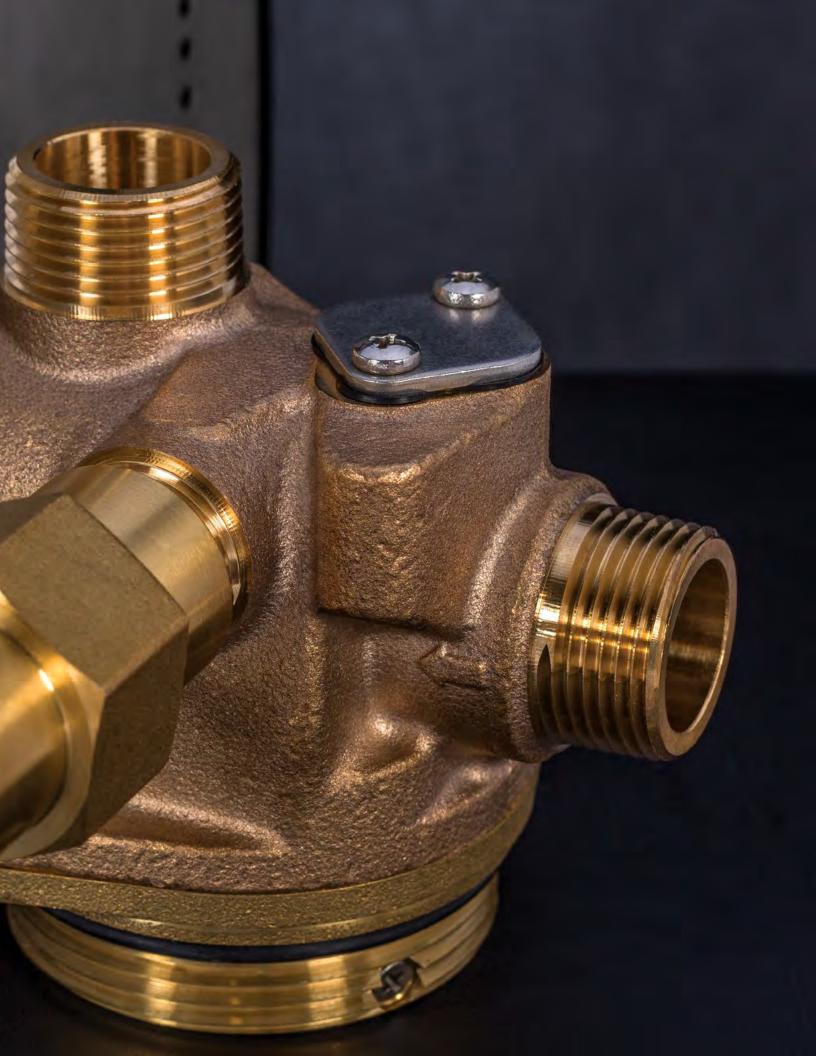
Electrical Rating Max. VA	24V - 50Hz, 60Hz 74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar)
	Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Water Softeners

10" - 30"









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
- Continuous flow rate of 51 gpm with backwash of 49 gpm
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration
- NX Controller: Timer, Meter Immediate, Meter delayed





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

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



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





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AQT-285 SOFTENER VALVES | SPECIFICATIONS

MODELS

 AQT-285ST-HW
 Mech

 AQT-285ST-NH
 Mech

 AQT-285SM-HW
 Mech

 AQT-285SM-NH
 Mech

 AQT-285SN-NH
 Mech

 AQT-285SN-NH
 Electr

 AQT-285S-NX-NH
 Electr

Mechanical Timer Mechanical Timer Mechanical Meter Mechanical Meter Electronic Timer/Meter Electronic Timer/Meter

Hard Water By-Pass No Hard Water By-Pass Hard Water By-Pass No Hard Water By-Pass Hard Water By-Pass 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 Cycles Adjustable Cycles Time Available Downflow 5 All 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: Max. VA	24V - 50Hz, 60Hz 74 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature:	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Water Softeners

14" - 36"









AQT-290 SOFTENER VALVES

TIMER-METER / CONTROL VALVES

AOUATROL 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
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration
- NX Controller: Timer, Meter Immediate, Meter delayed





AQT-290ST-HW / AQT-290ST-NH

AQT-290SM-HW / AQT-290SM-NH



Electronic Softerner 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	Downflow or Upflow
Cycles	5
Adjustable Cycles	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 - 400m ³)

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)

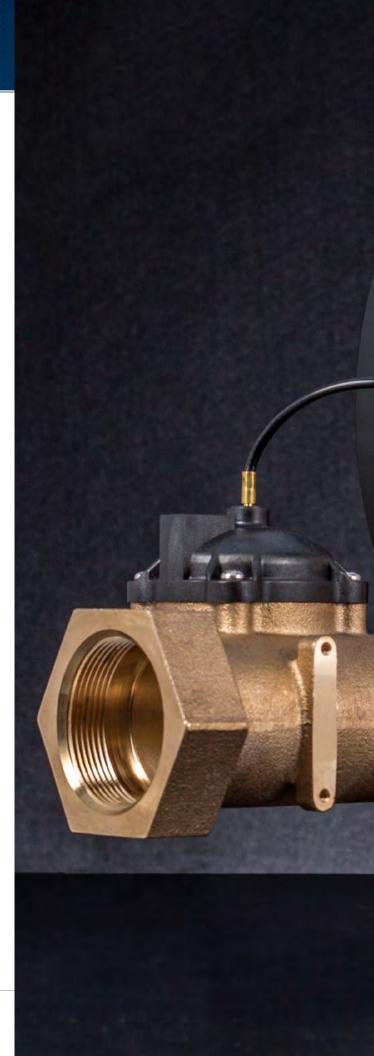
ADDITIONAL INFORMATION

Electrical Rating Max. VA	24V - 50Hz, 60Hz 143 VA
Water Pressure	Hydrostatic: 300 psi (20 bar)
	Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Water Softeners

14" - 36"









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 timetested 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
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration
- NX Controller: Timer, Meter Immediate, Meter delayed





AQT-315ST-NH AQT-315SM-HW / AQT-315SM-NH r Timer Softerner Meter



QT-315S-NX-HW / AQT-315S-NX-NH Electronic Softerner 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 or Upflow
5
All
164 Minutes

METER

Accuracy 3 - 150 gpt Capacity Range Standard: Extended:

3 - 150 gpm (11.5 - 568 lpm) ± 5% 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	2.49"	OD
Drain Line	2"	00
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 Max. VA	24V - 50Hz, 60Hz 85 VA
Water Pressure	Hydrostatic: 300 psi (20 bar)
	Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Water Softeners

24" - 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
- Continuous flow rate of 250 gpm
- NH option available
- Time clock: 12 days
- Meter: delayed regeneration
- NX Controller: Timer, Meter Immediate, Meter delayed





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

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



AQT-390S-NX-HW / AQT-390S-NX-NH Electronic Softerner 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	Downflow or Upflow
Cycles	5
Adjustable Cycles	All
Time Available	164 Minutes

METER

AQT-390 SOFTENER VALVES | SPECIFICATIONS

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"	NPT
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 Max. VA	24V - 50Hz, 60Hz 171 VA
Water Pressure	Hydrostatic: 300 psi (20 bar) Working: 20 - 125 psi (1.4 bar - 8.6 bar)
Temperature	34 - 110 °F (1 - 43 °C)

TANK SIZE RANGE (recommended)

Water Softeners

36" - 48"







AQT-MFV-34 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type	Manual
Electricity	None Required
Water Capacity Service	9 gpm @ 21.8 psi
Water Capacity Back Wash	8 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet	
Mounting Base	
Drain Line	
Riser Pipe	

ADDITIONAL INFORMATION

Temp Range	
Pressure Range	

41 °F (5 °C) – 113 °F (45 °C) 14 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body Handle Internal Disc

Noryl Metal Ceramic

3/4"

3/4" 1.05" OD

2.5" - 8 NPSM

TANK SIZE RANGE (recommended)

Filters

6" - 10"

AQT-MFV-1 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type Electricity Water Capacity Service Water Capacity Back Wash Manual None Required 19 gpm @ 21.8 psi 19 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet		
Mounting Base		
Drain Line		
Riser Pipe		

ADDITIONAL INFORMATION

Temp Range Pressure Range 41 °F (5 °C) – 113 °F (45 °C) 14 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body Handle Internal Disc

Noryl Metal Ceramic

1" 2.5" - 8 NPSM 1" 1.05" OD

TANK SIZE RANGE (recommended)

Filters

6"-13"

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	44 gpm @ 21.8 psi
Water Capacity Back Wash	44 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet Mounting Base Drain Line Riser Pipe 2" 4" - 8 UN 2" 1.96" OD

ADDITIONAL INFORMATION

Temp Range Pressure Range 41 °F (5 °C) – 113 °F (45 °C) 14 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body Handle Internal Disc Noryl Plastic Ceramic

TANK SIZE RANGE (recommended)

Filters

14"-24"







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" - 8 NPSM
Drain Line	1/2"
Riser Pipe	1.05" OD
Brine Line	3/8"

ADDITIONAL INFORMATION

Temp Range	41 °F (5 °C) – 113 °F (45 °C)
Pressure Range	14 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body Handle Internal Disc

Noryl Plastic Ceramic

TANK SIZE RANGE (recommended)

Softener

6" - 10"

AQT-MSV-1 VALVES | SPECIFICATIONS

DESCRIPTION

Control Type Electricity Water Capacity Service Water Capacity Back Wash

Manual None Required 19 gpm @ 21.8 psi 6.7 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet **Mounting Base** Drain Line **Riser Pipe** Brine Line

ADDITIONAL INFORMATION

Temp Range Pressure Range 41 °F (5 °C) – 113 °F (45 °C) 14 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body	
Handle	
Internal Disc	

Norvl Metal Ceramic

1" 2.5" - 8 NPSM

1/2"

3/8"

1.05" OD

TANK SIZE RANGE (recommended)

Softener

6"-16"

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 Electricity Water Capacity Service Water Capacity Back Wash Manual None Required 44 gpm @ 21.8 psi 25.1 gpm @ 21.8 psi

VALVE SPECIFICATIONS

Inlet/Outlet Mounting Base Drain Line Riser Pipe Brine Line

2" 4" - 8 UN 1" 1.96" OD 1/2"

ADDITIONAL INFORMATION

Temp Range Pressure Range 41 °F (5 °C) – 113 °F (45 °C) 14 psi - 87 psi

MATERIALS OF CONSTRUCTION:

Body Handle Internal Disc Noryl Plastic Ceramic

TANK SIZE RANGE (recommended)

Softener

14"-24"







REPLACEMENT PARTS

YOKES

A-187706-02



BYPASS

A-187706

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, 1st Generation
A-60102-10	For AQT-56 filter, 1st Generation
A-60102-20	For AQT-56 filter & softener, 3rd Generation
A-60102-SE	For AQT-56SE filter & softener, 3rd Generation
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 b	ypass, NH - No Hard water bypass)



For AQT-56 & AQT-56SE (3rd Generation)

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

For AQT-275

A-A-

A-

A-

A-A-A-A-

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

For AQT-285 & AQT-290

14801-03C	1/2", #3C white, tank 18" - 20"
14801-04C	1/2", #4C green, tank 21"
14801-05C	1/2", #5C blue, tank 24"
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

DL

A-17942, A-17943, A-17944,

BLFC

A-12094, A-12095 & A-12097

A-12088, A-12089, A-12090, A-12091 & A-12092

A-17942, A-17943, A-17944, A-16529, A-16735, A-16736,



.FC	
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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 X 4 & AQT-390 X 4

A-16529, A-16735, A-16736, A-16528, A-16737 & A-17900-PLG

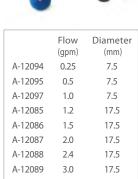
For AQT-56 & AQT-275

For AQT-285 & AQT-290

A-12085, A-12086, A-12087,

For AQT-315 & AQT-390

A-16528 & A-16737



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-17942	5.0	25.5
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
A-17900-PLG	0.0	25.5

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

INJECTORS

For AQT-56 & AQT-56SE (1st Generation)

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"



3/4"

68 **Replacement Parts**

1″

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

2" Paddle Meter

2" Paddle Meter

3" Paddle Meter

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 AOT-56 FILTER Valve A-60384



For AQT-275 Valve A-60029



A-60034

For AOT-285 & AOT-290 Valves

For AQT-315 & AQT-390 Valves A-60036



SIDE MOUNTS





A-61415

For AQT-285 & AQT-290 Valves

For AOT-290 Valve

AQT-290-NXMETER

For AQT-315 VALVE AQT-315-NXMETER

For AQT-390 Valve AQT-390-NXMETER

For AQT-315 Valve A-61414

For AOT-390 Valve

A-61417



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, howver, that these terms and conditions shall not operate as a rejection of the Buyer's affect under stuck offer canteries unitaries in the distributor and the call destributor (the "Seller") verbally or in writing, additionary to the distributor and the stuce and the call destributor (the "Seller") verbally or in writing in the call offer canteries in the distributor and the stuce as delivery called use fits how of the Buyer's affect under stuck offer canteries in the distributor and the stuce as a distributor (the "Seller") verbally or in the stuce as the stuce as a selection of the Buyer's affect under stuck offer and the stuce in the distributor and the stuce as delivery called use that three terms and conditions that not perate as a rejection of the Buyer's affect under stuck offer and the stuce in the decirculation and the stuce as delivery called use that three terms and conditions the stuce as a selection of the Buyer's affect under stuck offer and the stuce in the decirculation and the stuce as delivery called as that three terms and the stuce as a selection of the Buyer's affect under stuck as a stuce as a selection of the stuce as a selection of the stuce as a selection of the stuce as a selection as a selection and the stuce as a 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 more devices by both the second secon the object multiple control of the other of the control of the second se such assent.

2 Documents

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 derical or technical errors in the contract documents. The Buyer shall furnish with this 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 dear 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.

• A volve.
• A volve

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-dause (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 alendar 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 preauthorized 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 invice for the merchandise must accompany all returns.

8. Delivery. (a) Any deliv 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 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 on 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.

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 carrier concerned and to the Seller within three (3) days of the receipt of the goods. 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". are accepted from the carrier concerned without being inspected, the derivery book of the carrier concerned must be signed not examined . The Seller shall have the right to inspect the goods at the Buyer's prime is in respect to and be yith a Buyer shall retain such goods, shall be buyer shall be seller shall not signed such goods. Any breach of these conditions in this provision shall serve as a varier to any daim 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 inney (90) days after the date of the Seller's notification that the goods are ready for dispatch or to accept delivery of the goods, be Seller's hall 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.

10. Special looing. Where it is necessry 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

11. Lest 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's agreed is a significant of the Seller's premises unless otherwise agreed, and will be subject to an extra charge. (b) The Seller's agreed is a significant of the Seller's premises unless otherwise agreed, and will be subject to an extra charge. (b) The Seller's agreed is a significant of the Seller's the Seller's predifically has guaranteed them with an agreed sum as figuidation damages and the Buyer has suffered actual loss by reason of the failure to attain the figures guaranteed them with an agreed sum as figuidation damages power and consumption, power output or performance relating to the goods and like matters furnished by 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 are approximation to the action was not of the Agreement. previously agreed specifically in writing shall not form part of the Agreement.

12. Buyer's Property.

12. buyers Property. Any designs, tobs, 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 24. Governing Law/Limitation on Actions. 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, or if 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 items sold. The Buyer agrees to pay all 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 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 Warrant

14. WATATING. EXCEPT AS EVERESSLY 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 MERCHANTABLE 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 (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.

RESPECT 10 THE PRODUCTS.
(a) The Selfer warrans that the items sold hereunder shall be free from defects in material or workmanship at the time of shipment by the Selfer. The Selfer warrans that if within 12 months of delivery of the goods to the Buyer returns immediately to the Selfer's premises any of the said goods which the Buyer slue sto 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 subjected to the Buyer features which are uponds will be delivered to the Buyer features to the defect ware of charge at the Selfer's premises; provided, however, that the foregoing warranty shall be applicable only if upon demand by the Selfer, the guyer proves to the Selfer's settisfaction: (1) that the defect was not caused by any act of the Subject or sagents; and (iv) that the defect was not caused by any matter beyond the reasonable control of the Selfer, sometism, without 1 (Imitation, accident or normal wear and teas: (b) THIS WARRANTY DOES NOT APPLY UNLESS THE SCHLER'S PRODUCTS ARE (1) USED IN DOMESTIC UNMERING ROULANDE CONTROL FOR PRODUCTS ARE (1) USED IN DOMESTIC UNMERING ROULANDE CONTROL FOR PRODUCTS ARE (1) USED IN DOMESTIC UNMERING ROULANDE CONTROL FOR PRODUCTS ARE (1) USED IN DOMESTIC UNMERING ROULAND CONTROL (CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL FOR PRODUCTS ARE (1) USED IN DOMESTIC UNMERING ROULAND CONTROL FOR PRODUCTS ARE (1) USED IN DOMESTIC UNMERS ROULAND ROUST STATUTED LAND DATE OF DEALING, ARE HEREBY DISCLAIMED. (f) NOTWITHSTANDING THE FORGOING, THERE ARE NO WARRANTIES WHATSOEVER ON THEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY TO THE BUYER'S DESIGNS OR SPECIFICATIONS.

15. Limited Remedy

13. Limited Remedy. 11. Limited Remedy. THE SELIEPS 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 SELIER BE LIABLE TO THE BUYER OR ANY THIND PARTY FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS RAISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ANY TEMS SOLD, WHETHER ALLEED TO ARISE FROM OREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY OR INTORI, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARROW OR STIRCT LIABILITY. IN DEVENT SHALL THIS SELIER BE ALBALETO THE BUYER OR ANY OTHER SOLT WHETHER ALLINE TO WARROW OR STIRCT LIABILITY. NO EVENT SHALL THIS SELIER BE REALER STABLE NOT BE UNDER OR ANY OTHER INTITY FOR MORE PRICE RECEIVED BYTH SELIER FOR ANY NON-CONFORMING PRODUCTS. THE SELIER SHALL NOT BE LIABLE TO THE BUYER OR ANY OTHER PARTY FOR ARY CONFERENCE AND REPORTING JONG THE OFTEN AND RECEIVED BYTHE SELIER FOR ANY CON-CONFORMING PRODUCTS. THE SELIER SHALL NOT BE LIABLE TO THE BUYER OR ANY OTHER ONTITY FOR PRESNAL JOURTED EVENT AND OF OTHER DAMAGES OR ANY KIND JONG THE REVENT AND RECEIVED BYTHE SELIER FOR ANY NON-CONFORMING PRODUCTS. THE SELIER SHALL NOT BE LIABLE TO THE BUYER OR ANY OTHER ONTITY FOR PRESNAL JOURTED EVENT AND DEPT. INDITECT SECAN. AIN NOR-CONTONIUMENT DOUGLET. IN CLAIM SIDEL OF A CONSTRUCT OF DUILT OF AIN TO ANY DIRECT, INDUCES, THE CONSTRUCT OF ANY CINE, ANY DIRECT, INDUCES, 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 PROFTS, PRODUCTION, 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 THE SITU THE GOODS, THE LOSS OF ROFTS, PRODUCTION, OR ANY THEORY OF LIABLET THE BUYER OR ANY OTHER ENTITY ON ANY THEORY OF LIABLET TO THE BUYER OR ANY OTHER ENTITY ON ANY THEORY OF MANN, ALBULTY INCLUDING WITHOUT LIMITATION BREACH OF CONTRACT OR SPRESS OR IMPLED WARRANT, YORT, KEGLIGENCE, FALLURE TO WARN, LANGET I INCLUDIVE AND WITHING LIMITATION DELART OF CARAGEMENT OF LAN ARGON ON INFECTED WARNENT, TON, INCLUDING, FAILONDE, FAILONDE OF THE FOSSIBILITY OF SUCH ANAGES. THE ESSENTIAL PURPOSE OF THIS PROVISION IS TO LIMIT THE LABLETY OF THE SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH ANAGES. THE ESSENTIAL PURPOSE CONTRACT, NEGLIGENCE, OR ANY OTHER THEORY OF LIABILITY. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REIMENT AND NOTWITHSTANDING THE PROVISIONS OF ANY OTHER AGREEMENT BETWEENT THE SELLER AND THE BUYER.

Indemnity for Infringement of Intellectual Property Rights.

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 allegol infringement, or allegol infringement, or allegol and ingrement, of parents, trademarks, copyright, 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 lite, patent, trademarks, copyright infringement, 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 lite, patent, trademark, copyright, 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 or of patents, trademarks, copyrights, trade dress, trade dress, and trade secrets or fars 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 solligation to defend and indemnify the Buyer is contingent to athe Buyer against allegations of any estimement or compromise. If an item sold hereunder is subject to a daim that infringes the Intellectual Property Rights of a third party, the Seller's obligation to defend and indemnify the Buyer is contract infringes the intellectual Property Rights of a third party, the Seller way all adains and the ante must applications for settlement or compromise. If an item sold hereunder is subject to a daim that infringes the Intellectual Property Rights of a third party, the Seller way at the foregoning. 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 daims 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. Lier

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. Waive

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 no status to example control of the Seller, including but not limited to, acidents, acts of God, elstruction 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 Sellerin writing, shall constitute a complete and exclusive statement of the terms of this in the security of the secur 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 In any othere contained on any part thereto puppers to exclude or result of minimal any nature prior and sour exclusion or metaculor or minimatery and the 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 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.

more than two (2) years after such cause of action accrues.

WHERE RELIABILITY MEETS PROFITABILITY





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AQUATROL | P.O. Box 2235 Chino Hills, CA 91709 · USA

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