





			Valve material	In/Out	Service flow rate (m³/h-gpm)	Backwash flow rate (m³/h-gpm)	Softener tank size	Filter tank size	Regeneration
		WS1TC	NORYL	34" or 1,25" M BSPT	6 / 27	6/27	6"- 21"	6"- 21"	DOWN FLOW
		WS1EI	NORYL	34" or 1,25" M BSPT	6 / 27	6/27	6"- 21"	6"- 21"	DOWN FLOW or UP FLOW
		TT1EI TWIN VALVE	NORYL	34" or 1,25" M BSPT	6 / 27	6 / 27	6"- 21"	6"- 16"	DOWN FLOW
RESIDENTIAL		WS1CI	NORYL	¾" or 1,25" M BSPT	6 / 27	6/27	6"- 21"	6"- 21"	DOWN FLOW or UP FLOW
RESID		TT1CI TWIN VALVE	NORYL	¾" or 1,25" M BSPT	6/27	6/27	6"- 21"	6"- 21"	DOWN FLOW
		WS125TC	NORYL	1" or 1,25" M BSPT	7,7 / 34	7,3 / 32	6"- 21"	6"- 24"	DOWN FLOW
		WS125EI	NORYL	1" or 1,25" M BSPT	7,7 / 34	7,3 / 32	6"- 21"	6"- 24"	DOWN FLOW or UP FLOW
		.WS1125GI	NORYL	1" or 1,25" M BSPT	7,7 / 34	7,3 / 32	6"- 21"	6"- 24"	DOWN FLOW or UP FLOW
		WS15EI	Brass	1,5" F BSPT	15,9 / 70	11,8 / 52	12"- 30"	12"- 30"	DOWN FLOW or UP FLOW
		WS15CI	Brass	1,5" F BSPT	15,9 / 70	11,8 / 52	12"- 30"	12"- 30"	DOWN FLOW or UP FLOW
COMMERCIAL		WS2EI	Brass	2" F BSPT	26,1 / 115	18,2 / 80	12"- 48"	12"- 36"	DOWN FLOW or UP FLOW
СОММ		WSZEI QC	Brass	2" F BSPT	26,1 / 115	18,2 / 80	12"- 48"	12"- 36"	DOWN FLOW or UP FLOW
		WS2CI	Brass	2" F BSPT	26,1 / 115	18,2 / 80	12"- 48"	12"- 36"	DOWN FLOW or UP FLOW
		WS2CI QC	Brass	2" F BSPT	26,1 / 115	18,2 / 80	12"- 48"	12"- 36"	DOWN FLOW or UP FLOW
INDUSTRIAL		WS2H	Brass	2" F BSPT or 2,5" QC	28,4 / 125	28,4 / 125	18"- 63"	18"- 43"	DOWN FLOW
SNONI		WS3	Brass	3" F BSPT	56,8 / 250	50 / 220	18"- 63"	18"- 63"	DOWN FLOW

Chlorinator	Meter	Mixing valve	Hot water	Timer type	Adjustable cycles	Quick connection	Sun/Power battery	Duplex	Multiplex
NO	OPTION	OPTION	NO	TC	NO	NO	OPTION	NO	NO
NO	OPTION	OPTION	NO	El	NO	NO	OPTION	✓	NOT RECOMMENDED
NO	OPTION	NOT AVAILABLE	NO	El	NO	NO	OPTION	Twin	NO
NO	OPTION	OPTION	NO	CI	V	NO	OPTION	V	MAX 6 (*)
NO	OPTION	NOT AVAILABLE	NO	CI	√	NO	OPTION	Twin	NO
NO	OPTION	OPTION	NO	TC	NO	NO	OPTION	NO	NO
NO	OPTION	OPTION	NO	El	NO	NO	OPTION	V	NOT RECOMMENDED
NO	OPTION	OPTION	NO	CI	√	NO	OPTION	V	MAX 6 (*)
NO	OPTION	OPTION	NO	El	NO	NO	OPTION	V	NOT RECOMMENDED
NO	OPTION	OPTION	NO	CI	√	NO	OPTION	V	MAX 6 (*)
NO	OPTION	OPTION	NO	El	NO	NO	OPTION	V	NOT RECOMMENDED
NO	OPTION	OPTION	NO	El	NO	√	OPTION	V	NOT RECOMMENDED
NO	OPTION	OPTION	NO	Cl	√	NO	OPTION	V	MAX 6 (*)
NO	OPTION	OPTION	NO	Cl	√	V	OPTION	V	MAX 6 (*)
NO	INCLUDED	NOT AVAILABLE	NO	CI	√	V	NO	V	MAX 4
NO	NOT INCLUDED	NOT AVAILABLE	NO	CI	✓	✓	NO	√	MAX 4
			· '			-		(*) WITH SYSTE	M CONTROLLER BOX





WS1TC

WATER SPECIALIST CONTROL VALVE

- Top mount control valve suited for automatic residential water softening or filtration syste
- Single valve, available also for twin alternating, twin parallel and multitank systems
 Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
 More informative 4 digit LCD Display with Status Indicators
- Solid state microprocessor with easy access front panel settings
- Service flow rate of 27 gpm, backwash 27 gp
 Backwash and brining ability to 21" diameter tanks
- Front panel display for time of day, days until next regeneration
- Days between regeneration feature: 1–99 days standard; 7-day optional
- Double backwash feature offers optimum regeneration, cleaning ability and efficienc
- 10 selectable pre-programmed regeneration cycles
- Coin Cell Lithium battery back-up with a 8 hour carry over
- Auto detection of 50/60 Hz line frequency, with automatic 12/24 hour time keeping formats
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refil
- · Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V1TCDTD-03 (*)	WS1TC VALVE DN T I-D	Softener	9"	Downflow	Not included	Not included	4	160	
V1TCDTD-M03 (*)	WS1TC VALVE DN T I-D W/MIXING VALVE	Softener	9"	Downflow	Not included	Included	4	160	
V1TCDTE-03 (*)	WS1TC VALVE DN T I-E	Softener	10"	Downflow	Not included	Not included	4	160	
V1TCDTE-M03 (*)	WS1TC VALVE DN T I-E W/MIXING VALVE	Softener	10"	Downflow	Not included	Included	4	160	
V1TCDTF-03 (*)	WS1TC VALVE DN T I-F	Softener	12"	Downflow	Not included	Not included	4	160	
V1TCDTF-M03 (*)	WS1TC VALVE DN T I-F W/MIXING VALVE	Softener	12"	Downflow	Not included	Included	4	160	
V1TCBTZ-03 (*)	WS1TC VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	4	160	

(*) Not available in stock.

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX). Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100.

1,05" Top Distributor is not included. Please order separately: reference order number AV071.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1" TC Control Specifications

_	
Inlet/Outlet Fittings (to order separately)	³ / ₄ " to 1.25" Male BSPT
Cycles	
Valve Material	Noryl (1) or equivalent
Regeneration	* ' '
FLOW RATES	
Service @15 psi drop (includes bypass)	6.12 m³ /h
Backwash @ 25 psi drop (includes bypass)	
Cv Service	
Cv Backwash	
OPERATING PRESSURES	
Minimum/Maximum	1 4 - 8 6 bar
William Willia	
OPERATING TEMPERATURES	
Minimum/Maximum	4° – 43° C
DIMENSIONS & WEIGHT	
Distributor Pilot	1.05" OD Pipe
Drain Line	• • • • • • • • • • • • • • • • • • •
Brine Line	
Mounting Base	
Height From Top Of Tank	
Weight	
•	-
ELECTRICAL SPECIFICATIONS	DOWED CURRLY
	POWER SUPPLY
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	500 mA
TANK APPLICATIONS	
Water Softener	6" - 21" diameter
Water Filter	6" 01" diameter
	6 – 21 diameter
	0 – 21 diameter
CYCLES OF OPERATION (Softener Downflow)	Range of times minutes
CYCLES OF OPERATION (Softener Downflow) Cycle	Range of times minutes
CYCLES OF OPERATION (Softener Downflow) Cycle 1. Backwash 1st (upflow)	Range of times minutes
CYCLES OF OPERATION (Softener Downflow) Cycle 1. Backwash 1 st (upflow)	Range of times minutes 3 - 12 50 - 70
CYCLES OF OPERATION (Softener Downflow) Cycle 1. Backwash 1st (upflow)	Range of times minutes 50 - 70 3 - 12
CYCLES OF OPERATION (Softener Downflow) Cycle 1. Backwash 1st (upflow)	Range of times minutes

Options: Backwash Filter, Bypass, Weather Cover







WS1EI

WATER SPECIALIST CONTROL VALVE

- · Top mount control valve suited for automatic residential water softening or filtration system
- Single valve, available also for twin alternating, twin parallel and multitank systems
- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- Solid state microprocessor with easy access front panel setting
- Front panel display for time of da , days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure di ferential
- Optional double backwash feature o fers optimum regeneration, cleaning ability and efficiency
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, secon backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with an 8 hour carry over
 Backwash and brining ability to 21" diameter tanks
- Downflow or upflow brining regeneration
- Level VI 15-volt output DC power supply provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- · Post treated water regenerant refill
- · Reliable and proven DC drive
- · Certified to NSF/ANSI 44, 61 and 372.

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V1EIDMC-03 (*)	WS1EI VALVE DN M I-C	Softener	8"	Downflow	Included	Not included	4	160	
V1EIDMC-M03 (*)	WS1EI VALVE DN M I-C W/MIXING VALVE	Softener	8"	Downflow	Included	Included	4	160	
V1EIDMD-03 (*)	WS1EI VALVE DN M I-D	Softener	9"	Downflow	Included	Not included	4	160	
V1EIDMD-M03 (*)	WS1EI VALVE DN M I-D W/MIXING VALVE	Softener	9"	Downflow	Included	Included	4	160	
V1EIDME-03 (*)	WS1EI VALVE DN M I-E	Softener	10"	Downflow	Included	Not included	4	160	
V1EIDME-M03 (*)	WS1EI VALVE DN M I-E W/MIXING VALVE	Softener	10"	Downflow	Included	Included	4	160	
V1EIDMF-03 (*)	WS1EI VALVE DN M I-F	Softener	12"	Downflow	Included	Not included	4	160	
V1EIDMF-M03 (*)	WS1EI VALVE DN M I-F W/MIXING VALVE	Softener	12"	Downflow	Included	Included	4	160	
V1EIUMA-03 (*)	WS1EI VALVE UP M I-A	Softener	8"	Uplflow	Included	Not included	4	160	
V1EIUMA-M03 (*)	WS1EI VALVE UP M I-A W/MIXING VALVE	Softener	8"	Uplflow	Included	Included	4	160	
V1EIUMB-03 (*)	WS1EI VALVE UP M I-B	Softener	9"	Uplflow	Included	Not included	4	160	
V1EIUMB-M03 (*)	WS1EI VALVE UP M I-B W/MIXING VALVE	Softener	9"	Uplflow	Included	Included	4	160	
V1EIUMC-03 (*)	WS1EI VALVE UP M I-C	Softener	10"	Uplflow	Included	Not included	4	160	
V1EIUMC-M03 (*)	WS1EI VALVE UP M I-C W/MIXING VALVE	Softener	10"	Uplflow	Included	Included	4	160	
V1EIDTE-03 (*)	WS1EI VALVE DN T I-E	Softener	10"	Downflow	Not included	Not included	4	160	
V1EIDTE-M03 (*)	WS1EI VALVE DN T I-E W/MIXING VALVE	Softener	10"	Downflow	Not included	Included	4	160	
V1EIBMZ-03 (*)	WS1EI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	4	160	
V1EIBTZ-03 (*)	WS1EI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	4	160	

(*) Not available in stock.

NOTE:

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX). Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100.

1,05" Top Distributor is not included. Please order separately: reference order number AV071.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1" El Control Specifications

-	-
Inlet/Outlet Fittings (to order separately)	3/4" to 1.25" Male BSPT
Cycles	
Valve Material	
Regeneration	•
	
FLOW RATES	
Service @15 psi/1 bar drop (includes bypass and meter)	6,12 m³/h
Backwash @ 25 psi/1.7 bar drop (includes bypass)	6,12 m³/h
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	40 4000
Minimum/Maximum	4º - 43ºC
METER	
Accuracy	± 50%
·	
Flow Rate RangeVolume Range	•
Totalizer	
10talizer	0,001 - 9.999.000 111
DIMENSIONS & WEIGHT	
Distributor Pilot	1.05" OD Pine
Drain Line	•
Brine Line	
Mounting Base	
Height From Top Of Tank	
Weight	
g	<u>-</u>
ELECTRICAL SPECIFICATIONS	DOWED CURRLY
	POWER SUPPLY
Supply Voltage	200VAC to 240VAC
Supply Frequency	50/60 Hz
Output Voltage	15VDC
Output Current	500 mA
TANK APPLICATIONS	
Water Softener	
Water Filter (2)	6" - 21" Diameter
CYCLES OF OPERATION	
CYCLES OF OPERATION	Coftonor Filtor
Cycle	<u>Softener</u> <u>Filter</u> Range of time in minutes
	•
1. Backwash 1 st (upflow) 2. Regenerate Draw/Slow Rinse (downflow)	
Regenerate Draw/Slow Rinse (downflow) Backwash 2 nd (upflow)	
4. Fast Rinse (downflow) 5.Regenerant Refill (in service with treated water)	
,	U, I -33,U
6. Service (downflow)	

Options: Backwash Filter, Weather Cover







TT1EI

TWIN ALTERNATING CONTROL VALVE

- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- Service flow 106 lpm (6.36 m3/h) (28 gpm), backwash flow 57 lpm (3.40 m 3/h) (15 gpm) with meter and bypas
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer), and Tank in Service Indication
- · Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficienc
- · Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill and downflow servi
- Coin Cell Lithium battery back-up with a 8 hour carry over
 Backwash and brining ability to 21" diameter tanks
- Downflow or upflow brining regenerati
- Level VI 15-volt output DC power supply provides safe and easy installation
- Treated/Soft water post fill and regeneration cycle
- · Reliable and proven DC drives
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
VTT1EIDME-03	TT1EI VALVE DN M I-E	Softener	10"	Downflow	Included	Not included	1		

If you need a different Injector Tank Size, please order separately the relevant Injector and the ref. V4052-01 (Interconnect Kit)

NOTE:

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX). Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100.

1,05" Top Distributors are not included. Please order separately: reference order number AV071.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1" El Twin Alternating Specifications

Inlet/Outlet Fittings (to order separately)	3/4" to 1.25" Male BSPT
Cycles	
Valve Material	
Regeneration	
1.090.10.41.0.	
FLOW RATES	
Service @15 psi/1 bar drop (includes bypass and meter)	6.36 m³/h
Backwash @ 25 psi/1.7 bar drop (includes bypass)	
Cv Service	
Cv Backwash	· · · · · · · · · · · · · · · · · · ·
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	
Minimum/Maximum	10 _ 130 C
IVIII III III III III III III III III I	4 – 43 0
METER	
Accuracy	± 5%
Flow Rate Range	
Gallon Range	•
Totalizer	
DIMENSIONS & WEIGHT	
Distributor Pilot	1,05" OD Pipe
Drain Line	¾" or 1" Male NPT
Brine Line	3/8" or ½" OD Poly Tube Compression
Mounting Base	2 ½" - 8 NPSM
Height From Top Of Tank	
Weight	
ELECTRICAL SPECIFICATIONS	POWER SUPPLY
Supply Voltage	200VAC to 240VAC
Supply Frequency	
Output Voltage	
Output Current	
Output Ouriont	000 IIIA
TANK APPLICATIONS	
Water Softener	6" - 21" diameter
Water Filter (2)	6" – 16" diameter
• •	
CYCLES OF OPERATION (Softener / Filter Downflow)	
	<u>Softener</u> <u>Filter</u>
Cycle	Range of time in minutes
1. Backwash 1 st	
Regenerate Draw/Slow Rinse	
3. Backwash 2 nd	
4. Fast Rinse	
5.Regenerant Refill	0,1 - 99,0 or off
6. Service (downflow)	

Options: Backwash Filter, Bypass, Weather Cover







WATER SPECIALIST CONTROL VALVE



- Top mount control valve suited for automatic residential water softening or filtration syste
- Single valve, available also for twin alternating, twin parallel and multitank systems
 Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- · Solid state microprocessor with easy access front panel settings
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- Days override feature; 1 28 days available
- Backwash and brining ability to 21" diameter tanks
- Downflow/upflow regenerati
- Stores system configuration and operation data in nonvolatile memor
- · Coin Cell Lithium battery back-up with a 24 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
 Control valve design provides optimum service and backwash rates
- Pre or Post treated water regenerant refil
- Mixing valve option available
- · Low salt alarm
- 24-hour clock
- Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V1CIDMC-03	WS1CI VALVE DN M I-C	Softener	8"	Downflow	Included	Not included	4	160	
V1CIDMC-M03	WS1CI VALVE DN M I-C W/MIXING VALVE	Softener	8"	Downflow	Included	Included	4	160	
V1CIDMD-03 (*)	WS1CI VALVE DN M I-D	Softener	9"	Downflow	Included	Not included	4	160	
V1CIDMD-M03 (*)	WS1CI VALVE DN M I-D W/MIXING VALVE	Softener	9"	Downflow	Included	Included	4	160	
V1CIDME-03	WS1CI VALVE DN M I-E	Softener	10"	Downflow	Included	Not included	4	160	
V1CIDME-M03	WS1CI VALVE DN M I-E W/MIXING VALVE	Softener	10"	Downflow	Included	Included	4	160	
V1CIDMF-03 (*)	WS1CI VALVE DN M I-F	Softener	12"	Downflow	Included	Not included	4	160	
V1CIDMF-M03 (*)	WS1CI VALVE DN M I-F W/MIXING VALVE	Softener	12"	Downflow	Included	Included	4	160	
V1CIUMA-03	WS1CI VALVE UP M I-A	Softener	8"	Uplflow	Included	Not included	4	160	
V1CIUMA-M03 (*)	WS1CI VALVE UP M I-A W/MIXING VALVE	Softener	8"	Uplflow	Included	Included	4	160	
V1CIUMB-03 (*)	WS1CI VALVE UP M I-B	Softener	9"	Uplflow	Included	Not included	4	160	
V1CIUMB-M03 (*)	WS1CI VALVE UP M I-B W/MIXING VALVE	Softener	9"	Uplflow	Included	Included	4	160	
V1CIUMC-03 (*)	WS1CI VALVE UP M I-C	Softener	10"	Uplflow	Included	Not included	4	160	
V1CIUMC-M03	WS1CI VALVE UP M I-C W/MIXING VALVE	Softener	10"	Uplflow	Included	Included	4	160	
V1CIDTE-03 (*)	WS1CI VALVE DN T I-E	Softener	10"	Downflow	Not included	Not included	4	160	
V1CIDTE-M03 (*)	WS1CI VALVE DN T I-E W/MIXING VALVE	Softener	10"	Downflow	Not included	Included	4	160	
V1CIBMZ-03 (*)	WS1CI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	4	160	
V1CIBTZ-03 (*)	WS1CI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	4	160	

(*) Not available in stock.

NOTE

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100.

1,05" Top Distributor is not included. Please order separately: reference order number AV071

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1" CI Control Specifications

<u> </u>	-
Inlet/Outlet Fittings (to order separately)	3/" to 1 25" Male BSPT
Cycles	
Valve Material	
Regeneration	•
FLOW RATES	
Service @ 15 psi/1 bar drop (includes bypass and meter)	6,12 m³/h
Backwash @ 25 psi/1.7 bar drop (includes bypass)	6,12 m³/h
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
ODERATING TEMPERATURES	
OPERATING TEMPERATURES Minimum/Maximum	40 400 0
Minimum/Maximum	4° – 43° C
METER	
Accuracy	+ 5%
Flow Rate Range	
Volume Range	•
Totalizer	
10001201	1 111 00.000 111
DIMENSIONS & WEIGHT	
Distributor Pilot	1.05" OD Pipe
Drain Line	
Brine Line	
Mounting Base	
Height From Top Of Tank	
Weight	
ELECTRICAL SPECIFICATIONS	POWER SUPPLY
Cumple Vallage	000//4 C+= 040//4 C
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	900 IIIA
TANK APPLICATIONS	
Water Softener	6" - 21" Diameter
Water Filter (2)	
(-)	
CYCLES OF OPERATION	
Choose up to nine regeneration cycles, in any order, with a	wide range of available values:
Cycle	Range of values
Backwash	1 - 120 minutes
Rinse	1 - 120 minutes
Pause (service)	1 - 480 minutes
Brine (co-current)	
Brine (counter-current)	1 - 180 minutes
Refill (softener)	•
Refill (filter)	0,2 - 76.00 Liters

Options: Backwash Filter, Bypass, Weather Cover







TT1CI

TWIN ALTERNATING CONTROL VALVE

- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- Service flow 106 lpm (6.36 m3/h) (28 gpm), backwash flow 57 lpm (3.40 m3/h) (15 gpm) with meter and bypas installed
- · Solid state microprocessor with easy access front panel settings
- · Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- Days override feature; 1 28 days available
- · Backwash and brining ability to 21" diameter tanks
- Downflow/upflow regenerati
- · Stores system configuration and operation data in nonvolatile memor
- · Coin Cell Lithium battery back-up with a 24 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- · Control valve design provides optimum service and backwash rates
- Soft/treated water regeneration
- Pre or Post soft/treated water regenerant refil
- Low salt alarm
- 24-hour clock
- Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
VTT1CIDME-03	TT1CI VALVE DN M I-E	Softener	10"	Downflow	Included	Not included	1		

If you need a different Injector Tank Size, please order separately the relevant Injector and the ref. V4052-01 (Interconnect Kit)

NOTE:

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX). Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100. 1,05" Top Distributors are not included. Please order separately: reference order number AV071.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1" CI Twin Alternating Specifications

Inlet/Outlet Fittings (to order separately)		
Cycles up to 9 Valve Material Noryl (1) or equivalent Regeneration downflow or upflow FLOW RATES Service @ 15 psi/1 bar drop (includes bypass)	Inlet/Outlet Fittings (to order separately)	3/" to 1 25" Male BSPT
Valve Material		
Regeneration		•
Service @ 15 psi/1 bar drop (includes bypass and meter)		• • •
Service @ 15 psi/1 bar drop (includes bypass)	1.0901.0141.011	and determined of aprilate
Backwash @ 25 psi/1.7 bar drop (includes bypass)	FLOW RATES	
Backwash @ 25 psi/1.7 bar drop (includes bypass)	Service @ 15 psi/1 bar drop (includes bypass and meter)	6.36 m³/h
CV Service	• • • • • • • • • • • • • • • • • • • •	
OPERATING PRESSURES Minimum/Maximum		
OPERATING PRESSURES		
Minimum/Maximum		,
OPERATING TEMPERATURES		
METER ± 5% Accuracy ± 5% Flow Rate Range 0,95 - 102 lpm Volume Range 0,02 - 5,700 m³ Totalizer 1 m³ - 99.999 m³ DIMENSIONS & WEIGHT 1.05" OD Pipe Drain Line 3/4" or 1" NPT Brine Line 3/6" or 7" OD Poly Tube Compression Mounting Base 2 ½" 8 NPSM Height From Top Of Tank 187 mm Weight 7,25 kg ELECTRICAL SPECIFICATIONS POWER SUPPLY Supply Voltage 200VAC to 240VAC Supply Frequency 50/60Hz Output Voltage 15VDC Output Current 500 mA TANK APPLICATIONS 6" - 21" Diameter Water Softener 6" - 21" Diameter Water Filter 6" - 21" Diameter CYCLES OF OPERATION Range of values Range of values 1 - 120 minutes Backwash 1 - 120 minutes Rinse 1 - 120 minutes Pause (service) 1 - 180 minutes Brine (counter-current) 1 - 180 minutes	Minimum/Maximum	1,4 - 8,6 bar
METER ± 5% Accuracy ± 5% Flow Rate Range 0,95 - 102 lpm Volume Range 0,02 - 5,700 m³ Totalizer 1 m³ - 99.999 m³ DIMENSIONS & WEIGHT 1.05" OD Pipe Drain Line 3/4" or 1" NPT Brine Line 3/6" or 7" OD Poly Tube Compression Mounting Base 2 ½" 8 NPSM Height From Top Of Tank 187 mm Weight 7,25 kg ELECTRICAL SPECIFICATIONS POWER SUPPLY Supply Voltage 200VAC to 240VAC Supply Frequency 50/60Hz Output Voltage 15VDC Output Current 500 mA TANK APPLICATIONS 6" - 21" Diameter Water Softener 6" - 21" Diameter Water Filter 6" - 21" Diameter CYCLES OF OPERATION Range of values Range of values 1 - 120 minutes Backwash 1 - 120 minutes Rinse 1 - 120 minutes Pause (service) 1 - 180 minutes Brine (counter-current) 1 - 180 minutes		
METER		
Accuracy	Minimum/Maximum	4° – 43° C
Accuracy		
Flow Rate Range		
Volume Range		
DIMENSIONS & WEIGHT	· · · · · · · · · · · · · · · · · · ·	
DIMENSIONS & WEIGHT Distributor Pilot	· · · · · · · · · · · · · · · · · · ·	·
Distributor Pilot	Totalizer	1 m³ - 99.999 m³
Distributor Pilot	DIMENGIANA A WEIGHT	
Drain Line 34" or 1" NPT Brine Line 3/s" or ½" OD Poly Tube Compression Mounting Base 2 ½"-8 NPSM Height From Top Of Tank 187 mm Weight 7,25 kg ELECTRICAL SPECIFICATIONS POWER SUPPLY Supply Voltage 200VAC to 240VAC Supply Frequency 50/60 Hz Output Voltage 15VDC Output Current 500 mA TANK APPLICATIONS 6" - 21" Diameter Water Softener 6" - 21" Diameter Water Filter 6" - 21" Diameter CYCLES OF OPERATION Range of values Backwash 1 - 120 minutes Binse 1 - 120 minutes Rinse 1 - 120 minutes Pause (service) 1 - 480 minutes Brine (co-current) 1 - 180 minutes Brine (counter-current) 1 - 180 minutes Refill (softener) 0,05 - 90,00 Kg		4 0511 05 5
Brine Line		
Mounting Base		
Height From Top Of Tank		
Weight		
ELECTRICAL SPECIFICATIONS Supply Voltage		
Supply Voltage	Weight	7,25 kg
Supply Voltage	ELECTRICAL SPECIFICATIONS	DOWER SUDDIV
Supply Frequency	ELECTRICAL OF ECH ICATIONS	FOWER SOFFEI
Supply Frequency	Supply Voltage	200VAC to 240VAC
Output Voltage		
Output Current		
TANK APPLICATIONS Water Softener		
Water Softener		
Water Softener	TANK APPLICATIONS	
Water Filter		6" - 21" Diameter
Choose up to nine regeneration cycles, in any order, with a wide range of available values: Cycle Range of values Backwash		
Choose up to nine regeneration cycles, in any order, with a wide range of available values: Cycle Range of values Backwash		
Cycle Range of values Backwash 1 - 120 minutes Rinse 1 - 120 minutes Pause (service) 1 - 480 minutes Brine (co-current) 1 - 180 minutes Brine (counter-current) 1 - 180 minutes Refill (softener) 0,05 - 90,00 Kg		
Backwash	Choose up to nine regeneration cycles, in any order, with a	wide range of available values:
Rinse	•	•
Pause (service)	Backwash	1 - 120 minutes
Brine (co-current)	Rinse	1 - 120 minutes
Brine (counter-current)	Pause (service)	1 - 480 minutes
Refill (softener)	Brine (co-current)	1 - 180 minutes
Refill (softener)	· ·	
	· · · · · · · · · · · · · · · · · · ·	
Refill (filter)	Refill (filter)	

Options: Backwash Filter, Bypass, Weather Cover







WS125TC WATER SPECIALIST CONTROL VALVE

- Top mount control valve suited for automatic residential water softening or filtration syste
- Single valve, available also for twin alternating, twin parallel and multitank systems
- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- · More informative 4 digit LCD Display with Status Indicators
- Solid state microprocessor with easy access front panel settings
- Service flow rate of 34 gpm, backwash 32 gp
- Backwash and brining ability to 21" diameter tanks
- Front panel display for time of day, days until next regeneration
- Days between regeneration feature: 1–99 days standard; 7-day optional
- Double backwash feature offers optimum regeneration, cleaning ability and efficienc
- 10 selectable pre-programmed regeneration cycles
- · Coin Cell Lithium battery back-up with a 8 hour carry over
- Auto detection of 50/60 Hz line frequency, with automatic 12/24 hour time keeping formats
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refil
- Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V125CIDTE-08 (*)	WS125CI VALVE DN T I-E	Softener	10"	Downflow	Not included	Not included	2	96	
V125CIDTE-M08 (*)	WS125CI VALVE DN T I-E W/MIXING VALVE	Softener	10"	Downflow	Not included	Included	2	96	
V125CIDTF-08 (*)	WS125CI VALVE DN T I-F	Softener	12"	Downflow	Not included	Not included	2	96	
V125CIDTF-M08 (*)	WS125CI VALVE DN T I-F W/MIXING VALVE	Softener	12"	Downflow	Not included	Included	2	96	
V125CIDTG-08 (*)	WS125CI VALVE DN T I-G	Softener	13"	Downflow	Not included	Not included	2	96	
V125CIDTG-M08 (*)	WS125CI VALVE DN T I-G W/MIXING VALVE	Softener	13"	Downflow	Not included	Included	2	96	
V125CIBTZ-08 (*)	WS125CI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	2	96	

(*) Not available in stock.

NOTE

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX). Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100.

32 mm Top Distributor is not included. Please order separately: reference order number V-D1203-03.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1.25" TC Control Specifications

Inlet/Outlet Fittings (to order separately)	
Cycles	
Valve Material	
Regeneration	
FLOW RATES	
Service @15 psi drop	
Backwash @ 25 psi drop	32 gpm
Cv Service	8,8
Cv Backwash	6,4
OPERATING PRESSURES	
Minimum/Maximum	20 psi – 125 psi
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43°C
DIMENSIONS & WEIGHT	
Distributor Pilot	
Drain Line	
Brine Line	
Mounting Base	
Height From Top Of Tank	
Weight	
Wolght	2 Ng
ELECTRICAL SPECIFICATIONS	
	POWER SUPPLY
Supply Voltage	200VAC to 240VAC
Supply VoltageSupply Frequency	
Supply Frequency	50/60 Hz
	50/60Hz 15VDC
Supply Frequency Output Voltage Output Current	50/60Hz 15VDC
Supply Frequency Output Voltage Output Current TANK APPLICATIONS	50/60 Hz 15VDC 500 mA
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener	50/60 Hz 15VDC 500 mA 6" – 21" diameter
Supply Frequency Output Voltage Output Current TANK APPLICATIONS	50/60 Hz 15VDC 500 mA 6" – 21" diameter
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener	50/60 Hz 15VDC 500 mA 6" – 21" diameter
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter (3)	50/60 Hz 15VDC 500 mA 6" – 21" diameter
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter (3) CYCLES OF OPERATION (Softener Downflow)	
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter (3) CYCLES OF OPERATION (Softener Downflow) Cycle	50/60 Hz
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter (3) CYCLES OF OPERATION (Softener Downflow) Cycle 1. Backwash 1st(upflow) 2. Regenerate Draw/Slow Rinse (downflow)	50/60 Hz
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter (3) CYCLES OF OPERATION (Softener Downflow) Cycle 1. Backwash 1st(upflow) 2. Regenerate Draw/Slow Rinse (downflow) 3. Backwash 2nd (upflow)	
Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter (3) CYCLES OF OPERATION (Softener Downflow) Cycle 1. Backwash 1st(upflow) 2. Regenerate Draw/Slow Rinse (downflow)	

Options: Backwash Filter, Bypass, Weather Cover







WS125EI

WATER SPECIALIST CONTROL VALVE

- · Top mount control valve suited for automatic residential water softening or filtration syste
- Single valve, available also for twin alternating, twin parallel and multitank systems
- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- · Optional double backwash feature offers optimum regeneration, cleaning ability and efficienc
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill and downflow serv
- Coin Cell Lithium battery back-up with an 8 hour carry over
 Backwash and brining ability to 21" diameter tanks
- · Downflow or upflow brining regenerati
- · Level VI 15-volt output DC power supply provides safe and easy installation
- · Control valve design provides optimum service and backwash rates
- Post treated water regenerant refil
- 24 Hour Clock
- · Mixing Valve option available
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V125EIDME-08 (*)	WS125EI VALVE DN M I-E	Softener	10"	Downflow	Included	Not included	2	96	
V125EIDME-M08 (*)	WS125EI VALVE DN M I-E W/MIXING VALVE	Softener	10"	Downflow	Included	Included	2	96	
V125EIDMF-08 (*)	WS125EI VALVE DN M I-F	Softener	12"	Downflow	Included	Not included	2	96	
V125EIDMF-M08 (*)	WS125EI VALVE DN M I-F W/MIXING VALVE	Softener	12"	Downflow	Included	Included	2	96	
V125EIDMH-08 (*)	WS125EI VALVE DN M I-H	Softener	14"	Downflow	Included	Not included	2	96	
V125EIDMH-M08 (*)	WS125EI VALVE DN M I-H W/MIXING VALVE	Softener	14"	Downflow	Included	Included	2	96	
V125EIDMI-08 (*)	WS125EI VALVE DN M I-I	Softener	16"	Downflow	Included	Not included	2	96	
V125EIDMI-M08 (*)	WS125EI VALVE DN M I-I W/MIXING VALVE	Softener	16"	Downflow	Included	Included	2	96	
V125EIDMK-08 (*)	WS125EI VALVE DN M I-K	Softener	21"	Downflow	Included	Not included	2	96	
V125EIDMK-M08 (*)	WS125EI VALVE DN M I-K W/MIXING VALVE	Softener	21"	Downflow	Included	Included	2	96	
V125EIUMD-08 (*)	WS125EI VALVE UP M I-D	Softener	12"	Uplflow	Included	Not included	2	96	
V125EIUMD-M08 (*)	WS125EI VALVE UP M I-D W/MIXING VALVE	Softener	12"	Uplflow	Included	Included	2	96	
V125EIUMF-08 (*)	WS125EI VALVE UP M I-F	Softener	14"	Uplflow	Included	Not included	2	96	
V125EIUMF-M08 (*)	WS125EI VALVE UP M I-F W/MIXING VALVE	Softener	14"	Uplflow	Included	Included	2	96	
V125EIDTF-08 (*)	WS125EI VALVE DN T I-F	Softener	12"	Downflow	Not included	Not included	2	96	
V125EIDTF-M08 (*)	WS125EI VALVE DN T I-F W/MIXING VALVE	Softener	12"	Downflow	Not included	Included	2	96	
V125EIBMZ-08 (*)	WS125EI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	2	96	
V125EIBTZ-08 (*)	WS125EI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	2	96	

(*) Not available in stock.

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100.

32 mm Top Distributor is not included. Please order separately: reference order number V-D1203-03.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1.25" El Control Specifications

<u> </u>	<u> </u>
Inlet/Outlet Fittings (to order separately)	1" to 1,5" Male BSPT
Cycles	
Valve Material	Noryl or equivalent
Regeneration	downflow or upflow
FLOW RATES	
Service @15 psi/1 bar drop (includes meter)	7.7 m ³ /h
Backwash @ 25 psi/1.7 bar drop	
Backwasii ⊕ 25 psi/1./ bai drop	
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43°C
William Waxing III	
METER	
Accuracy	
Flow Rate Range	•
Volume Range	
Totalizer	0,001 - 9.999.000 m³
DIMENSIONS & WEIGHT	
Distributor Pilot	
Drain Line	
Brine Line	
Mounting Base	
Height From Top Of Tank	
Weight	
ELECTRICAL OREGIFICATIONS	
ELECTRICAL SPECIFICATIONS	POWER SUPPLY
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	
Output Outfort	
TANK APPLICATIONS	
Water Softener	
Water Filter	6" - 24" Diameter
CYCLES OF OPERATION	
	<u>Softener</u> <u>Filter</u>
Cycle	Range of time in minutes
1. Backwash 1st (upflow)	
2. Regenerate Draw/Slow Rinse (downflow)	
3. Backwash 2 nd (upflow)	
4. Fast Rinse (downflow)	
5.Regenerant Refill (in service with treated water)	
6. Service (downflow)	•

Options: Backwash Filter, Weather Cover







WS125CI WATER SPECIALIST CONTROL VALVE

- Top mount control valve suited for automatic residential water softening or filtration syste
- Single valve, available also for twin alternating, twin parallel and multitank systems
 Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- Solid state microprocessor with easy access front panel settings
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- Days override feature; 1 28 days available
- Backwash and brining ability to 21" diameter tanks
- Downflow regeneratio
- Stores system configuration and operation data in nonvolatile memor
- Coin Cell Lithium battery back-up with a 24 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- · Control valve design provides optimum service and backwash rates
- Pre or Post treated water regenerant refil Mixing valve option available
- Low salt alarm
- 24-hour clock
- Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V125CIDME-08	WS125CI VALVE DN M I-E	Softener	10"	Downflow	Included	Not included	2	96	
V125CIDME-M08 (*)	WS125CI VALVE DN M I-E W/MIXING VALVE	Softener	10"	Downflow	Included	Included	2	96	
V125CIDMF-08 (*)	WS125CI VALVE DN M I-F	Softener	12"	Downflow	Included	Not included	2	96	
V125CIDMF-M08	WS125CI VALVE DN M I-F W/MIXING VALVE	Softener	12"	Downflow	Included	Included	2	96	
V125CIDMH-08 (*)	WS125CI VALVE DN M I-H	Softener	14"	Downflow	Included	Not included	2	96	
V125CIDMH-M08 (*)	WS125CI VALVE DN M I-H W/MIXING VALVE	Softener	14"	Downflow	Included	Included	2	96	
V125CIDMI-08 (*)	WS125CI VALVE DN M I-I	Softener	16"	Downflow	Included	Not included	2	96	
V125CIDMI-M08 (*)	WS125CI VALVE DN M I-I W/MIXING VALVE	Softener	16"	Downflow	Included	Included	2	96	
V125CIDMK-08 (*)	WS125CI VALVE DN M I-K	Softener	21"	Downflow	Included	Not included	2	96	
V125CIDMK-M08 (*)	WS125CI VALVE DN M I-K W/MIXING VALVE	Softener	21"	Downflow	Included	Included	2	96	
V125CIUMD-08 (*)	WS125CI VALVE UP M I-D	Softener	12"	Uplflow	Included	Not included	2	96	
V125CIUMD-M08 (*)	WS125CI VALVE UP M I-D W/MIXING VALVE	Softener	12"	Uplflow	Included	Included	2	96	
V125CIUMF-08 (*)	WS125CI VALVE UP M I-F	Softener	14"	Uplflow	Included	Not included	2	96	
V125CIUMF-M08 (*)	WS125CI VALVE UP M I-F W/MIXING VALVE	Softener	14"	Uplflow	Included	Included	2	96	
V125CIDTF-08 (*)	WS125CI VALVE DN T I-F	Softener	12"	Downflow	Not included	Not included	2	96	
V125CIDTF-M08 (*)	WS125CI VALVE DN T I-F W/MIXING VALVE	Softener	12"	Downflow	Not included	Included	2	96	
V125CIBMZ-08 (*)	WS125CI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	2	96	
V125CIBTZ-08 (*)	WS125CI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	2	96	

(*) Not available in stock.

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX). Drain Line Flow Controls (DLFC) washer is not included. Please order separately: reference order number V3162-007 through V3162-100.

32 mm Top Distributor is not included. Please order separately: reference order number V-D1203-03. Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1.25" CI Control Specifications

Inlet/Outlet Fittings (to order separately)	1" to 1,5" Male BSPT
Cycles	
Valve Material	
Regeneration	downflow or upflow
FLOW RATES	
Service @ 15 psi/1 bar drop (includes meter)	7,7 m³/h
Backwash @ 25 psi/1.7 bar drop	7,3 m³/h
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	
Minimum/Maximum	4° – 43° C
METER	
Accuracy	± 5%
Flow Rate Range	
Volume Range	•
Totalizer	
DIMENSIONS & WEIGHT	
Distributor Pilot	
Drain Line	•
Brine Line	
Mounting Base	
Height From Top Of Tank	
Weight	
ELECTRICAL SPECIFICATIONS	DOWED CURRIN
	POWER SUPPLY
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	500 mA
TANK APPLICATIONS	
Water Softener	6" - 21" Diameter
Water Filter	6" - 24" Diameter
CYCLES OF OPERATION	
Choose up to nine regeneration cycles, in any order	
Cycle	Range of values
Backwash	
Rinse	
Pause (service)	1 - 480 minutes
Brine (co-current)	1 - 180 minutes
Refill (softener)	0.05 - 90.00 Kg
Refill (filter)	0.2 - 76.00 Liters

Options: Backwash Filter, Bypass, Weather Cover







WS15EI

WATER SPECIALIST CONTROL VALVE

- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Epoxy coated lead free brass valve body*
- · Economical optional meter
- Service flow rate of 265 lpm (15.9 m3/h) (70 gpm), backwash 197 lpm (1.8 m3/h) (52 gpm)
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- · Optional double backwash feature offers optimum regeneration, cleaning ability and efficienc
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining or upflow brining, slo rinse, second backwash, fast rinse, refill and downflow servi
- · Coin Cell Lithium battery back-up with a 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refil
- 24 hour clock
- · Reliable and proven DC drive
- · Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V15EIDMB-05 (*)	WS15EI VALVE DN M I-B	Softener	12"	Downflow	Included	Not included	1		
V15EIDMD-05 (*)	WS15EI VALVE DN M I-D	Softener	14"	Downflow	Included	Not included	1		
V15EIDMF-05 (*)	WS15EI VALVE DN M I-F	Softener	18"	Downflow	Included	Not included	1		
V15EIDMG-05 (*)	WS15EI VALVE DN M I-G	Softener	21"	Downflow	Included	Not included	1		
V15EIUMB-05 (*)	WS15EI VALVE UP M I-B	Softener	14"	Uplflow	Included	Not included	1		
V15EIUMD-05 (*)	WS15EI VALVE UP M I-D	Softener	18"	Uplflow	Included	Not included	1		
V15EIDTD-05 (*)	WS15EI VALVE DN T I-D	Softener	14"	Downflow	Not included	Not included	1		
V15EIDTF-05 (*)	WS15EI VALVE DN T I-F	Softener	18"	Downflow	Not included	Not included	1		
V15EIDTG-05 (*)	WS15EI VALVE DN T I-G	Softener	21"	Downflow	Not included	Not included	1		
V15EIBMZ-05 (*)	WS15EI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	1		
V15EIBTZ-05 (*)	WS15EI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	1		

(*) Not available in stock.

NOTE:

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately. For 3/4" drain fitting (V3158-04), Flow rates 0.07 - 10.0 gpm: reference order numbers V3162-007 through V3162-100. For 1" drain fitting (V3008-05), Flow rates 9.0 - 25.0 gpm: reference order numbers V3190-090 through V3190-250. For 1.25" x 1.5" drain fittings (V3079BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-007 through V3162-100, and V3190-090 through V3190-250. 50 mm Top Distributor is not included. Please order separately: reference order numbers V-D1199-04 or V-D1300.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1.5" El Control Specifications

•	<u> </u>
Inlet/Outlet	1 5" Female BSDT
Cycles	·
Valve Material	
Regeneration	downlow of upliow
CONTROL VALVE FLOW RATES	
Service @ 1 bar/15 psi drop (includes meter)	15,9 m³/h
Backwash @ 1.7/25 psi bar drop	11,8 m³/h)
OPERATING PRESSURES	
OPERATING PRESSURES	4.4.001
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43° C
METER SPECIFICATIONS	
Accuracy	±5%
Flow Rate Range	
Volume Range	
Totalizer	
10001201	
DIMENSIONS & WEIGHT	
Distributor Pilot	
Drain Line Connection	1.25" Female NPT
Adapter Included	3/4" Male NPT Elbow
Brine Line Connection	
Adapter Included	
Mounting Base	
Height From Top Of Tank	
Shipping Weight With Meter	
	, •
ELECTRICAL SPECIFICATIONS	POWER SUPPLY
Oh. Walkana	
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	500 mA
TANK APPLICATIONS	
Water Softener	12" - 30" Diameter (4)
Water Filter (3)	` ,
water Filter (3)	12 - 30 Diameter
CYCLES OF OPERATION	
	Softener Filter
Cycle	Range of time in minutes
1. Backwash 1st (upflow)	
Regenerate Draw/Slow Rinse (downflow)	
3. Backwash 2 nd (upflow)	
4. Fast Rinse (downflow)	
5.Regenerant Refill (in service with treated water)	
6. Service (downflow)	
o. Oci vice (downinow)	

Options: Backwash Filter, Weather Cover







WS15CI

WATER SPECIALIST CONTROL VALVE

- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Epoxy coated lead free brass valve body*
- · Economical stainless steel optional meter assembly
- Service flow rate of 265 lpm (15.9 m3/h) (70 gpm) backwash 197 lpm (11.8 m3/h) (52 gpm)
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining and current flow
- Four methods to initiate the downflow regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- · Days override feature; 1-28 days available
- Level VI 15-volt output DC power supply provides safe and easy installation
- · Pre or Post treated water regenerant refil
- Low salt alarm
- 24 hour clock
- · Coin Cell Lithium battery back-up with a 24 hour carry over
- · Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V15CIDMB-05 (*)	WS15CI VALVE DN M I-B	Softener	12"	Downflow	Included	Not included	1		
V15CIDMD-05 (*)	WS15CI VALVE DN M I-D	Softener	14"	Downflow	Included	Not included	1		
V15CIDMF-05 (*)	WS15CI VALVE DN M I-F	Softener	18"	Downflow	Included	Not included	1		
V15CIDMG-05 (*)	WS15CI VALVE DN M I-G	Softener	21"	Downflow	Included	Not included	1		
V15CIUMB-05 (*)	WS15CI VALVE UP M I-B	Softener	14"	Uplflow	Included	Not included	1		
V15CIUMD-05 (*)	WS15CI VALVE UP M I-D	Softener	18"	Uplflow	Included	Not included	1		
V15CIDTD-05 (*)	WS15CI VALVE DN T I-D	Softener	14"	Downflow	Not included	Not included	1		
V15CIDTF-05 (*)	WS15CI VALVE DN T I-F	Softener	18"	Downflow	Not included	Not included	1		
V15CIDTG-05	WS15CI VALVE DN T I-G	Softener	21"	Downflow	Not included	Not included	1		
V15CIBMZ-05 (*)	WS15CI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	1		
V15CIBTZ-05 (*)	WS15CI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	1		

(*) Not available in stock.

NOTE

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately. For 3/4" drain fitting (V3158-04), Flow rates 0.07 - 10.0 gpm: reference order numbers V3162-007 through V3162-100. For 1" drain fitting (V3008-05), Flow rates 9.0 - 25.0 gpm: reference order numbers V3190-090 through V3190-250.

For 1.25" x 1.5" drain fittings (V3079BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-007 through V3162-100, and V3190-090 through V3190-250. 50 mm Top Distributor is not included. Please order separately: reference order numbers V-D1199-04 or V-D1300.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 1.5" CI Control Specifications

Inlet/Outlet	1,5" Female BSPT
Cycles	up to 9
Valve Material	Lead free brass
Regeneration	downflow or upflow
CONTROL VALVE ELOW DATES	
CONTROL VALVE FLOW RATES	15 03/la
Service @ 1 bar/15 psi drop (includes meter)	
Backwash @ 1.7 bar/25 psi drop	11,6 11711
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	40 400 0
Minimum/Maximum	4° - 43° C
METER SPECIFICATIONS	
Accuracy	+ 5%
Flow Rate Range	
Volume Range	
Totalizer	
10.00.20	
DIMENSIONS & WEIGHT	
Distributor Pilot	50 mm OD
Drain Line Connection	
Adapter Included	
Brine Line Connection	
Adapter Included	
Mounting Base	
Height From Top Of Tank	
Shipping Weight With Meter	9,5 kg
ELECTRICAL SPECIFICATIONS	
	POWER SUPPLY
Supply Voltage	200VAC to 240VAC
Supply Frequency	
Output Voltage	15VDC
Output Current	500 mA
TANK ADDI IOATIONO	
TANK APPLICATIONS	10" 20" Diameter (4)
Water Softener	· ,
Water Filter	12 - 30 Diameter
CYCLES OF OPERATION	
Choose up to nine regeneration cycles, in any order, v	vith a wide range of available values:
Cycle	Range of values
Backwash	
Rinse	1 - 120 minutes
Pause (service)	1 - 480 minutes
Brine (co-current)	1 - 180 minutes
Refill (softener)	0,05 - 90,00 Kg / .1 - 99 minutes
Refill (filter)	0,2 - 76,00 Liters

Options: Backwash Filter, Weather Cover







WS2EI WATER SPECIALIST CONTROL VALVE

- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- 2" Top mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body*
- · Economical stainless steel optional meter assembly
- Service flow rate of 435 lpm (26.1 m3/h) (15 gpm), backwash 303 lpm (18.2 m3/h) (80 gpm)
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)
- · Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficienc
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining or upflow brining, slo rinse, second backwash, fast rinse, refill and downflow servi
- Coin Cell Lithium battery back-up with an 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- · Post treatment water regenerant refil
- 24 Hour Clock
- Reliable and proven DC drive
- · Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V2EIDMA-05 (*)	WS2EI VALVE DN M I-A	Softener	18"	Downflow	Included	Not included	1		
V2EIDMB-05 (*)	WS2EI VALVE DN M I-B	Softener	21"	Downflow	Included	Not included	1		
V2EIDMC-05 (*)	WS2EI VALVE DN M I-C	Softener	24"	Downflow	Included	Not included	1		
V2EIDMD-05 (*)	WS2EI VALVE DN M I-D	Softener	30"	Downflow	Included	Not included	1		
V2EIDME-05 (*)	WS2EI VALVE DN M I-E	Softener	36"	Downflow	Included	Not included	1		
V2EIDMF-05 (*)	WS2EI VALVE DN M I-F	Softener	42"	Downflow	Included	Not included	1		
V2EIDMG-05 (*)	WS2EI VALVE DN M I-G	Softener	48"	Downflow	Included	Not included	1		
V2EIUMA-05 (*)	WS2EI VALVE UP M I-A	Softener	24"	Uplflow	Included	Not included	1		
V2EIUMB-05 (*)	WS2EI VALVE UP M I-B	Softener	30"	Uplflow	Included	Not included	1		
V2EIDTA-05 (*)	WS2EI VALVE DN T I-A	Softener	18"	Downflow	Not included	Not included	1		
V2EIDTB-05 (*)	WS2EI VALVE DN T I-B	Softener	21"	Downflow	Not included	Not included	1		
V2EIDTC-05 (*)	WS2EI VALVE DN T I-C	Softener	24"	Downflow	Not included	Not included	1		
V2EIDTD-05 (*)	WS2EI VALVE DN T I-D	Softener	30"	Downflow	Not included	Not included	1		
V2EIDTE-05 (*)	WS2EI VALVE DN T I-E	Softener	36"	Downflow	Not included	Not included	1		
V2EIDTF-05 (*)	WS2EI VALVE DN T I-F	Softener	42"	Downflow	Not included	Not included	1		
V2EIDTG-05 (*)	WS2EI VALVE DN T I-G	Softener	48"	Downflow	Not included	Not included	1		
V2EIBMZ-05 (*)	WS2EI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	1		
V2EIBTZ-05 (*)	WS2EI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	1		

(*) Not available in stock.

NOTE

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately. For 3/4" drain fitting (V3158-04), Flow rates 0.07 - 10.0 gpm: reference order numbers V3162-007 through V3162-100. For 1" drain fitting (V3008-05), Flow rates 9.0 - 25.0 gpm: reference order numbers V3190-090 through V3190-250.

For 1.5" x 1.5" drain fittings (V3080BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-007 through V3162-100, and V3190-090 through V3190-250. 50 mm Top Distributor is not included. Please order separately: reference order numbers V-D1199-04 or V-D1300.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 2" El Control Specifications

<u> </u>	<u> </u>
Inlet/Outlet	
Cycles	
Valve Material	
Regeneration	Downflow or Upflow
CONTROL VALVE ELOW DATES	·
CONTROL VALVE FLOW RATES	00.4 2.11.
Service @ 1 bar/15 psi drop	
Backwash @ 1.7 bar/25 psi drop	
Cv Service	
Cv Backwash	16,0
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
	,
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43° C
METER SPECIFICATIONS	
Accuracy	+ 5%
Flow Rate Range	
Volume Range	•
Volumo nango	
Totalizer	0.001 - 4.294.000 m ³
	-,
DIMENSIONS & WEIGHT	
Distributor Pilot	50 mm OD
Drain Line Connection	1.5" Female NPT
Brine Line Adapters Included	1" Male NPT elbow,
·	3/4" x 1" solvent weld elbow and
	1/2" OD Poly Tube Compression
Mounting Base	4" - 8 UN
Height From Top Of Tank	
Shipping Weight With Meter	
	3
ELECTRICAL SPECIFICATIONS	POWER SUPPLY
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	500 mA
TANK APPLICATIONS	
Water Softener	
Water Filter	
CYCLES OF OPERATION	
	<u>Softener</u> <u>Filter</u>
Cycle	Range of time in minutes
1. Backwash 1st (upflow)	
2. Regenerate Draw/Slow Rinse (downflow)	1-180
3. Backwash 2 nd (upflow)	Rinse 1-95
4. Fast Rinse (downflow)	
5.Regenerant Refill (in service with treated water)	
6. Service (downflow)	
•	

Options: Backwash Filter, Weather Cover







WS2EI QC

WATER SPECIALIST CONTROL VALVE

- Single valve, available also for twin alternating, twin parallel and multitank systems
- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- 2" top mount or side mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body*
- Economical stainless steel optional meter assembly
- Service flow rate of 473 lpm (28.4 m3/h) (125 gpm), backwash 322 lpm (19.3 m3/h) (85 gpm
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficienc
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining or upflow brining, slo rinse, second backwash, fast rinse, refill and downflow servi
- Coin Cell Lithium battery back-up with an 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refil
- 24 Hour Clock
- · Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V2EIDMA-18 (*)	WS2EI VALVE DN M I-A QC	Softener	18"	Downflow	Included	Not included	1		
V2EIDMB-18 (*)	WS2EI VALVE DN M I-B QC	Softener	21"	Downflow	Included	Not included	1		
V2EIDMC-18 (*)	WS2EI VALVE DN M I-C QC	Softener	24"	Downflow	Included	Not included	1		
V2EIDMD-18 (*)	WS2EI VALVE DN M I-D QC	Softener	30"	Downflow	Included	Not included	1		
V2EIDME-18 (*)	WS2EI VALVE DN M I-E QC	Softener	36"	Downflow	Included	Not included	1		
V2EIDMF-18 (*)	WS2EI VALVE DN M I-F QC	Softener	42"	Downflow	Included	Not included	1		
V2EIDMG-18 (*)	WS2EI VALVE DN M I-G QC	Softener	48"	Downflow	Included	Not included	1		
V2EIUMA-18 (*)	WS2EI VALVE UP M I-A QC	Softener	24"	Uplflow	Included	Not included	1		
V2EIUMB-18 (*)	WS2EI VALVE UP M I-B QC	Softener	30"	Uplflow	Included	Not included	1		
V2EIDTA-18 (*)	WS2EI VALVE DN T I-A QC	Softener	18"	Downflow	Not included	Not included	1		
V2EIDTB-18 (*)	WS2EI VALVE DN T I-B QC	Softener	21"	Downflow	Not included	Not included	1		
V2EIDTC-18 (*)	WS2EI VALVE DN T I-C QC	Softener	24"	Downflow	Not included	Not included	1		
V2EIDTD-18 (*)	WS2EI VALVE DN T I-D QC	Softener	30"	Downflow	Not included	Not included	1		
V2EIDTE-18 (*)	WS2EI VALVE DN T I-E QC	Softener	36"	Downflow	Not included	Not included	1		
V2EIDTF-18 (*)	WS2EI VALVE DN T I-F QC	Softener	42"	Downflow	Not included	Not included	1		
V2EIDTG-18 (*)	WS2EI VALVE DN T I-G QC	Softener	48"	Downflow	Not included	Not included	1		
V2EIBMZ-18 (*)	WS2EI VALVE BW M I-Z QC	Filter	N/A	Backwash	Included	Not included	1		
V2EIBTZ-18 (*)	WS2EI VALVE BW T I-Z QC	Filter	N/A	Backwash	Not included	Not included	1		

^(*) Not available in stock.

When using the WS2EI/QC Control Valve, one of the following Tank Base Assemblies must be ordered, to complete the Control Valve:

Ref.	Description	Q.ty/ Carton	Q.ty/ Pallet	
V3064	WS2H / WS2QC 4" BASE ASSEMBLY	1		
V3055	WS2H / WS2QC 6" FLANGE BASE ASSEMBLY	1		
V3260BSPT-02	WS2H / WS2QC 2" SIDE MOUNT ASSEMBLY BSPT	1		

NOTE:

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately. For 3/4" drain fitting (V3158-04), Flow rates 0.07 - 10.0 gpm: reference order numbers V3162-007 through V3162-100. For 1" drain fitting (V3008-05), Flow rates 9.0 - 25.0 gpm: reference order numbers V3190-090 through V3190-250. For 1.5" x 1.5" drain fittings (V3080BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-007 through V3190-090 through V3190-250.

63 mm Top Distributor is not included. Please order separately: reference order numbers V-D1199-05 or V-D1200-04.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 2" EI/QC Control Specifications

	ond of observed mone
Inlet/Outlet (1)	2" Female BSPT
Cycles	
Valve Material	•
Regeneration	
CONTROL VALVE FLOW RATES	·
Service @ 1 bar/15 psi drop	473 lpm (28.4 m ³ /h) (1.25 gpm)
Backwash @ 1.7 bar/25 psi drop	
Cv Service	, , , , , , , , , , , , , , , , , , , ,
Cv Backwash	•
OPERATING PRESSURES	1.4. 0.C.b.o.
Minimum/Maximum	1.4 - 8.6 Dar
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43° C
METER SPECIFICATIONS	-0/
Accuracy	
Flow Rate Range	
Volume Range	
Totalizer	0,001 - 4.294.000 m ³
DIMENSIONS & WEIGHT	
Distributor Pilot	63 mm OD
Drain Line Connection	
Brine Line Adapters Included	
Dille Lille Adapters illoidded	3/4" x 1" solvent weld elbow and
	½" OD Poly Tube Compression
Mounting Base	
Height From Top Of Tank with 4" - 8 UN QC Base	
Height From Top Of Tank with 6" Flange QC Base	
Shipping Weight With Meter	
Cimpping Weight With Motor imminimum	
ELECTRICAL SPECIFICATIONS	
	POWER SUPPLY
Supply Voltage	200VAC to 240VAC
Supply Frequency	
Output Voltage	15VDC
Output Current	500 mA
TANK APPLICATIONS	
Water Softener	10" 40" diameter
Water Filter (2)	
water riiter (2)	12 - 30 diameter
CYCLES OF OPERATION	
	Softener Filter
Cycle	Range of time in minutes
1. Backwash 1st (upflow)	
2. Regenerate Draw/Slow Rinse (downflow)	1-180
3. Backwash 2 nd (upflow)	
4. Fast Rinse (downflow)	
5.Regenerant Refill (in service with treated water)	0,1-99,0
6. Service (downflow)	

Options: Backwash Filter, Weather Cover



^{1.} See Distributor Pilot

^{2.} Filter tank size calculated @ 407 lpm per m² of bed area/10 gpm of backwash per square foot of bed area





WS2CI

WATER SPECIALIST CONTROL VALVE

- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- 2" Top mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body*
- Economical stainless steel optional meter assembly
- Service flow rate of 435 lpm (26.1 m3/h) (15 gpm), backwash 303 lpm (18.2 m3/h) (80 gpm)
 Solid state microprocessor with easy access front panel settings Front panel display for time of day, days until next regeneration, volume remaining and current flow rate
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- Days override feature; 1-28 days available
- Coin Cell Lithium battery back-up with an 24 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Pre or Post treated water regenerant refil
- 24 Hour Clock
- Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V2CIDMD-05	WS2CI VALVE DN M I-D	Softener	30"	Downflow	Included	Not included	1		
V2CIDME-05 (*)	WS2CI VALVE DN M I-E	Softener	36"	Downflow	Included	Not included	1		
V2CIDMF-05 (*)	WS2CI VALVE DN M I-F	Softener	42"	Downflow	Included	Not included	1		
V2CIDMG-05 (*)	WS2CI VALVE DN M I-G	Softener	48"	Downflow	Included	Not included	1		
V2CIUMA-05 (*)	WS2CI VALVE UP M I-A	Softener	24"	Uplflow	Included	Not included	1		
V2CIUMB-05 (*)	WS2CI VALVE UP M I-B	Softener	30"	Uplflow	Included	Not included	1		
V2CIDTA-05 (*)	WS2CI VALVE DN T I-A	Softener	18"	Downflow	Not included	Not included	1		
V2CIDTB-05 (*)	WS2CI VALVE DN T I-B	Softener	21"	Downflow	Not included	Not included	1		
V2CIDTC-05 (*)	WS2CI VALVE DN T I-C	Softener	24"	Downflow	Not included	Not included	1		
V2CIDTD-05	WS2CI VALVE DN T I-D	Softener	30"	Downflow	Not included	Not included	1		
V2CIDTE-05 (*)	WS2CI VALVE DN T I-E	Softener	36"	Downflow	Not included	Not included	1		
V2CIDTF-05 (*)	WS2CI VALVE DN T I-F	Softener	42"	Downflow	Not included	Not included	1		
V2CIDTG-05 (*)	WS2CI VALVE DN T I-G	Softener	48"	Downflow	Not included	Not included	1		
V2CIBMZ-05 (*)	WS2CI VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	1		
V2CIBTZ-05 (*)	WS2CI VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	1		

(*) Not available in stock.

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately. For 3/4" drain fitting (V3158-04), Flow rates 0.07 - 10.0 gpm: reference order numbers V3162-007 through V3162-100. For 1" drain fitting (V3008-05), Flow rates 9.0 - 25.0 gpm: reference order numbers V3190-090 through V3190-250. For 1.5" x 1.5" drain fittings (V3080BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-007 through V3190-090 through V3190-250. For 1.5" x 1.5" drain fittings (V3080BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-007 through V3162-100, and V3190-090 through V3190-250. For 1.5" x 1.5" drain fittings (V3080BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-007 through V3190-090 through V3190-250.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.



Water Specialist 2" CI Control Specifications

Inlet/Outlet	2" Female BSPT
Cycles	
Valve Material	Lead free brass
Regeneration	Downflow or Upflow
CONTROL VALVE FLOW RATES	
Service @ 1 bar/15 psi drop	26.1 m³/h
Backwash @ 1.7 bar/25 psi drop	
Cv Service	
Cv Backwash	,
OV Dackwasii	10,0
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43° C
METER SPECIFICATIONS	
Accuracy	
Flow Rate Range	•
Volume Range	
Totalizer	1 - 99.999 m³
DIMENSIONS & WEIGHT Distributor Pilot	50 mm OD
Drain Line Connection	
Brine Line Adapters Included	•
Brille Eine Adapters included	3/4" x 1" solvent weld elbow and
	½" OD Poly Tube Compression
Mounting Base	
Height From Top Of Tank	
Shipping Weight With Meter	
5	3
ELECTRICAL SPECIFICATIONS	POWER SUPPLY
Supply Voltage	200VAC to 240VAC
Supply Frequency	
Output Voltage	
Output Current	
TANK APPLICATIONS	
Water Softener	12" - 48" diameter
	12" - 36" diameter
CYCLES OF OPERATION Choose up to pine regeneration cycles in a	ny order with a wide range of available values:
	ny order, with a wide range of available values: Range of values
Cycle Backwash	•
Rinse	
Pause (service)	
Brine (co-current)	
Refill (softener)	
neiiii (iiitei)	

Options: Backwash Filter, Weather Cover







WS2CI QC WATER SPECIALIST CONTROL VALVE

- · Single valve, available also for twin alternating, twin parallel and multitank systems
- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- 2" top mount or side mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body*
- · Economical stainless steel optional meter assembly
- Service flow rate of 473 lpm (28.4 m3/h) (125 gpm), backwash 322 lpm (19.3 m3/h) (85 gpm
- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, days until next regeneration, volume remaining and current flow rat
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Program in ppm, French degrees, German degrees, or cubic meters
- Fully programmable regeneration cycle sequence (maximum 9)
- Programmable regeneration cycle times
- Days override feature; 1-28 days available
- Coin Cell Lithium battery back-up with an 24 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Pre or Post treated water regenerant refil
- 24 Hour Clock
- Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V2CIDMA-18 (*)	WS2CI VALVE DN M I-A QC	Softener	18"	Downflow	Included	Not included	1		
V2CIDMB-18 (*)	WS2CI VALVE DN M I-B QC	Softener	21"	Downflow	Included	Not included	1		
V2CIDMC-18 (*)	WS2CI VALVE DN M I-C QC	Softener	24"	Downflow	Included	Not included	1		
V2CIDMD-18 (*)	WS2CI VALVE DN M I-D QC	Softener	30"	Downflow	Included	Not included	1		
V2CIDME-18 (*)	WS2CI VALVE DN M I-E QC	Softener	36"	Downflow	Included	Not included	1		
V2CIDMF-18 (*)	WS2CI VALVE DN M I-F QC	Softener	42"	Downflow	Included	Not included	1		
V2CIDMG-18 (*)	WS2CI VALVE DN M I-G QC	Softener	48"	Downflow	Included	Not included	1		
V2CIUMA-18 (*)	WS2CI VALVE UP M I-A QC	Softener	24"	Uplflow	Included	Not included	1		
V2CIUMB-18 (*)	WS2CI VALVE UP M I-B QC	Softener	30"	Uplflow	Included	Not included	1		
V2CIDTA-18 (*)	WS2CI VALVE DN T I-A QC	Softener	18"	Downflow	Not included	Not included	1		
V2CIDTB-18 (*)	WS2CI VALVE DN T I-B QC	Softener	21"	Downflow	Not included	Not included	1		
V2CIDTC-18 (*)	WS2CI VALVE DN T I-C QC	Softener	24"	Downflow	Not included	Not included	1		
V2CIDTD-18 (*)	WS2CI VALVE DN T I-D QC	Softener	30"	Downflow	Not included	Not included	1		
V2CIDTE-18 (*)	WS2CI VALVE DN T I-E QC	Softener	36"	Downflow	Not included	Not included	1		
V2CIDTF-18 (*)	WS2CI VALVE DN T I-F QC	Softener	42"	Downflow	Not included	Not included	1		
V2CIDTG-18 (*)	WS2CI VALVE DN T I-G QC	Softener	48"	Downflow	Not included	Not included	1		
V2CIBMZ-18 (*)	WS2CI VALVE BW M I-Z QC	Filter	N/A	Backwash	Included	Not included	1		
V2CIBTZ-18 (*)	WS2CI VALVE BW T I-Z QC	Filter	N/A	Backwash	Not included	Not included	1		

^(*) Not available in stock.

When using the WS2EI/QC Control Valve, one of the following Tank Base Assemblies must be ordered, to complete the Control Valve:

Ref.	Description	Q.ty/ Carton	Q.ty/ Pallet	
V3064	WS2H / WS2QC 4" BASE ASSEMBLY	1		
V3055	WS2H / WS2QC 6" FLANGE BASE ASSEMBLY	1		
V3260BSPT-02	WS2H / WS2QC 2" SIDE MOUNT ASSEMBLY BSPT	1		

NOTE:

Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3186-XX).

Drain Line Flow Controls (DLFC) washer is not included. Please order separately. For 3/4" drain fitting (V3158-04), Flow rates 0.07 - 10.0 gpm: reference order numbers V3162-007 through V3162-100. For 1" drain fitting (V3008-05), Flow rates 9.0 - 25.0 gpm: reference order numbers V3190-090 through V3190-250. For 1.5" x 1.5" drain fittings (V3080BSPT), Flow rates 9 to 85 gpm: reference order numbers V3162-100, and V3190-090 through V3190-250.

63 mm Top Distributor is not included. Please order separately: reference order numbers V-D1199-05 or V-D1200-04.

Power Rechargeble Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with the normal transformer for applications with a unstable power grid.

Sun Battery Pack Option: Control Valves listed can be used with a rechargeble battery pack and custom PC board. This battery pack can be recharged with a solar panel for applications with no electrical power.





Water Specialist 2" CI/QC Control Specifications

Inlet/Outlet (1)	
Cycles	-
Valve Material	
Regeneration	Downflow or Upflow
CONTROL VALVE FLOW RATES	
Service @ 1 bar/15 psi drop	473 lpm (28.4 m³/h)
Backwash @ 1.7 bar/25 psi drop	
Cv Service	
Cv Backwash	
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43° C
METER SPECIFICATIONS	+ 50/
AccuracyFlow Rate Range	
· · · · · · · · · · · · · · · · · · ·	
Volume Range Totalizer	
101411201	
DIMENSIONS & WEIGHT	
Distributor Pilot	
Drain Line Connection	
Brine Line Adapters Included	
	34" x 1" solvent weld elbow and
	1/2" OD Poly Tube Compression
Mounting Base	
Height From Top Of Tank with 4" - 8 UN QC Base	
Height From Top Of Tank with 6" Flange QC Base	287 mm
Shipping Weight With Meter	14 kg
	POWER SUPPLY
ELECTRICAL SPECIFICATIONS	POWER SUPPLY
ELECTRICAL SPECIFICATIONS Supply Voltage	POWER SUPPLY . 200VAC to 240VAC
ELECTRICAL SPECIFICATIONS Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA
Supply Voltage	POWER SUPPLY . 200VAC to 240VAC . 50/60 Hz . 15VDC . 500 mA

Options: Backwash Filter, Weather Cover

^{2.} Filter tank size calculated @ 407 lpm per m² of bed area /10 gpm of backwash per square foot of bed



^{1.} See Distributor Pilot





WS2H WATER SPECIALIST CONTROL VALVE

- 2" top mount or side mount control valve suited for industrial applications
- Epoxy coated lead free brass valve body
- · Built-in Internal Flow Meter standard with all valves
- Service flow rate 125 gpm (473 lpm) (28.4 m3/h), Backwash flow rate 125 gpm (473 lpm) (28.4 m3/h),
- Solid state microprocessor with easy access front removable POD
- Front panel display for Time of Day, Current Flow Rate, Totalizer and Volume/Days until Regeneration
- Four methods to initiate the down flow regeneration; meter delayed,meter immediate, time clock delayed, or pressure differential
- Fully programmable regeneration cycle sequences (maximum 9)
- Fully programmable regeneration cycle times
- Pre or Post treated water regenerant refil
- Days override feature; 1-28 days available
- Level VI 18-volt output DC power supply provides safe and easy installation
- · Reliable and proven DC drive
- Certified to NSF/ANSI 44, 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V2HDMA-05 (*)	WS2H VALVE DN M I-A	Softener	18"	Downflow	Included	Not included	1		
V2HDMB-05 (*)	WS2H VALVE DN M I-B	Softener	21"	Downflow	Included	Not included	1		
V2HDMC-05 (*)	WS2H VALVE DN M I-C	Softener	24"	Downflow	Included	Not included	1		
V2HDMD-05	WS2H VALVE DN M I-D	Softener	30"	Downflow	Included	Not included	1		
V2HDME-05 (*)	WS2H VALVE DN M I-E	Softener	36"	Downflow	Included	Not included	1		
V2HDMF-05 (*)	WS2H VALVE DN M I-F	Softener	42"	Downflow	Included	Not included	1		
V2HDMG-05 (*)	WS2H VALVE DN M I-G	Softener	48"	Downflow	Included	Not included	1		
V2HDMH-05 (*)	WS2H VALVE DN M I-H	Softener	63"	Downflow	Included	Not included	1		
V2HBMZ-05	WS2H VALVE BW M I-Z	Filter	N/A	Backwash	Included	Not included	1		

^(*) Not available in stock.

When using the WS2H Control Valve, one of the following Tank Base Assemblies must be ordered, to complete the Control Valve:

Ref.	Description	Q.ty/ Carton	Q.ty/ Pallet	
V3064	WS2H / WS2QC 4" BASE ASSEMBLY	1		
V3055	WS2H / WS2QC 6" FLANGE BASE ASSEMBLY	1		
V3260BSPT-02	WS2H / WS2QC 2" SIDE MOUNT ASSEMBLY BSPT	1		

NOTE

All WS2H Control Valves listed above come standard with a V3162-022, 2.2 gpm Brine Line Flow Control (BLFC). Other sizes are available. Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3461XX-01). Drain Line Flow Controls (DLFC) washer is not included. Please order separately. The V3051BSPT DLFC Assembly BSPT is capable of up to 4 – V3190-XXX Flow Controls and 5 – V3162-XXX Flow Controls for a total flow rate of 150 gpm. For 3/4" DLFC buttons, reference order numbers V3162-007 through V3162-100. For 1" DLFC buttons, reference order numbers V3190-090 through V3190-250.

63 mm Top Distributor is not included. Please order separately: reference order numbers V-D1199-05 or V-D1200-04.



Water Specialist 2" H Control Specifications

Inlet/Outlet	
	or 2.5" Groove Lock
Cycles	up to 9
Valve Material	Lead free brass
Regeneration	Downflow
CONTROL VALVE FLOW RATES	
Service @ 15 psi/1 bar drop (includes meter)	28 4 m³/h
Backwash @ 25 psi/1.7 bar drop	
Cv Service	
Cv Backwash	,
	- 1 -
OPERATING PRESSURES	1.4. 0.C.b.c.r
Minimum/Maximum	1,4 - 8,6 Dar
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43° C
METER SPECIFICATIONS	
Accuracy	+ 5%
Flow Rate Range	
Volume Range	•
ŭ	,
Totalizer	(3.786 - 3.785.407,9 liters x1000)
DIMENSIONS & WEIGHT Distributor Pilot	63 mm OD
Brine Line Adapters Included	
	3/4" x 1" solvent weld elbow
Optional Adapters	3/4" x 1" solvent weld elbow
Optional Adapters Mounting Base	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base. Height From Top Of Tank with 6" Flange QC Base. Shipping Weight With Internal Meter	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base. Height From Top Of Tank with 6" Flange QC Base. Shipping Weight With Internal Meter ELECTRICAL SPECIFICATIONS Supply Voltage Supply Frequency Output Voltage Output Current	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base. Height From Top Of Tank with 6" Flange QC Base. Shipping Weight With Internal Meter	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base. Height From Top Of Tank with 6" Flange QC Base. Shipping Weight With Internal Meter	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base. Height From Top Of Tank with 6" Flange QC Base. Shipping Weight With Internal Meter ELECTRICAL SPECIFICATIONS Supply Voltage Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter CYCLES OF OPERATION	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base. Height From Top Of Tank with 6" Flange QC Base. Shipping Weight With Internal Meter. ELECTRICAL SPECIFICATIONS Supply Voltage Supply Frequency Output Voltage Output Current TANK APPLICATIONS Water Softener Water Filter CYCLES OF OPERATION Choose up to nine regeneration cycles, in any order	34" x 1" solvent weld elbow
Optional Adapters	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base Height From Top Of Tank with 6" Flange QC Base Shipping Weight With Internal Meter	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base. Height From Top Of Tank with 6" Flange QC Base. Shipping Weight With Internal Meter	34" x 1" solvent weld elbow
Optional Adapters Mounting Base Height From Top Of Tank with 4" - 8 UN QC Base Height From Top Of Tank with 6" Flange QC Base Shipping Weight With Internal Meter	34" x 1" solvent weld elbow

Options: Backwash Filter







WS3

WATER SPECIALIST CONTROL VALVE

- Transformer, Drain Line Flow Control (DLFC) washer, Top Distributor and accessories not included, to order separetely
- 3" top mount or side mount control valve suited for industrial applications
- Epoxy coated lead free brass valve body
- · Economical stainless steel optional meter assembly
- Service flow rate 250 gpm (946 lpm) (56.8 m3/h), Backwash flow rate 220 gpm (833 lpm) (50.0 m3/
- Solid state microprocessor with easy access front removable POD
- Front panel display for Time of Day, Current Flow Rate, Totalizer and Volume/Days until Regeneration
- · Four methods to initiate the down flow regeneration; meter delayed, meter immediate, time clock delayed, aor pressure differential
- Fully programmable regeneration cycle sequences (maximum 9)
- Fully programmable regeneration cycle times
- Pre or Post treated water regenerant refil
 Days override feature; 1-28 days available
- Capacitor back-up with up to 24 hour carry over
 Level VI 18-volt output DC power supply provides safe and easy installation
- Reliable and proven DC drive
- Certified to NSF/ANSI 61 and 372

Ref.	Description	Softener/ Filter	Injector Tank Size	Downflow/ Uplflow	Meter	Mixing valve	Q.ty/ Carton	Q.ty/ Pallet	
V3DTA-05 (*)	WS3 VALVE DN T I-A	Softener	18"	Downflow	Not included	Not included	1		
V3DTB-05 (*)	WS3 VALVE DN T I-B	Softener	21"	Downflow	Not included	Not included	1		
V3DTC-05 (*)	WS3 VALVE DN T I-C	Softener	24"	Downflow	Not included	Not included	1		
V3DTD-05 (*)	WS3 VALVE DN T I-D	Softener	30"	Downflow	Not included	Not included	1		
V3DTE-05 (*)	WS3 VALVE DN T I-E	Softener	36"	Downflow	Not included	Not included	1		
V3DTF-05 (*)	WS3 VALVE DN T I-F	Softener	42"	Downflow	Not included	Not included	1		
V3DTG-05 (*)	WS3 VALVE DN T I-G	Softener	48"	Downflow	Not included	Not included	1		
V3DTH-05 (*)	WS3 VALVE DN T I-H	Softener	63"	Downflow	Not included	Not included	1		
V3BTZ-05 (*)	WS3 VALVE BW T I-Z	Filter	N/A	Backwash	Not included	Not included	1		

^(*) Not available in stock.

When using the WS3 Control Valve, one of the following Tank Base Assemblies must be ordered, to complete the Control Valve:

Ref.	Description	Q.ty/ Carton	Q.ty/ Pallet	
V3090	WS3 6" FLANGE BASE ASSEMBLY	1		
V3674BSPT-02	WS3 SIDE MOUNT ASSEMBLY BSPT	1		

NOTE:

All WS3 Control Valves listed above come standard with a V3162-022, 2.2 gpm Brine Line Flow Control (BLFC). Other sizes are available. Controls listed are priced without a power cord or transformer. For AC Adapter (Transformer) selection see "ACCESSORIES" section (V3461XX-01). Drain Line Flow Controls (DLFC) washer is not included. Please order separately. For the 3" drain fittings (V3764BSPT), Flow rates 9 to 225 gpm: uses up to 9 of the 1" DLFC buttons, reference order numbers V3190-090 through V3190-250. 90 mm Top Distributor is not included. Please order separately.



Water Specialist 3" Control Specifications

mater operanet e cont	or opositionations
Inlet/Outlet	3" Female BSPT
Cycles	up to 9
Valve Material	
Regeneration	Downflow
-	
CONTROL VALVE FLOW RATES	70.0 2.0
Service @ 15 psi/1 bar drop	
Backwash @ 25 psi/1.7 bar drop	
Cv Service	•
Cv Backwash	44,0
OPERATING PRESSURES	
Minimum/Maximum	1,4 - 8,6 bar
OPERATING TEMPERATURES	
Minimum/Maximum	49 429 C
Wilhimum/waximum	4 43- 0
METER SPECIFICATIONS	
Accuracy	± 5%
Flow Rate Range	13,3 - 1325 lpm
Volume Range	•
DIMENSIONS & WEIGHT	00 0D
Distributor Pilot	
Drain Line Connection	
Brine Line Adapters Included	
	3/4" x 1" solvent weld elbow
Mounting Base	6" Flange or Side Mount
Height From Top Of Tank with 6" Flange QC Base	318 mm
Shipping Weight Without Optional Meter	25,9 kg
ELECTRICAL ORFOLEIGATIONS	
ELECTRICAL SPECIFICATIONS	DOWED CURRLY
	POWER SUPPLY
Supply Voltage	
Supply Frequency	
Output Voltage	
Output Current	750 mA
TANK APPLICATIONS	
Water Softener	19" 63" Diameter
Water Filter	18" - 63" Diameter
CYCLES OF OPERATION	
Choose up to nine regeneration cycles, in any order, wit	-
Cycle	Range of values
Backwash	
Brine (draw)	1 - 180 minutes
Slow Rinse	1 - 95 minutes
Fast Rinse	1 - 95 minutes
Refill	0,1 - 99 minutes
Hold (service)	
•	

Options: Backwash Filter









ACCESSORIES

Ref.	Description	Ref.	Description	
V3006	WS1 Bypass Assembly	V3162-065	WS1 DLFC 065 (6.5 gpm) for 3/4"	
V3007	WS1 Fitting 1" PVC Male NPT Elbow Assembly	V3162-075	WS1 DLFC 075 (7.5 gpm) for 3/4"	
V3007-01	WS1 Fitting 3/4" x 1" PVC Solvent Elbow Assembly	V3162-090	WS1 DLFC 090 (9.0 gpm) for 3/4"	
V3007-02LF	WS1 Fitting 1" Brass Sweat Assembly LF	V3162-100	WS1 DLFC 100 (10.0 gpm) for 3/4"	
V3007-03LF	WS1 Fitting 3/4" Brass Sweat Assembly LF	V3175WC-A	WS1 Weather Cover Almond	
V3007-06	WS1 Fitting 1" Plastic Male BSPT Assembly	V3175WC-W	WS1 Weather Cover White	
V3007-07	WS1 Fitting 1-1/4" & 1-1/2" PVC Solvent Assembly	V3186	WS1 AC Adapter (Transformer) 120V-12V	
V3007-08	WS1 Fitting 1-1/4" Plastic Male BSPT Assembly	V3186-01	WS1 AC Adapter (Transformer) Cord Only 15 Feet	
V3007-09LF	WS1 Fitting 1-1/4" & 1-1/2" Brass Sweat Assy LF	V3186-06	WS1 AC Power Supply (Transformer) US 15 Volt DC	
V3007-14	WS1 Fitting 3/4" Plastic Male BSPT Assembly	V3186-36	WS1 AC Adapter Cord Only 36 Feet	
V3007-15	WS1 Fitting 3/4" John Guest QC Elbow Assembly	V3186-OD	WS1 AC Adapter (Transformer) 110V-12V (Outdoor)	
V3007-16	WS1 Fitting 1" PVC Male BSPT 90 Assembly	V3186EU-06	WS1 AC Power Supply (Transformer) EU 15 Volt DC	
V3007-17	WS1 Fitting 1" John Guest QC Assembly	V3186EU-OD	WS1 AC Adapter (Transformer) 240V-12V European (Outdoor)	
V3007-19	WS1 Fitting 3/4" Straight John Guest QC	V3186UK	WS1 AC Adapter (Transformer) 220-240V-12V UK	
V3008-02	WS1 Drain Fitting 1" Straight w/Silencer	V3186UK-05	WS1 AC Power Supply (Transformer) UK 15 Volt DC	
V3008-04	WS1 Drain Fitting 1" Straight w/o Silencer	V3190-090	WS1 DLFC 090 (9.0 gpm) for 1"	
V3008-05	WS2 Drain Fitting 1" Male NPT w/o Silencer	V3190-100	WS1 DLFC 100 (10.0 gpm) for 1"	
V3009	WS1 Auxiliary Microswitch Assembly	V3190-110	WS1 DLFC 110 (11.0 gpm) for 1"	
V3014	WS1 Series Microswitch Assembly	V3190-130	WS1 DLFC 130 (13.0 gpm) for 1"	
V3017	WS2 Service Or Fill Switch Assembly	V3190-150	WS1 DLFC 150 (15.0) gpm) for 1"	
V3022	WS1 Stack Puller Assembly	V3190-170	WS1 DLFC 170 (17.0 gpm) for 1"	
V3030-01	System Controller Box	V3190-200	WS1 DLFC 200 (20.0 gpm) for 1"	
V3040BSPT	WS15 Meter Assembly Male x Female BSPT	V3190-250	WS1 DLFC 250 (25.0 gpm) for 1"	
V3040BSPT-15	WS15 Meter Assy Male x Female BSPT 15' Meter Cable	V3191-01	WS1 Bypass Vertical Adapter Assembly	
V3051BSPT	WS2H/3 DLFC Assy 2 M-BSPT x 2 F-BSPT (No DLFC Buttons)	V3192	WS1 Nut 3/4" Drain Elbow-Use w/PKP10TS8-BULK (5/8x1/2)	
V3053	WS2 2-1/2" Groove Lock Clamp Assembly	V3193-02	WS1 Service Spanner Wrench	
V3055	WS2H/2 QC 6" Flange Base Assembly	V3260BSPT-02	WS2H/2 QC 2" Side Mount Base Assembly BSPT	
V3064	WS2H/2 QC 4" Base Assembly	V3467	WS1 Bypass Inline Adapter Fittings	
V3069FF-01	WS1/125 Motorized Alternating Valve Female x Female 3-Wire	V3474	WS Alt Connection Cord 8' Black for Single Meter (3 Wire Int.)	
V3069MM-01	WS1/125 Motorized Alternating Valve Male x Male 3-Wire	V3475-12	WS2H/3 System Connection Cord 12' Red	
V3070FF	WS1/125 No Hard Water Bypass Valve Female x Female	V3475-24	WS2H/3 System Connection Cord 24' Blue	
V3070FM	WS1/125 No Hard Water Bypass Valve Female x Male	V3475-36	WS2H/3 System Connection Cord 36' Yellow	
V3071BSPT	MAV 15 BSPT Revision 2	V3478	WS1 Inline Bypass Assembly 1 Brass Sweat	
V3076BSPT	WS2 Motorized Alternating Valve BSPT Revision 2 (Piston Style)	V3478-01	WS1 Inline Bypass Assembly 3/4 Brass Sweat	
V3079BSPT	WS15 DLFC Assy 1.25 M-NPT x 1.5 F-BSPT (No DLFC Buttons)	V3783WC-A	WS2 Weather Cover Almond	
V3080BSPT	WS2 DLFC Assy 1.5 M-NPT x 1.5 F-BSPT (No DLFC Buttons)	V3783WC-W	WS2 Weather Cover White	
V3094BSPT	WS2 Meter Assy Male x Female BSPT	V3974WC-A	WS15 Weather Cover Almond Generation 2	
V3094BSPT-15	WS2 Meter Assy Male x Female BSPT 15' Meter Cable	V3974WC-W	WS15 Weather Cover White Generation 2	
V3094BSFT=13	15" No Hard Water Bypass Male x Female BSPT	V3962		
V3097B3FT V3098BSPT	2" No Hard Water Bypass Male x Female BSPT	V4052-01	WS1 Drain Elbow & Retainer Assy w/o Silencer TT Twin Tank Interconnnect Kit for 12"-21" Tanks	
V3158-04	WS2 Drain Elbow 3/4" Male NPT No Silencer	V4052-01	WS1 Drain Elbow & Retainer Assy w/Silencer	
V3162-007			,	
V3162-007 V3162-010	WS1 DLFC 007 (0.7 gpm) for 3/4"	V4099 V4276-15	WS1 External In-Line Mixing Valve	
	WS1 DLFC 010 (1.0 gpm) for 3/4" WS1 DLFC 013 (1.3 gpm) for 3/4"		15' Power Cord	
V3162-013	WS1 DLFC 013 (1.3 gpm) for 3/4"	V4276-36	36' Power Cord	
V3162-017	WS1 DLFC 017 (1.7 gpm) for 3/4"	V4325	Software Configurator Program Top Stock Distributor F0 mm	
V3162-022	WS1 DLFC 022 (2.2 gpm) for 3/4"	V-D1199-04	Top Stack Distributor 50 mm	
V3162-027	WS1 DLFC 027 (2.7 gpm) for 3/4"	V-D1199-05	Top Stack Distributor 63 mm	
V3162-032	WS1 DLFC 032 (3.2 gpm) for 3/4"	V-D1200-04	Top Stack Distributor 63 mm for Flange Tanks	
1/0400 040	WS1 DLFC 042 (4.2 gpm) for 3/4"	V-D1203-03	Upper Screen 32 mm - Twist Lock	
V3162-042 V3162-053	WS1 DLFC 053 (5.3 gpm) for 3/4"	V-D1300	Top Buffle Distributor 50 mm	

WS2H, WS3

ACCESSORIES

Ref.	Description	Ref.	Description	
V3051BSPT	WS2H/3 DLFC Assy 2 M-BSPT x 2 F-BSPT (No DLFC Buttons)	V3162-100	WS1 DLFC 100 (10.0 gpm) for 3/4"	
V3053	WS2 2-1/2" Groove Lock Clamp Assembly	V3190-090	WS1 DLFC 090 (9.0 gpm) for 1"	
V3055	WS2H/2 QC 6" Flange Base Assembly	V3190-100	WS1 DLFC 100 (10.0 gpm) for 1"	
V3064	WS2H/2 QC 4" Base Assembly	V3190-110	WS1 DLFC 110 (11.0 gpm) for 1"	
V3076BSPT	WS2 Motorized Alternating Valve BSPT Revision 2 (Piston Style)	V3190-130	WS1 DLFC 130 (13.0 gpm) for 1"	
V3079BSPT	WS15 DLFC Assy 1.25 M-NPT x 1.5 F-BSPT (No DLFC Buttons)	V3190-150	WS1 DLFC 150 (15.0) gpm) for 1"	
V3080BSPT	WS2 DLFC Assy 1.5 M-NPT x 1.5 F-BSPT (No DLFC Buttons)	V3190-170	WS1 DLFC 170 (17.0 gpm) for 1"	
V3083BSPT	WS3 Motorized Alternating Valve BSPT	V3190-200	WS1 DLFC 200 (20.0 gpm) for 1"	
V3090	WS3 6" Flange Base Assembly	V3190-250	WS1 DLFC 250 (25.0 gpm) for 1"	
V3095BSPT	WS3 3" Meter Assembly BSPT Male x Female	V3260BSPT-02	WS2H/2 QC 2" Side Mount Base Assembly BSPT	
V3095BSPT-15	WS3 3" Meter Assembly BSPT Male x Female 15' Meter Cable	V3243-01BOARD	WS2H/3 PC Board System with Relay	
V3098BSPT	2" No Hard Water Bypass Male x Female BSPT	V3461-01	WS2H/3 AC 20V Adapter	
V3099BSPT	WS3 No Hard Water Bypass Male x Female BSPT	V3461EU-01	WS2H/3 AC 20V Adapter EU	
V3162-007	WS1 DLFC 007 (0.7 gpm) for 3/4"	V3461UK-01	WS2H/3 AC 20V Adapter UK	
V3162-010	WS1 DLFC 010 (1.0 gpm) for 3/4"	V3474	WS Alt Connection Cord 8' Black for Single Meter (3 Wire Int.)	
V3162-013	WS1 DLFC 013 (1.3 gpm) for 3/4"	V3475-12	WS2H/3 System Connection Cord 12' Red	
V3162-017	WS1 DLFC 017 (1.7 gpm) for 3/4"	V3475-24	WS2H/3 System Connection Cord 24' Blue	
V3162-022	WS1 DLFC 022 (2.2 gpm) for 3/4"	V3475-36	WS2H/3 System Connection Cord 36' Yellow	
V3162-027	WS1 DLFC 027 (2.7 gpm) for 3/4"	V3674BSPT-02	WS3 Side Mount Base Assembly BSPT	
V3162-032	WS1 DLFC 032 (3.2 gpm) for 3/4"	V3764BSPT	WS3 DLFC Assy 3 M-BSPT x 3 F-BSPT (No DLFC Buttons)	
V3162-042	WS1 DLFC 042 (4.2 gpm) for 3/4"	V4039	WS3 Meter Assembly with 4' Cord	
V3162-053	WS1 DLFC 053 (5.3 gpm) for 3/4"	V4051WC	WS2H/3 Weather Cover	
V3162-065	WS1 DLFC 065 (6.5 gpm) for 3/4"	V-D1199-05	Top Stack Distributor 63 mm	
V3162-075	WS1 DLFC 075 (7.5 gpm) for 3/4"	V-D1200-04	Top Stack Distributor 63 mm for Flange Tanks	
V3162-090	WS1 DLFC 090 (9.0 gpm) for 3/4"			

INJECTORS FOR VARIOUS TANK SIZES

(CAN BE ORDERED SEPARATELY)

WS1 AND WS1.25

ORDER NUMBER	DESCRIPTION	INJECTOR	TYPICAL TANK DIAMETER		
		COLOR	DOWN-FLOW BRINE	UP-FLOW BRINE	
V3010-1A	WS1 Injector Assembly A Black	Black	6"	8"	
V3010-1B	WS1 Injector Assembly B Brown	Brown	7"	9"	
V3010-1C	WS1 Injector Assembly C Violet	Violet	8"	10"	
V3010-1D	WS1 Injector Assembly D Red	Red	9"	12"	
V3010-1E	WS1 Injector Assembly E White	White	10"	13"	
V3010-1F	WS1 Injector Assembly F Blue	Blue	12"	14"	
V3010-1G	WS1 Injector Assembly G Yellow	Yellow	13"	16"	
V3010-1H	WS1 Injector Assembly H Green	Green	14"	18"	
V3010-1I	WS1 Injector Assembly I Orange	Orange	16"	21"	
V3010-1J	WS1 Injector Assembly J Light Blue	Light Blue	18"	n/a	
V3010-1K	WS1 Injector Assembly K Light Green	Light Green	21"	n/a	
V3010-1Z	WS1 Injector Assembly Z Plug				

INJECTORS FOR VARIOUS TANK SIZES

(CAN BE ORDERED SEPARATELY)

WS1.5/2L

1					
REF.	DESCRIPTION	INJECTOR COLOR	TYPICAL TANK DOWN-FLOW BRINE	DIAMETER UP-FLOW BRINE	
V3010-15B	WS15/2L Injector Assembly B Violet	Violet	12"	14"	
V3010-15C	WS15/2L Injector Assembly C Red	Red	13"	16"	
V3010-15D	WS15/2L Injector Assembly D White	White	14"	18"	
V3010-15E	WS15/2L Injector Assembly E Blue	Blue	16"	21"	
V3010-15F	WS15/2L Injector Assembly F Yellow	Yellow	18"	24"	
V3010-15G	WS15/2L Injector Assembly G Green	Green	21"	30"	
V3010-15H	WS15/2L Injector Assembly H Orange	Orange	24"	n/a	
V3010-15I	WS15/2L Injector Assembly I	Gray PVC	30"	n/a	
V3010-15Z	WS15/2L Injector Assembly Z Plug		n/a	·	

WS2/2H/3

DEE		INJECTOR	TYPICAL TANK DIAMETER		
REF.	DESCRIPTION	COLOR	DOWN-FLOW BRINE	UP-FLOW BRINE	
V3010-2A	WS2/2H/3 Injector Assembly A	Stamped A	18"	24"	
V3010-2B	WS2/2H/3 Injector Assembly B	Stamped B	21"	30"	
V3010-2C	WS2/2H/3 Injector Assembly C	Stamped C	24"	36"	
V3010-2D	WS2/2H/3 Injector Assembly D	Stamped D	30"	42"	
V3010-2E	WS2/2H/3 Injector Assembly E	Stamped E	36"	48"	
V3010-2F	WS2/2H/3 Injector Assembly F	Stamped F	42"	n/a	
V3010-2G	WS2/2H/3 Injector Assembly G	Stamped G	48"	n/a	
V3010-2H	WS2H/3 Injector Assembly H	Gray PVC	63"	n/a	

WS2 *

REF.		TYPICAL TANK	TYPICAL TANK DIAMETER		
	DESCRIPTION	DOWN-FLOW BRINE	UP-FLOW BRINE		
V3010-2R-15B	WS2/2H Injector R Modified Assembly w/V3010-15B	12"	14"		
V3010-2S-15C	WS2/2H Injector S Modified Assembly w/V3010-15C	13"	16"		
V3010-2T-15D	WS2/2H Injector T Modified Assembly w/V3010-15D	14"	18"		
V3010-2U-15E	WS2/2H Injector U Modified Assembly w/V3010-15E	16"	21"		
V3010-2A	WS2/2H/3 Injector Assembly A	18"	24"		
V3010-2B	WS2/2H/3 Injector Assembly B	21"	30"		
V3010-2C	WS2/2H/3 Injector Assembly C	24"	36"		
V3010-2D	WS2/2H/3 Injector Assembly D	30"	42"		
V3010-2E	WS2/2H/3 Injector Assembly E	36"	48"		
V3010-2F	WS2/2H/3 Injector Assembly F	42"	n/a		
V3010-2G	WS2/2H/3 Injector Assembly G	48"	n/a	-	

 $\textbf{*Note:} \ \ \textbf{Injector Recommendations - Above injectors are for downflow brining units,}$

For upflow brining units the injector should be "down-sized" two tank sizes.

Example: A 24" downflow softener would use a "C" injector, where as a 24" upflow softener would use an "A" injector





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