

## CLACK® CE CONTROL VAVLE

The multilingual Clack-CE control valve, was collaboratively developed by Clack® and Ecosoft engineers to work seamlessly with the ECOMIX® filtering material. It features a direct-flow regeneration type and backwash function. Regeneration can be delayed, instant, or both.

### KEY FEATURES:

- Multilingual menu (EN, DE, FR, UA)
- User-friendly and auto settings. Pre-set programs for ECOMIX® softeners units and softeners
- Text-based settings menu
- Screen backlight
- 4 available hardness units (ppm CaCO<sub>3</sub>, °dH, °fH, mg-eq/l)
- Programmable 9 regeneration cycles
- Available configuration with mixing options
- Versions with downflow and up-flow regeneration



### CLACK® CE CONTROL VAVLE

Code	Description	Flow rate, m <sup>3</sup> h		Connection
		Service, (pressure drop 1 bar)	Backwash (pressure drop 1.7 bar)	
V1CEDME-03*	WS1CE VALVE DN M I-E	6.12	6.12	1"
V1CEUME-M03*	WS1CE Valve UP M I-B with mixing valve	6.12	6.12	1"
V1CEDME-M03*	WS1CE VALVE DN M I-E with mixing valve	6.12	6.12	1"
VTT1CEDME-03*	TT1CE VALVE DN M I-E	6.36	3.4	1"
V125CEDME-08*	WS125CE DNMI-E NOTRN	7.7	7.3	1.25"
V15CEDTH-05	WS15CE DN T I-H NOTR	15.9	11.8	1.5"
V2CEDTE-05	WS2CE DNT I-E NOTRN	26.1	18.2	2"

\* Available options with different injectors

# Water Specialist CE 1" Control Specifications

Inlet/Outlet Fittings .....	¾" to 1.5" NPS
Cycles .....	up to 9
Valve Material .....	Fiber Reinforced Composite
Regeneration .....	downflow/upflow

**FLOW RATES**

Service @ 15 psi/1 bar drop (includes bypass and meter).....	102 lpm (6.12 m <sup>3</sup> /h) (27 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass).....	102 lpm (6.12 m <sup>3</sup> /h) (27 gpm)

**OPERATING PRESSURES**

Minimum/Maximum .....	20 - 125 psi (1.4 - 8.6 bar)
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**OPERATING TEMPERATURES**

Minimum/Maximum .....	40° - 110° F (4° - 43° C)
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**METER**

Accuracy .....	± 5%
Flow Rate Range .....	0.95 - 102 lpm
Volume Range .....	0.02 - 5,700 m <sup>3</sup>
Totalizer .....	1 m <sup>3</sup> - 99,999 m <sup>3</sup>

**DIMENSIONS & WEIGHT**

Distributor Pilot .....	1.050" OD Pipe (¾" NPS)
Drain Line .....	¾" or 1" NPT
Brine Line .....	¾" or 1½" OD Poly Tube
Mounting Base .....	2 ½" - 8 NPSM
Height From Top Of Tank.....	7 ¾" (187 mm)
Weight .....	4.5 lbs (2 kg)

**ELECTRICAL SPECIFICATIONS**

**POWER SUPPLY**

	<u>U.S.</u>	<u>International</u>
Supply Voltage .....	100VAC to 120VAC	200VAC to 240VAC
Supply Frequency .....	50/60 Hz	50/60 Hz
Output Voltage .....	15VDC	15VDC
Output Current .....	500 mA	500 mA

**TANK APPLICATIONS**

Water Softener .....	6" - 21" Diameter
Water Filter (1) .....	6" - 21" Diameter

**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) .....	1 - 180 minutes
Refill (softener) .....	0.05 - 90.00 Kg
Refill (filter) .....	0.2 - 76.00 Liters

*Options: Backwash Filter, Bypass, Weather Cover*

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

## Water Specialist 1" CE Twin Alternating Control Specifications

Inlet/Outlet Fittings.....	¾" to 1.5" NPS
Cycles .....	up to 9
Valve Material .....	Fiber Reinforced Composite
Regeneration .....	Downflow/Upflow

### FLOW RATES

Service @ 15 psi/1 bar drop (includes bypass and meter).....	106 lpm (6.36 m <sup>3</sup> /h) (28 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass).....	57 lpm (3.40 m <sup>3</sup> /h) (15 gpm)
Cv Service .....	7.28
Cv Backwash .....	2.96

### OPERATING PRESSURES

Minimum/Maximum .....	20 - 125 psi (1.4 - 8.6 bar)
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### OPERATING TEMPERATURES

Minimum/Maximum .....	40° - 110° F (4° - 43° C)
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### METER

Accuracy .....	± 5%
Flow Rate Range.....	0.95 - 102 lpm
Volume Range .....	0.02 - 5,700 m <sup>3</sup>
Totalizer .....	1 m <sup>3</sup> - 99,999 m <sup>3</sup>

### DIMENSIONS & WEIGHT

Distributor Pilot.....	1.050" OD Pipe (¾" NPS)
Drain Line .....	¾" or 1" NPT
Brine Line .....	¾" or ½" OD Poly Tube Compression
Mounting Base.....	2 ½" - 8 NPSM
Height From Top Of Tank.....	7 ¾" (187 mm)
Weight .....	16 lbs (7.25 kg)

### ELECTRICAL SPECIFICATIONS

### POWER SUPPLY

	U.S.	International
Supply Voltage .....	100VAC to 120VAC	200VAC to 240VAC
Supply Frequency .....	50/60 Hz	50/60 Hz
Output Voltage .....	15VDC	15VDC
Output Current .....	500 mA	500 mA

### TANK APPLICATIONS

Water Softener .....	6" - 21" Diameter
Water Filter (1) .....	6" - 21" Diameter

### 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).....	1 - 180 minutes
Refill (softener) .....	0.05 - 90.00 Kg
Refill (filter) .....	0.2 - 76.00 Liters

*Options: Backwash Filter, Bypass, Weather Cover*

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

# Water Specialist 1.25" CE Control Specifications

Inlet/Outlet Fittings.....	¾" to 1.5" NPS
Cycles .....	up to 9
Valve Material .....	Fiber Reinforced Composite
Regeneration .....	Downflow

## FLOW RATES

Service @ 15 psi/1 bar drop (includes meter, bypass, and 1.25" fitting kit) ...	129 lpm (7.7 m³/h) (34 gpm)
Backwash @ 25 psi/1.7 bar drop.....	121 lpm (7.3 m³/h) (32 gpm) (1)

## OPERATING PRESSURES

Minimum/Maximum .....	20 - 125 psi (1.4 - 8.6 bar)
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## OPERATING TEMPERATURES

Minimum/Maximum .....	40° - 110° F (4° - 43° C)
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## METER

Accuracy .....	± 5%
Flow Rate Range.....	0.95 - 129 lpm
Volume Range .....	0.02 - 5,700 m³
Totalizer .....	1 m³ - 99,999 m³

## DIMENSIONS & WEIGHT

Distributor Pilot.....	1.32" OD Pipe (1" NPS) or 32 mm OD
Drain Line .....	¾" or 1" NPT
Brine Line .....	¾" or ½" OD Poly Tube
Mounting Base.....	2½" - 8 NPSM
Height From Top Of Tank.....	7¾" (187 mm)
Weight .....	4.5 lbs (2 kg)

## ELECTRICAL SPECIFICATIONS

## POWER SUPPLY

	U.S.	International
Supply Voltage .....	100VAC to 120VAC	200VAC to 240VAC
Supply Frequency .....	50/60 Hz	50/60 Hz
Output Voltage .....	15VDC	15VDC
Output Current .....	500 mA	500 mA

## TANK APPLICATIONS

Water Softener .....	6" - 21" Diameter
Water Filter (2) .....	6" - 24" Diameter

## 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).....	1 - 180 minutes
Refill (softener).....	0.05 - 90.00 Kg
Refill (filter) .....	0.2 - 76.00 Liters

*Options: Backwash Filter, Bypass, Weather Cover*

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area / 407 lpm per square meter of bed area

# Water Specialist 1.5" CE Control Specifications

Inlet/Outlet (1) .....	1.5" Female BSPT or NPT
Cycles .....	Up to 9
Valve Material .....	Lead free brass
Regeneration .....	Downflow

## CONTROL VALVE FLOW RATES

Service @ 1 bar/15 psi drop (includes meter) .....	265 lpm (15.9 m <sup>3</sup> /h) (70 gpm)
Backwash @ 1.7 bar/25 psi drop .....	197 lpm (11.8 m <sup>3</sup> /h) (52 gpm)

## OPERATING PRESSURES

Minimum/Maximum .....	1.4 - 8.6 bar (20 - 125 psi)
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## OPERATING TEMPERATURES

Minimum/Maximum .....	4° - 43° C (40° - 110° F)
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## METER SPECIFICATIONS

Accuracy .....	± 5%
Flow Rate Range .....	2 - 284 lpm (0.5 - 75 gpm)
Volume Range .....	0.02 - 5,700 m <sup>3</sup>
Totalizer .....	1 - 99,999 m <sup>3</sup> (264 - 26,417,000 gallons)

## DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with 1.5" Female BSPT Inlet & Outlet .....	50 mm OD
Valve bodies with 1.5" Female NPT Inlet & Outlet .....	1.90" OD (1.5" NPS)
Drain Line Connection(2) .....	1.25" Female NPT
Adapter Included .....	¾" Male NPT Elbow
Brine Line Connection .....	¾" Female NPT
Adapter Included .....	½" OD Poly Tube Compression
Mounting Base .....	4" - 8 UN
Height From Top Of Tank .....	191 mm (7.5")
Shipping Weight With Meter .....	9.5 kg (21 lbs.)

## ELECTRICAL SPECIFICATIONS

## POWER SUPPLY

	U.S.	International
Supply Voltage .....	100VAC to 120VAC	200VAC to 240VAC
Supply Frequency .....	50/60 Hz	50/60 Hz
Output Voltage .....	15VDC	15VDC
Output Current .....	500 mA	500 mA

## TANK APPLICATIONS

Water Softener .....	12" - 24" Diameter
Water Filter (3) .....	12" - 30" Diameter

## 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) .....	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

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

# Water Specialist 2" CE Control Specifications

Inlet/Outlet .....	2" Female BSPT or NPT
Cycles .....	Up to 9
Valve Material .....	Lead free brass
Regeneration .....	Downflow

### CONTROL VALVE FLOW RATES

Service @ 1 bar/15 psi drop .....	435 lpm (26.1 m <sup>3</sup> /h) (115 gpm)
Backwash @ 1.7 bar/25 psi drop.....	303 lpm (18.2 m <sup>3</sup> /h) (80 gpm)
Cv Service .....	29.7
Cv Backwash .....	16.0

### OPERATING PRESSURES

Minimum/Maximum .....	1.4 - 8.6 bar (20 psi - 125 psi)
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### OPERATING TEMPERATURES

Minimum/Maximum .....	4° - 43° C (40° - 110° F)
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### METER SPECIFICATIONS

Accuracy .....	± 5%
Flow Rate Range.....	5.7 - 568 lpm (1.5 - 150 gpm)
Volume Range.....	0.02 - 5,700 m <sup>3</sup>
Totalizer .....	1 - 99,999 m <sup>3</sup> (264 - 26,417,000 gallons)

### DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with 2" Female BSPT Inlet & Outlet.....	50mm OD
Valve bodies with 2" Female NPT Inlet & Outlet .....	1.90" OD (1.5" NPS)
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.....	216 mm (8.5")
Shipping Weight With Meter .....	13 Kg (29 lbs.)

### ELECTRICAL SPECIFICATIONS

### POWER SUPPLY

	U.S.	International
Supply Voltage .....	100VAC to 120VAC ...	200VAC to 240VAC
Supply Frequency .....	50/60 Hz .....	50/60 Hz
Output Voltage .....	15VDC .....	15VDC
Output Current .....	500 mA .....	500 mA

### TANK APPLICATIONS

Water Softener .....	12" - 48" diameter
Water Filter (2).....	12" - 36" diameter

### 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).....	1 - 180 minutes
Refill (softener).....	0.1 - 99.0 minutes
Refill (filter) .....	0.1 - 99.0 minutes

*Options: Backwash Filter, Weather Cover*

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines