

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 CaCO₃, °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 ³ 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 ³ /h) (27 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass).....	102 lpm (6.12 m ³ /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 ³
Totalizer	1 m ³ - 99,999 m ³

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 ³ /h) (28 gpm)
Backwash @ 25 psi/1.7 bar drop (includes bypass).....	57 lpm (3.40 m ³ /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 ³
Totalizer	1 m ³ - 99,999 m ³

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)	
OPERATING TEMPERATURES		
Minimum/Maximum	40° - 110° F (4° - 43° C)	
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		
	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 ³ /h) (70 gpm)
Backwash @ 1.7 bar/25 psi drop	197 lpm (11.8 m ³ /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 ³
Totalizer	1 - 99,999 m ³ (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 ³ /h) (115 gpm)
Backwash @ 1.7 bar/25 psi drop.....	303 lpm (18.2 m ³ /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 ³
Totalizer	1 - 99,999 m ³ (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