

# Clack®

# WS1.5CI

## WATER SPECIALIST CONTROL VALVE



**NSF**

Certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372.

- 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 m<sup>3</sup>/h) (70 gpm), backwash 197 lpm (11.8 m<sup>3</sup>/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 rate
- 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 refill
- Low salt alarm
- 24 hour clock
- Coin Cell Lithium battery back-up with a 24 hour carry over
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation
- Reliable and proven DC drive



Optional 1.5" Meter

# Water Specialist 1.5" CI 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

1. See Distributor Pilot.

2. Casting comes with a 1.25" Female NPT drain connection. An adapter is provided to accept existing WS1 drain line ¾" Male NPT flow controls up to 38 lpm (10 gpm). Other drain line flow controls are available for flow rates above 38 lpm (10 gpm).

3. Filter tank size calculated @ 407 lpm per m<sup>2</sup> of bed area/10 gpm of backwash per square foot of bed area.