

Clack™ 

WS1.5
CI

WATER SPECIALIST **1.5" CI CONTROL VALVE**



Optional 1.5" Meter

- **1.5" top mount control valve suited for mid-size commercial/industrial applications**
- **Lead free brass valve body**
- **Economical optional meter**
- **Service flow rate of 227 lpm (13.6 m³/h) (60 gpm), backwash 189 lpm (11.4 m³/h) (50 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**
- **12-volt output AC Adapter provides safe and easy installation**
- **Treated water regenerant refill**
- **Low salt alarm**
- **24 hour clock**
- **Coin Cell Lithium battery back-up with a 24 hour power carry over**
- **Reliable and proven DC drive**

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)	227 lpm (13.6 m ³ /h) (60 gpm)
Backwash @ 1.7 bar/25 psi drop.....	189 lpm (11.4 m ³ /h) (50 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 (5 - 1,500,000 gallons)
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

	AC Adapter	
	International	U.S.
Supply Voltage	230V AC.....	120V AC
Supply Frequency	50 Hz.....	60 Hz
Output Voltage	12V AC.....	12V AC
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 - 95.00 Kg
Refill (filter)	0.05 - 95.00 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 m² of bed area/10 gpm of backwash per square foot of bed area