

Clack Corporation

**WS1.5
CI**

WATER SPECIALIST 1.5" CI CONTROL VALVE



shown with optional meter and 1" straight fitting

- **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, backwash 189 lpm**
- **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**
- **Capacitor back-up with up to 2 hour power carry over**
- **Reliable and proven DC drive**

Water Specialist 1.5" CI Control Specifications

Inlet/Outlet (1)	1.5" FPT
Cycles	up to 9
Valve Material	Lead free brass
Regeneration	Downflow

FLOW RATES

Service @15 psi/1 bar drop (includes meter)	60 gpm (227 lpm)
Backwash @ 25 psi/1.7 bar drop	50 gpm (189 lpm)

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	0.5 - 60 gpm (2 - 227 lpm)
Volume Range	0.02 to 2000.0 m ³
Totalizer	1 - 99,999 m ³

DIMENSIONS & WEIGHT

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

ELECTRICAL SPECIFICATIONS

AC Adapter

	U.S.	International
Supply Voltage	120V AC.....	230V AC
Supply Frequency	60 Hz.....	50 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" FPT drain connection. An adapter is provided to accept existing WS1 drain line flow controls up to 25 gpm.

3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area/407 lpm per m² of bed area