

Clack™ 

**WS2
CI**

WATER SPECIALIST 2" CI CONTROL VALVE



- **2" Top mount control valve suited for commercial/industrial applications**
- **Lead free brass construction**
- **Economical stainless steel optional meter assembly**
- **Service flow rate of 435 lpm (115 gpm), backwash 303 lpm (80 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 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**
- **Coin Cell Lithium battery back-up with an 24 hour power carry over**
- **12-volt output AC Adapter provides safe and easy installation**
- **Treated water regenerant refill**
- **24 Hour Clock**
- **Reliable and proven DC drive**

Water Specialist 2" CI Control Specifications

Inlet/Outlet (1)	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 m ³ /h) (115 gpm)
Backwash @ 1.7 bar/25 psi drop.....	303 lpm (18 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 (5 - 1,500,000 gallons)
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, ¾" x 1" solvent weld elbow and ½" 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

	AC Adapter	
	<u>International</u>	<u>U.S.</u>
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" - 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

1. See Distributor Pilot

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