

Clack®

WS2CI/QC

WATER SPECIALIST CONTROL VALVE



- 2" top mount or side mount control valve suited for commercial/industrial applications
- Lead free brass construction
- Economical stainless steel optional meter assembly
- Service flow rate of 473 lpm (28.4 m³/h) (125 gpm), backwash 322 lpm (19.3 m³/h) (85 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 carry over
- 12-volt output AC Adapter provides safe and easy installation
- Pre or Post treated water regenerant refill
- 24 Hour Clock
- Reliable and proven DC drive
- Patented one piece expanding seal spacer stack assembly U.S. Patent 6,402,944
- Patented linearly reciprocating piston operation U.S. Patent 6,444,127
- Patented quiet drain line flow control assembly U.S. Patent 6,776,901



Optional 2" Meter



Side Mount Adapter

Water Specialist 2" CI/QC 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	473 lpm (28.4 m ³ /h) (125 gpm)
Backwash @ 1.7 bar/25 psi drop.....	322 lpm (19.3 m ³ /h) (85 gpm)
Cv Service	32.3
Cv Backwash	17.0

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.....	63mm OD
Valve bodies with 2" Female NPT Inlet & Outlet	2.37" OD (2" 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, 6" Flange or Side Mount
Height From Top Of Tank with 4" - 8 UN QC Base.....	284.5mm (11.2")
Height From Top Of Tank with 6" Flange QC Base	287mm (11.3")
Shipping Weight With Meter	14 Kg (30 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" - 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