

Clack[®] 

WS2CI/QC

WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI 61 and 372*

- 2" top mount or side mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body*
- 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



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)
OPERATING TEMPERATURES	
Minimum/Maximum	4° - 43° C (40° - 110° F)
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, 3/4" x 1" solvent weld elbow and 1/2" 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
	<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