

Clack® 

WS1.5PEI

WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372.



- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Glass filled composite
- Economical plastic optional meter assembly
- Service flow rate of 227 lpm (13.6 m³/h) (60 gpm), backwash 163 lpm (9.8 m³/h) (43 gpm)
- Solid state microprocessor with easy access front panel settings
- Upflow/downflow brining field convertible
- Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency
- Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining or upflow brining, slow rinse, second backwash, fast rinse, refill and downflow service
- Coin cell lithium battery backup for time of day up to 8 hours
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- 24 hour clock
- Days override feature; 1 – 28 days available
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation
- Reliable and proven DC drive

Water Specialist 1.5" Plastic EI Control Specifications

Inlet/Outlet (1)	1.5" Male BSPT or NPT
Cycles	Up to 6
Valve Material	Glass filled composite
Regeneration	Downflow / Upflow

CONTROL VALVE FLOW RATES

Service @ 1 bar/15 psi drop (includes meter)	227 lpm (13.6 m ³ /h) (60 gpm)
Backwash @ 1.7/25 psi bar drop	163 lpm (9.8 m ³ /h) (43 gpm)

OPERATING PRESSURES

Minimum/Maximum	1.4 - 8.6 bar (20 - 125 psi)
-----------------------	------------------------------

OPERATING TEMPERATURES

Minimum/Maximum	4° - 43° C (40° - 110° F)
-----------------------	---------------------------

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	1" Male BSPT Elbow
Brine Line Connection	½" OD Poly Tube Compression
Mounting Base	4" - 8 UN
Height From Top Of Tank.....	273.05 mm (10.75")
Shipping Weight.....	4.1 kg (9 lb)

ELECTRICAL SPECIFICATIONS

POWER SUPPLY

	<u>U.S.</u>	<u>International</u>
Supply Voltage	100VAC to 120VAC	200VAC to 240VAC
Supply Frequency	50/60 Hz.....	50/60 Hz
Output Voltage	15VDC	15VDC
Output Current	500 mA.....	500 mA

TANK APPLICATIONS

Water Softener	12" - 24" Diameter
Water Filter (2).....	12" - 24" Diameter

CYCLES OF OPERATION

Cycle	<u>Softener</u>	<u>Filter</u>
	Range of time in minutes	
1. Backwash 1 st (upflow)	1-95.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow)	1-180	
3. Backwash 2 nd (upflow).....	1-95	
4. Fast Rinse (downflow)	1-95.....	Rinse 1-95
5. Regenerant Refill (in service with treated water).....	0.1-99.0 or off	
6. Service (downflow)		

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.