Clack®

WS1.5PBEI

WATER SPECIALIST CONTROL VALVE

INDEPENDENTLY NSF CERTIFIED® PENDING

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

shown with optional 1.5" bypass

- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Glass filled composite
- Economical glass filled composite optional meter assembly
- Service flow rate of 182 lpm (10.9 m^3/h) (48 gpm), backwash 163 lpm (9.8 m^3/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 1.5PBEI Glass Filled Composite 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)	182 lpm (10.9 m^3/h) (48 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.S.	International
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

	Softener	Filter
Cycle	Range of time in minutes	
1. Backwash 1st (upflow)	1-95	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow)	1-180	
3. Backwash 2nd (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 m^2 of bed area/10 gpm of backwash per square foot of bed area.