Clack®

WS2PEI

WATER SPECIALIST CONTROL VALVE

INDEPENDENTLY NSF CERTIFIED

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

Optional 2" Plastic Meter

- 2” top mount control valve suited for commercial/industrial applications
- Glass filled composite valve body
- Economical glass filled composite optional meter assembly
- Service flow rate of 359 lpm (21.6 m^3/h) (95 gpm), backwash 322 lpm (19.3 m^3/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, 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 back-up with an 8 hour carry over
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- 24 Hour Clock
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation

Water Specialist 2" Plastic EI Control Specifications

Inlet/Outlet (1)	2" QC fitting optional straight or 90°
Cycles	Up to 6
Valve material	Glass filled composite
Regeneration	Downflow or Upflow (must be ordered, cannot be converted in field)

CONTROL VALVE FLOW RATES

Service @ 1 bar/15 psi drop (includes meter)	359 lpm (21.6 m^3/h) (95 gpm)
Backwash @ 1.7/25 psi bar drop	322 lpm (19.3 m^3/h) (85 gpm)
Cv Service	24.5
Cv Backwash	17.0

OPERATING PRESSURES

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

OPERATING TEMPERATURES

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

OPTIONAL 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	0.001 - 4,294,000 m^3 (.26 - 1,134,355,000 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	2" QC x 1.5" Male BSPT elbow
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	317.5 mm (12.5")
Shipping weight	4.98 Kg (11 lb)

ELECTRICAL SPECIFICATIONS

	POWER SUPPLY U.S.	POWER SUPPLY International
Supply voltage	100VAC to 240VAC	100VAC 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" - 48" diameter
Water filter (2)	12" - 36" diameter

CYCLES OF OPERATION

Cycle	Softener: Range of time in minutes	Filter: Range of time in minutes
1. Backwash 1st (upflow)	1-95	Backwash 1-95 or off
2. Regenerate Draw/Slow Rinse (downflow)	1-180 or off	
3. Backwash 2nd (upflow)	1-95 or off	
4. Fast Rinse (downflow)	1-95	Rinse 1-95 or off
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 @ 322 lpm/12 gpm of backwash per square foot of bed area