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Clack®

WS1SP

WATER SPECIALIST CONTROL VALVE

Battery Valve w/ Solar Panel
V1SPDME-P03

Battery Valve w/ AC Adapter
V1SPDME

shown with optional bypass

- Solar panel or AC adapter recharges 6 "AA" re-chargable Nickel Metal Hydride Batteries
- Can be programmed for automatic variable reserve, based on water usage history for high efficiency
- Solid state microprocessor with easy access front panel settings
- Service flow rate of 27 gpm, backwash 27 gpm
- 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/slow rinse, second backwash, fast rinse, refill and downflow service
- Coin Cell Lithium battery back-up with a 8 hour carry over of time of day
- Backwash and brining ability to 21” diameter tanks
- Downflow regeneration
- Control valve design provides optimum service and backwash rates
- Post treated water regenerant refill
- 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
- Reliable and proven DC drive

Water Specialist 1” SP Control Specifications

Inlet/Outlet Fittings	¾" to 1.5” NPS
Cycles	up to 6
Valve Material	Noryl (1) or equivalent
Regeneration	Downflow

FLOW RATES

Service @15 psi drop (includes bypass and meter)	27 gpm
Backwash @ 25 psi drop (includes bypass)	27 gpm
Cv Service	7.0
Cv Backwash	5.4

OPERATING PRESSURES

Minimum/Maximum	20 psi – 125 psi

OPERATING TEMPERATURES

Minimum/Maximum	40° – 110° F

METER

Accuracy	± 5%
Flow Rate Range	0.25 – 27 gpm
Gallon Range	20 – 50,000 gallons
Totalizer	1000 - 9,999,000 gallons

VALVE DIMENSIONS & WEIGHT

Distributor Pilot	1.050" OD Pipe (¾" NPS)
Drain Line	¾” or 1” Male NPT
Brine Line	⅜” or ½” OD Poly Tube Compression
Mounting Base	2 ½” - 8 NPSM
Height From Top Of Tank	7 ⅜”
Weight	4.5 lbs.

SOLAR PANEL & BATTERY SPECIFICATIONS

Amorphous silicon solar panel
Modular snap together Solar Panel capable of three tilt angles
Solar panel recharges 6 replaceable AA nickel metal hydride batteries
Batteries mounted behind circuit board
Smart charger circuitry turns on and off to extend battery life

TANK APPLICATIONS

Water Softener	6” – 21” diameter
Water Filter (2)	6” – 21” diameter

CYCLES OF OPERATION (Softener Downflow)

Cycle	Softener Range of time in minutes	Filter
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)		

When replacing batteries follow state or local regulations for recycling and disposal.
Outdoor applications require weather cover.

Options: Backwash Filter, Bypass

Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area