

**Clack**<sup>®</sup> 

# WS2SP/QC

## WATER SPECIALIST CONTROL VALVE



**Battery Valve w/ Solar Panel  
V2SPDME-P03**



**Battery Valve w/ AC Adapter  
V2SPDME**



Certified to NSF/ANSI 61 and 372\*

- Solar panel or AC adapter recharges 6 "AA" re-chargeable Nickel Metal Hydride Batteries
- Can be programmed for automatic variable reserve, based on water usage history for high efficiency
- 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 125 gpm, backwash 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/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
- 12-volt output AC Adapter provides safe and easy installation
- Post treated water regenerant refill
- 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" SP/QC Control Specifications

Inlet/Outlet (1) .....	2" Female NPT
Cycles .....	up to 6
Valve Material .....	Lead free brass
Regeneration .....	Downflow

## CONTROL VALVE FLOW RATES

Service @15 psi drop .....	125 gpm
Backwash @ 25 psi drop .....	85 gpm
Cv Service .....	32.3
Cv Backwash .....	17.0

## OPERATING PRESSURES

Minimum/Maximum .....	20 psi – 125 psi
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## OPERATING TEMPERATURES

Minimum/Maximum .....	40° – 110° F
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## METER SPECIFICATIONS

Accuracy .....	± 5%
Flow Rate Range.....	1.5 – 150 gpm
Gallon Range.....	20 – 1,500,000 gallons
Totalizer .....	1 – 9,999,000 gallons

## DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with 2" Female NPT Inlet & Outlet .....	2.375" OD (2" NPS)
Drain Line Connection .....	1.5" Female NPT
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, 6" Flange or Side Mount
Height From Top Of Tank with 4" - 8 UN QC Base.....	11.2"
Height From Top Of Tank with 6" Flange QC Base .....	11.3"
Shipping Weight With Meter .....	30 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 .....	12" – 48" diameter
Water Filter (2).....	12" – 36" diameter

## CYCLES OF OPERATION

Cycle	Softener		Filter	
	Range of time in minutes			
1. Backwash 1 <sup>st</sup> (upflow) .....	1-95.....		Backwash	1-95
2. Regenerate Draw/Slow Rinse (downflow) .....	1-180			
3. Backwash 2 <sup>nd</sup> (upflow).....	1-95.....		Rinse	1-95
4. Fast Rinse (downflow) .....	1-95			
5. Regenerant Refill (in service with treated water).....	0.1-99.0			
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 @ 10 gpm of backwash per square foot of bed area