

## WS2SP

### 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 control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body\*
- Economical stainless steel optional meter assembly
- Service flow rate of 115 gpm, backwash 80 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**

# Water Specialist 2" SP 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 (includes meter)..... | 115 gpm |
| Backwash @ 25 psi drop .....               | 80 gpm  |
| Cv Service .....                           | 29.7    |
| Cv Backwash .....                          | 16.0    |

## OPERATING PRESSURES

|                       |                  |
|-----------------------|------------------|
| Minimum/Maximum ..... | 20 psi – 125 psi |
|-----------------------|------------------|

## OPERATING TEMPERATURES

|                       |              |
|-----------------------|--------------|
| Minimum/Maximum ..... | 40° – 110° F |
|-----------------------|--------------|

## 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 ..... | 1.90" OD (1.5" NPS)                                                                     |
| Drain Line Connection .....                          | 1.5" Female NPT                                                                         |
| Brine Line Adapters Included.....                    | 1" Male NPT elbow,<br>3/4" x 1" solvent weld elbow and<br>1/2" OD Poly Tube Compression |
| Mounting Base .....                                  | 4" - 8 UN                                                                               |
| Height From Top Of Tank.....                         | 8.5"                                                                                    |
| Shipping Weight With Meter .....                     | 29 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

|                                                           | Softener                 | Filter        |
|-----------------------------------------------------------|--------------------------|---------------|
| Cycle                                                     | 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