

WS2SQ

WATER SPECIALIST CONTROL VALVE



**Battery Valve w/ Solar Panel
V2SQDME-P03**



**Battery Valve w/ AC Adapter
V2SQDME**



Optional 2" Meter

- 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
- Lead free brass construction
- Economical stainless steel optional meter assembly
- Service flow rate of 435 lpm (26.1 m³/h) (115 gpm), backwash 303 lpm (18.2 m³/h) (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
- Patented quiet drain line flow control assembly U.S. Patent 6,776,901

Water Specialist 2" SQ 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).....	435 lpm (26.1 m ³ /h) (115 gpm)
Backwash @ 25 psi drop	303 lpm (18.2 m ³ /h) (80 gpm)
Cv Service	29.7
Cv Backwash	16.0

OPERATING PRESSURES

Minimum/Maximum	1.4 - 8.6 bar
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OPERATING TEMPERATURES

Minimum/Maximum	4° - 43° C
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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 NPT Inlet & Outlet	1.90" OD (1.5" NPS)
Drain Line Connection	1.5" Female NPT
Brine Line Adapters Included.....	1" Male NPT elbow, 3/4" x 1" solvent weld elbow and 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

	<u>Softener</u>	<u>Filter</u>
Cycle	Range of time in minutes	
1. Backwash 1 st (upflow)	1-20.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow)	1-180	
3. Backwash 2 nd (upflow).....	1-20.....	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