



WS1SQ

WATER SPECIALIST CONTROL VALVE



Battery Valve w/ Solar Panel
V1SQDME-P03



shown with optional bypass



Certified to NSF/ANSI 44, NSF/ANSI/CAN 61 and 372.

- Solar panel or DC power supply recharges 6 "AA" re-chargeable 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 102 lpm (6.12 m³/h) (27 gpm), backwash 102 lpm (6.12 m³/h) (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/Upflow regeneration
- Control valve design provides optimum service and backwash rates
- Post treated water regenerant refill
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation
- Mixing valve option available

Water Specialist 1" SQ Control Specifications

Inlet/Outlet Fittings.....	3/4" to 1.5" NPS
Cycles	up to 6
Valve Material	Glass Filled Composite
Regeneration	Downflow

FLOW RATES

Service @15 psi drop (includes bypass and meter)	102 lpm (6.12 m ³ /h) (27 gpm)
Backwash @ 25 psi drop (includes bypass)	102 lpm (6.12 m ³ /h) (27 gpm)
Cv Service	7.0
Cv Backwash	5.4

OPERATING PRESSURES

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

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

Accuracy	± 5%
Flow Rate Range.....	0.95 - 102 lpm
Volume Range	0.02 - 5,700 m ³
Totalizer	0.001 - 9,999,000 m ³

VALVE DIMENSIONS & WEIGHT

Distributor Pilot	1.050" OD Pipe (3/4" NPS)
Drain Line	3/4" or 1" Male NPT
Brine Line	3/8" or 1/2" OD Poly Tube Compression
Mounting Base	2 1/2" - 8 NPSM
Height From Top Of Tank.....	7 3/8" (187 mm)
Weight	4.5 lb. (2 kg)

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 (1).....	6" – 21" diameter

CYCLES OF OPERATION (Softener Downflow)

Cycle	<u>Softener</u>	<u>Filter</u>
Range of time in minutes		
1. Backwash 1 st (upflow)	1-95.....	Backwash 1-95
2. Regenerate Draw/Slow Rinse (downflow or upflow).....	1-180	
3. Backwash 2 nd (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. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area