

Clack®

WS1.5SQ

WATER SPECIALIST CONTROL VALVE



Battery Valve w/ Solar Panel
V15SQDME-P03



Battery Valve w/ AC Adapter
V15SQDME



- 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
- 1.5" top mount control valve suited for mid-size commercial/industrial applications
- Lead free brass valve body
- Economical stainless steel optional meter assembly
- Service flow rate of 265 lpm (15.9 m³/h) (70 gpm), backwash 197 lpm (11.8 m³/h) (52 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 8 hour carry over of time of day
- 12-volt output AC Adapter provides safe and easy installation
- 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
- Post treated water regenerant refill
- Reliable and proven DC drive



Optional 1.5" Meter

Water Specialist 1.5" SQ Control Specifications

Inlet/Outlet (1)	1.5" Female NPT
Cycles	up to 6
Valve Material	Lead free brass
Regeneration	Downflow

CONTROL VALVE FLOW RATES

Service @15 psi drop (includes meter).....	265 lpm (15.9 m ³ /h) (70 gpm)
Backwash @ 25 psi drop	197 lpm (11.8 m ³ /h) (52 gpm)
Cv Service	18.1
Cv Backwash	10.4

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	2 - 284 lpm (0.5 - 75 gpm)
Volume Range	0.02 - 5,700 m ³
Totalizer	0.001 - 4,294,000 m ³ (.26 - 1,134,355,000 gallons)

DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with 1.5" Female NPT Inlet & Outlet	1.90" OD (1.5" NPS)
Drain Line Connection (2)	1.25" Female NPT
Adapter Included.....	¾" Male NPT Elbow
Brine Line Connection	¾" Female NPT
Adapter Included.....	½" OD Poly Tube Compression
Mounting Base.....	4" - 8 UN
Height From Top Of Tank.....	190.5mm
Shipping Weight With Meter	9.52 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	12" - 30" diameter (4)
Water Filter (3).....	12" - 30" 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. Casting comes with a 1.25" Female NPT drain connection. An adapter is provided to accept existing WS1 drain line ¾" Male NPT flow controls up to 10 gpm. Other drain line flow controls are available for flow rates above 10 gpm.

3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area

4. Requires a V3158-02 installed for a brine elbow on the control valve, use of a 454 controlled flow brine valve assembly H7070-36CF-5 or H7070-54CF-5 (designed with 5gpm BLFC) , 1" air check, or 494 brine valve assembly, and minimum ¾" hard pipe PVC brine line.