

# Clack®

# WS1.25SQ

## WATER SPECIALIST CONTROL VALVE



**Battery Valve w/ Solar Panel  
V125SQDME-P03**



**Battery Valve w/ AC Adapter  
V125SQDME**



shown with optional bypass

- 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 129 lpm (7.72 m<sup>3</sup>/h) (34 gpm), backwash 121 lpm (7.26 m<sup>3</sup>/h) (32 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

# Water Specialist 1.25" SQ Control Specifications

Inlet/Outlet Fittings.....	¾" to 1.5" NPS
Cycles .....	up to 6
Valve Material .....	Noryl (1) or equivalent
Regeneration .....	Downflow

## FLOW RATES

Service @15 psi drop (includes bypass and meter) .....	129 lpm (7.74 m³/h) (34 gpm)
Backwash @ 25 psi drop (includes bypass) .....	121 lpm (7.26 m³/h) (32 gpm) (2)
Cv Service .....	8.8
Cv Backwash .....	6.4

## 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 m³
Totalizer .....	0.001 - 9,999,000 m³

## DIMENSIONS & WEIGHT

Distributor Pilot .....	1.32" OD Pipe (1" NPS) or 32mm OD
Drain Line .....	¾" or 1" Male NPT
Brine Line .....	⅜" or ½" OD Poly Tube Compression
Mounting Base.....	2 ½" - 8 NPSM
Height From Top Of Tank.....	7 ⅜" (187 mm)
Weight .....	4.5 lbs. (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 (3) .....	6" – 24" diameter

## CYCLES OF OPERATION

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

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company
2. Aquired by use of external drain line flow control
3. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area