



Clack®

WS3

WATER
SPECIALIST
CONTROL
VALVE



NSF

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

- **Control Valve Flow Rates:** Service 250 gpm (946 lpm) (56.8 m3/h)
Backwash 220 gpm (833 lpm) (50.0 m3/h)
- Epoxy coated lead free brass valve body
- Fully programmable regeneration cycle times and sequences (maximum 9)
- Network up to 16 valves using Cat5 cable or better
- Methods to initiate regeneration: Meter Delayed, Meter Immediate, Time Clock Delay, Remote Input
- Add up to 2 relay expansion boards to circuit board (sold separately)
- Top-mount or side-mount capabilities for commercial and industrial applications
- Programmable System types: Alternating, Progressive Flow, Series, Single
- Days override feature; 1-28 days or day/s of the week
- Blue backlight front display shows: Time and Date, Current Flow Rate, Volume Used, Volume Remaining, Days Remaining
- Diagnostics and history viewing
- Modbus RS485 duplex to communicate with building automation systems
- Remote circuit board software update capability
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly

Water Specialist 3" Control Specifications



Inlet/Outlet (1)	3" Female NPT or BSPT
Cycles	up to 9
Valve Material	Lead free brass
Regeneration	Downflow
CONTROL VALVE FLOW RATES	
Service @ 15 psi/1 bar drop	250 gpm (946 lpm) (56.8 m3/h)
Backwash @ 25 psi/1.7 bar drop	220 gpm (833 lpm) (50.0 m3/h)
Cv Service.....	64.6
Cv Backwash	44.0
OPERATING PRESSURES	
Minimum/Maximum	20 - 125 psi (1.4 - 8.6 bar)
OPERATING TEMPERATURES	
Minimum/Maximum	40° - 110° F (4o - 43o C)
METER SPECIFICATIONS	
Accuracy	± 5%
Flow Rate Range	3.5 - 350 gpm (13.3 - 1325 lpm)
Volume Range	10 - 999,000 gallons (38 - 3,796.2 liters x1000)
Totalizer	1,000 - 999,999,000 gallons (3,786 - 3,785,407.9 liters x1000)
DIMENSIONS & WEIGHT	
Distributor Pilot	
Valve Bodies with 3" Female NPT Inlet & Outlet	3.5" OD (3" NPS)
Valve Bodies with 3" Female BSPT Inlet & Outlet	90mm OD
Drain Line Connection	3" Female NPT/BSPT "No Groove Lock"
Brine Line Adapters Included	1" Male NPT elbow and ¾" x 1" solvent weld elbow
Mounting Base	6" Flange or Side Mount
Height From Top Of Tank with 6" Flange QC Base	12.5" (318mm)
Shipping Weight Without Optional Meter	57 lbs (25.9 Kg)
ELECTRICAL SPECIFICATIONS	
	POWER SUPPLY
	<u>U.S.</u> <u>International</u>
Supply Voltage	120VAC240VAC
Supply Frequency	60 Hz60 Hz
Output Voltage	24VDC24VDC
Output Current	800 mA800 mA
TANK APPLICATIONS	
Water Softener	18" - 63" Diameter with standard injectors, to 96" with Brine Pump
Water Filter (2)	18" - 63" Diameter
CYCLES OF OPERATION	
Choose up to nine regeneration cycles, in any order, with a wide range of available values:	
Cycle	Range of values
Backwash	1 - 95 minutes
Brine (draw)	1 - 180 minutes
Slow Rinse	1 - 95 minutes
Fast Rinse	1 - 95 minutes
Refill	0.1 - 99 minutes
Hold (service)	1 - 480 minutes

Options: Backwash Filter

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/407 lpm per m2 of bed area