

**Clack**<sup>™</sup> 

**WS3**

## **WATER SPECIALIST 3" CONTROL VALVE**



- **3" top mount or side mount control valve suited for commercial and industrial applications**
- **Lead free brass valve body**
- **Economical stainless steel optional meter assembly**
- **Service flow rate 250 gpm (946 lpm), Backwash flow rate 220 gpm (833 lpm)**
- **Solid state microprocessor with easy access front removable POD**
- **Front panel display for Time of Day, Current Flow Rate, Totalizer and Volume/Days until Regeneration**
- **Four methods to initiate the down flow regeneration; meter delayed, meter immediate, time clock delayed, or pressure differential**
- **Fully programmable regeneration cycle sequences (maximum 9)**
- **Fully programmable regeneration cycle times**
- **Treated water regenerant refill**
- **Days override feature; 1-28 days available**
- **Capacitor back-up with up to 24 hour power carry over**
- **24-volt output AC adapter provides safe and easy installation**
- **Reliable and proven DC drive**



Optional 3" Meter

# Water Specialist 3" Control Specifications

Inlet/Outlet (1) .....	3" Female NPT or BSPT
Cycles .....	up to 9
Valve Material .....	Lead free brass
Regeneration .....	Downflow
<b>CONTROL VALVE FLOW RATES</b>	
Service @ 15 psi/1 bar drop.....	250 gpm (946 lpm)
Backwash @ 25 psi/1.7 bar drop.....	220 gpm (833 lpm)
Cv Service.....	64.6
Cv Backwash.....	44.0
<b>OPERATING PRESSURES</b>	
Minimum/Maximum .....	20 - 125 psi (1.4 - 8.6 bar)
<b>OPERATING TEMPERATURES</b>	
Minimum/Maximum .....	40° - 110° F (4° - 43° C)
<b>METER SPECIFICATIONS</b>	
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)
<b>DIMENSIONS &amp; WEIGHT</b>	
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 "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.....	12.25" (311mm)
Shipping Weight Without Optional Meter .....	57 lbs (25.9 Kg)
<b>ELECTRICAL SPECIFICATIONS</b>	
	<b>AC Adapter</b>
	<u>U.S.</u> <u>International</u>
Supply Voltage .....	120V AC..... 230V AC
Supply Frequency .....	60 Hz..... 50Hz
Output Voltage .....	24V AC..... 24V AC
Output Current .....	750 mA..... 750mA
<b>TANK APPLICATIONS</b>	
Water Softener .....	18" - 63" Diameter with standard injectors, to 96" with Brine Pump
Water Filter (2).....	18" - 63" Diameter
<b>CYCLES OF OPERATION</b>	
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 m<sup>2</sup> of bed area