

# Clack Corporation

**WS2**

## **WATER SPECIALIST 2" CONTROL VALVE**

shown with optional bypass valve



- **2" top mount or side mount control valve suited for commercial and industrial applications**
- **Lead free brass valve body and optional bypass valve**
- **Meter standard with all valves**
- **Service flow rate 125 gpm (473 lpm), Backwash flow rate 125 gpm (473 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**

# Water Specialist 2" Control Specifications

Inlet/Outlet (1) .....	2" FPT or 2.5" Victaulic
Cycles .....	up to 9
Valve Material .....	Lead free brass
Regeneration .....	downflow

## FLOW RATES

Service @15 psi drop (includes meter) .....	125 gpm (473 lpm)
Backwash @ 25 psi drop.....	125 gpm (473 lpm)
Cv Service.....	32.3
Cv Backwash.....	25.0

## OPERATING PRESSURES

Minimum/Maximum .....	20 - 125 psi
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## OPERATING TEMPERATURES

Minimum/Maximum .....	40° - 110° F
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## METER

Accuracy .....	± 5%
Flow Rate Range .....	1.5 - 125 gpm (5.7 - 473 lpm)
Volume Range .....	10 - 999,000 gallons (38 - 3,796.2 liters x1000)
Totalizer .....	1000 - 999,999,000 gallons

## DIMENSIONS & WEIGHT

Distributor Pilot	
Valve Bodies with Female 2" NPT Inlet & Outlet.....	2.375" OD (2" NPS)
Valve Bodies with Female BSPT Inlet & Outlet .....	63mm OD
Drain Line .....	2" FPT or 2.5" Victaulic
Brine Line .....	1" MPT or 3/4" x 1" solvent weld
Adapters Available .....	1/2" or 5/8" OD Poly Tube
Mounting Base.....	4" - 8 UN, 6" Flange or Side Mount
Height From Top Of Tank.....	11" (280mm)
Shipping Weight With Meter .....	50 lbs (22.7 Kg)

## ELECTRICAL SPECIFICATIONS

### AC Adapter

	<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

## TANK APPLICATIONS

Water Softener .....	18" - 63" Diameter
Water Filter (2) .....	18" - 48" 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