

# Clack®

# WS2H

**WATER  
SPECIALIST  
CONTROL  
VALVE**



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

- **Control Valve Flow Rates: Service 125 gpm (473 lpm) (28.4 m<sup>3</sup>/h)  
Backwash 125 gpm (473 lpm) (28.4 m<sup>3</sup>/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**
- **Built-in Internal Flow Meter**
- **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 2" H Control Specifications

Inlet/Outlet (1) .....	2" 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 (includes meter) .....	125 gpm (473 lpm) (28.4 m <sup>3</sup> /h)
Backwash @ 25 psi/1.7 bar drop .....	125 gpm (473 lpm) (28.4 m <sup>3</sup> /h)
Cv Service .....	32.3
Cv Backwash .....	25.0

## OPERATING PRESSURES

Minimum/Maximum .....	20 - 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 SPECIFICATIONS

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 .....	1,000 - 999,999,000 gallons (3,786 - 3,785,407.9 liters x1000)

## DIMENSIONS & WEIGHT

Distributor Pilot	
Valve Bodies with 2" Female NPT Inlet & Outlet .....	2.375" OD (2" NPS)
Valve Bodies with 2" Female BSPT Inlet & Outlet .....	63mm OD
Drain Line Connection .....	2" Female NPT/BSPT/2.5" Groove Lock
Brine Line Adapters Included .....	1" Male NPT elbow and ¾" x 1" solvent weld elbow
Optional Adapters .....	½" or ⅝" OD Poly Tube Compression
Mounting Base .....	4" - 8 UN, 6" Flange or Side Mount
Height From Top Of Tank with 4" - 8 UN QC Base .....	11.5" (292mm)
Height From Top Of Tank with 6" Flange QC Base .....	11.6" (294.6mm)
Shipping Weight With Internal Meter .....	50 lbs (22.7 Kg)

## ELECTRICAL SPECIFICATIONS

### POWER SUPPLY

	<u>U.S.</u>	<u>International</u>
Supply Voltage .....	120VAC .....	240VAC
Supply Frequency .....	60 Hz .....	60 Hz
Output Voltage .....	24VDC .....	24VDC
Output Current .....	800 mA .....	800 mA

## 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/407 lpm per m<sup>2</sup> of bed area