

Clack®

WS2H

WATER SPECIALIST CONTROL VALVE



- **2" top mount or side mount control valve suited for commercial and industrial applications**
- **Lead free brass valve body**
- **Built-in Internal Flow Meter standard with all valves**
- **Service flow rate 125 gpm (473 lpm) (28.4 m³/h), Backwash flow rate 125 gpm (473 lpm) (28.4 m³/h)**
- **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**
- **Pre or Post treated water regenerant refill**
- **Days override feature; 1-28 days available**
- **20-volt output AC adapter provides safe and easy installation**
- **Reliable and proven DC drive**
- **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**

Water Specialist 2" H Control Specifications

Inlet/Outlet (1)	2" Female NPT or BSPT/ 2.5" Groove Lock
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 ³ /h)
Backwash @ 25 psi/1.7 bar drop	125 gpm (473 lpm) (28.4 m ³ /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

AC Adapter

	<u>U.S.</u>	<u>International</u>
Supply Voltage	120V AC.....	230V AC
Supply Frequency	60 Hz.....	50Hz
Output Voltage	20V AC.....	20V 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/407 lpm per m² of bed area