

# WS2H

## **WATER SPECIALIST CONTROL VALVE**



Certified to NSF/ANSI 44, 61 and 372.



- 2" top mount or side mount control valve suited for commercial and industrial applications
- Epoxy coated 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

# 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 m³/h)
Backwash @ 25 psi/1.7 bar drop .....	125 gpm (473 lpm) (28.4 m³/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

**LENNTECH**

info@lenntech.com Tel. +31-152-610-900  
www.lenntech.com Fax. +31-152-616-289