

WS2H

**WATER
SPECIALIST
CONTROL
VALVE**



NSF

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 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 3/4" x 1" solvent weld elbow
Optional Adapters	1/2" or 5/8" 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.S.	International
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:

	Range of values
Cycle	1 - 95 minutes
Backwash.....	1 - 180 minutes
Brine (draw).....	1 - 95 minutes
Slow Rinse	1 - 95 minutes
Fast Rinse	0.1 - 99 minutes
Refill	1 - 480 minutes
Hold (service)	

Options: Backwash Filter

Compatible with the following typical concentrations of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

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