



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 m3/h)
Backwash 125 gpm (473 lpm) (28.4 m3/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 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)
OPERATING TEMPERATURES	
Minimum/Maximum	40° - 110° F (4o - 43o C)
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)
POWER SUPPLY	
	<u>U.S.</u> <u>International</u>
Supply Voltage	120VAC240VAC
Supply Frequency	60 Hz60 Hz
Output Voltage	24VDC24VDC
Output Current	800 mA800 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 m2 of bed area