

Clack®

WS2HF

**WATER
SPECIALIST
CONTROL
VALVE**



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

- **Control Valve Flow Rates: Service 165 gpm (624 lpm) (37 m³/h)
Backwash 175 gpm (662 lpm) (39 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, Auxiliary Input, Modbus Initiated**
- **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: Single, Alternating, Progressive Flow, Series**
- **Day override feature; 1-28 days or 7 day**
- **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**
- **On-Site circuit board software update capability**
- **Reliable and proven DC drive**
- **One piece expanding seal spacer stack assembly**

Water Specialist 2" HF 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)	165 gpm (624 lpm) (37 m ³ /h)
Backwash @ 25 psi/1.7 bar drop	175 gpm (662 lpm) (39 m ³ /h)
Cv Service.....	42.6
Cv Backwash.....	35

OPERATING PRESSURES

Minimum/Maximum	20 - 125 psi (1.4 - 8.6 bar)
-----------------------	------------------------------

OPERATING TEMPERATURES

Minimum/Maximum	40° - 110° F (4° - 43° C)
-----------------------	---------------------------

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
Brine Line Adapters Included.....	1" Male NPT elbow and 3/4" x 1" solvent weld elbow
Optional Adapters.....	1/2" 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.....	11.3" (287.02mm)
Height From Top Of Tank with 6" Flange QC Base	11.4" (289.56mm)
Shipping Weight.....	48 lbs (21.8 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" - 54" 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