

WS2
EI

WATER SPECIALIST 2" EI **CONTROL VALVE**



Optional 2" Meter

- **2" Top mount control valve suited for commercial/industrial applications**
- **Lead free brass construction**
- **Economical stainless steel optional meter assembly**
- **Service flow rate of 435 lpm, backwash 303 lpm**
- **Solid state microprocessor with easy access front panel settings**
- **Front panel display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (Totalizer)**
- **Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential**
- **Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency**
- **Fully adjustable cycle times with 6-cycle control delivers controlled backwash, downflow brining/slow rinse, second backwash, fast rinse, refill and downflow service**
- **Coin Cell Lithium battery back-up with an 8 hour carry over**
- **12-volt output AC Adapter provides safe and easy installation**
- **Treated water regenerant refill**
- **24 Hour Clock**
- **Reliable and proven DC drive**

Water Specialist 2" EI Control Specifications

Inlet/Outlet (1)	2" FPT
Cycles	up to 6
Valve Material	Lead free brass
Regeneration	downflow

FLOW RATES

Service @15 psi drop (includes meter).....	435 lpm (26 m ³ /h) (115 gpm)
Backwash @ 25 psi drop	303 lpm (18 m ³ /h) (80 gpm)
Cv Service	29.7
Cv Backwash	16

OPERATING PRESSURES

Minimum/Maximum	1.4 – 8.6 bar (20 psi – 125 psi)
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OPERATING TEMPERATURES

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

Accuracy	± 5%
Flow Rate Range.....	5.7 – 435 lpm (1.5 – 115 gpm)
Volume Range	1 – 5,700 m ³
Totalizer	0.001 – 4,294,000 m ³

DIMENSIONS & WEIGHT

Distributor Pilot	
Valve bodies with female 2" NPT Inlet & Outlet	1.90" OD (1.5" NPS)
Valve bodies with female 2" BSPT Inlet & Outlet.....	50mm OD
Drain Line	1.5" FPT, 3/4" or 1" (optional)
Brine Line	1" MPT or 3/4" x 1" solvent weld
Adapters Available	1/2" or 5/8" OD Poly Tube
Mounting Base.....	4" - 8 UN
Height From Top Of Tank.....	8.5" (216 mm)
Shipping Weight With Meter	30 lbs. (14 Kg)

ELECTRICAL SPECIFICATIONS

	AC Adapter	
	U.S.	International
Supply Voltage	120V AC.....	230V AC
Supply Frequency	60 Hz.....	50 Hz
Output Voltage	12V AC.....	12V AC
Output Current	500 mA.....	500 mA

TANK APPLICATIONS

Water Softener	18" – 48" diameter
Water Filter (2)	18" – 36" diameter

CYCLES OF OPERATION

Cycle	Range of times minutes
1. Backwash 1 st (upflow)	1 - 20 or off
2. Regenerate Draw/Slow Rinse (downflow)	1 - 99 or off
3. Backwash 2 nd (upflow).....	1 - 20 or off
4. Fast Rinse (downflow)	1 - 20 or off
5. Regenerant Refill (in service with treated water).....	0.1 - 99.9 or off
6. Service (downflow)	

Options: Backwash Filter, Weather Cover

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