

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)
OPERATING TEMPERATURES	
Minimum/Maximum	4° – 43° C (40° – 110° F)
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, ¾" or 1" (optional)
Brine Line	1" MPT or ¾" x 1" solvent weld
Adapters Available	½" 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>U.S.</u> <u>International</u>
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