

WS₂EE

WATER SPECIALIST CONTROL VALVE



- 2" Top mount control valve suited for commercial/industrial applications
- Lead free brass construction
- Economical stainless steel optional meter assembly
- Service flow rate of 115 gpm, backwash 80 gpm
- 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
- Post treated water regenerant refill
- 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
- Patented quiet drain line flow control assembly U.S. Patent 6,776,901



Optional 2" Meter

DWC
DUFF WATER CONDITIONING
Products for Quality Water

est. 1947

DUFF co.



201 E Lafayette St
Norristown, PA 19401



610-275-4453



duffco.com



info@duffco.com

WATER SPECIALIST 2" EE CONTROL SPECIFICATIONS

| | |
|------------------------|-----------------|
| Inlet/Outlet (1) | 2" Female NPT |
| Cycles | up to 6 |
| Valve Material | Lead free brass |
| Regeneration | Downflow |

CONTROL VALVE FLOW RATES

| | |
|--|---------|
| Service @15 psi drop (includes meter)..... | 115 gpm |
| Backwash @ 25 psi drop | 80 gpm |
| Cv Service | 29.7 |
| Cv Backwash | 16.0 |

OPERATING PRESSURES

| | |
|-----------------------|------------------|
| Minimum/Maximum | 20 psi – 125 psi |
|-----------------------|------------------|

OPERATING TEMPERATURES

| | |
|-----------------------|--------------|
| Minimum/Maximum | 40° – 110° F |
|-----------------------|--------------|

METER SPECIFICATIONS

| | |
|----------------------|------------------------|
| Accuracy | ± 5% |
| Flow Rate Range..... | 1.5 – 150 gpm |
| Gallon Range..... | 20 – 1,500,000 gallons |
| Totalizer | 1 – 9,999,000 gallons |

DIMENSIONS & WEIGHT

| | |
|--|---|
| Distributor Pilot | |
| Valve bodies with 2" Female NPT Inlet & Outlet | 1.90" OD (1.5" NPS) |
| Drain Line Connection (drain line adapters not included) | 1.5" Female NPT |
| Brine Line Adapters Included..... | 1" Male NPT elbow, 3/4" x 1" solvent weld elbow and 1/2" OD Poly Tube Compression |
| Mounting Base | 4" - 8 UN |
| Height From Top Of Tank..... | 8.5" |
| Shipping Weight With Meter | 29 lbs. |

ELECTRICAL SPECIFICATIONS

| | AC Adapter | |
|------------------------|-------------------|----------------------|
| | <u>U.S.</u> | <u>International</u> |
| 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 | 12" – 48" diameter |
| Water Filter (2)..... | 12" – 36" diameter |

CYCLES OF OPERATION

| Cycle | <u>Softener</u> | <u>Filter</u> |
|---|--------------------------|---------------|
| | Range of time in minutes | |
| 1. Backwash 1 st (upflow) | 1-95..... | Backwash 1-95 |
| 2. Regenerate Draw/Slow Rinse (downflow) | 1-180 | |
| 3. Backwash 2 nd (upflow)..... | 1-95 | |
| 4. Fast Rinse (downflow) | 1-95..... | Rinse 1-95 |
| 5. Regenerant Refill (in service with treated water)..... | 0.1-99.0 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