

CLACK WS1EE TWIN VALVE

WS1EE TWIN ALTERNATING CONTROL VALVE

WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI 44, 61 and 372.

- Service flow 28 gpm, backwash flow 15 gpm with meter and bypass installed
- 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), and Tank in Service Indication
- 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
- 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 a 8 hour carry over
- Backwash and brining ability to 21" diameter tanks
- Downflow or upflow brining regeneration
- Level VI 15-volt output DC power supply provides safe and easy installation
- Treated/Soft water post fill and regeneration cycles
- 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
- Reliable and proven DC drives

DWC
DUFF WATER CONDITIONING
Products for Quality Water

est. 1947

DUFFco.



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WATER SPECIALIST 1" EE CONTROL SPECIFICATIONS

| | |
|----------------------------|-------------------------|
| Inlet/Outlet Fittings..... | ¾" to 1.5" NPS |
| Cycles | up to 6 |
| Valve Material | Noryl (1) or equivalent |
| Regeneration | downflow |

FLOW RATES

| | |
|--|--------|
| Service @15 psi drop (includes bypass and meter) | 28 gpm |
| Backwash @ 25 psi drop (includes bypass) | 15 gpm |
| Cv Service | 7.28 |
| Cv Backwash | 2.96 |

OPERATING PRESSURES

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

OPERATING TEMPERATURES

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

METER

| | |
|----------------------|--------------------------|
| Accuracy | ± 5% |
| Flow Rate Range..... | 0.25 – 30 gpm |
| Gallon Range..... | 20 – 1,500,000 gallons |
| Totalizer | 1000 - 9,999,000 gallons |

DIMENSIONS & WEIGHT

| | |
|------------------------------|-----------------------------------|
| Distributor Pilot | 1.050" OD Pipe (¾" NPS) |
| Drain Line | ¾" or 1" Male NPT |
| Brine Line | ¾" or ½" OD Poly Tube Compression |
| Mounting Base..... | 2 ½" - 8 NPSM |
| Height From Top Of Tank..... | 7 ¾" |
| Weight | 16 lbs. |

ELECTRICAL SPECIFICATIONS

POWER SUPPLY

| | <u>U.S.</u> | <u>International</u> |
|------------------------|------------------|----------------------|
| Supply Voltage | 100VAC to 120VAC | 200VAC to 240VAC |
| Supply Frequency | 50/60 Hz | 50/60 Hz |
| Output Voltage | 15VDC | 15VDC |
| Output Current | 500 mA | 500 mA |

TANK APPLICATIONS

| | |
|------------------------|-------------------|
| Water Softener | 6" – 21" diameter |
| Water Filter (2) | 6" – 16" diameter |

CYCLES OF OPERATION (Softener / Filter Downflow)

| Cycle | <u>Softener</u> | <u>Filter</u> |
|-------------------------------------|--------------------------|----------------|
| | Range of time in minutes | |
| 1. Backwash 1 st | 1-120 | Backwash 1-120 |
| 2. Regenerate Draw/Slow Rinse | 1-180 | |
| 3. Backwash 2 nd | 1-120 | |
| 4. Fast Rinse | 1-120 | Rinse 1-120 |
| 5. Regenerant Refill | 0.1-99.0 or off | |
| 6. Service (downflow) | | |

Options: Backwash Filter, Bypass, Weather Cover

Compatible with the following typical concentration of regenerants or chemicals: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, chlorine and chloramines

1. Noryl is a trademark of Sabic Innovative Plastics IP B.V. Company
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area