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DUFF WATER CONDITIONING
Products for Quality Water

WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI 61 and 372.



- 3" top mount or side mount control valve suited for commercial and industrial applications
- Epoxy coated lead free brass valve body
- Economical stainless steel optional meter assembly
- Service flow rate 250 gpm (946 lpm) (56.8 m³/h), Backwash flow rate 220 gpm (833 lpm) (50.0 m³/h)
- Solid state microprocessor with easy access front removable POD
- Front panel display for Time of Day, Current Flow Rate, Totalizer and Volume/Days until Regeneration
- Four methods to initiate the down flow regeneration; meter delayed, meter immediate, time clock delayed, aor pressure differential
- Fully programmable regeneration cycle sequences (maximum 9)
- Fully programmable regeneration cycle times
- Pre or Post treated water regenerant refill
- Days override feature; 1-28 days available
- Capacitor back-up with up to 24 hour carry over
- Level VI 18-volt output DC power supply provides safe and easy installation
- 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



Optional 3" Meter



Side Mount Adapter



WATER SPECIALIST 3” CONTROL SPECIFICATIONS

| | |
|---|--|
| Inlet/Outlet (1) | 3” 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..... | 250 gpm (946 lpm) (56.8 m ³ /h) |
| Backwash @ 25 psi/1.7 bar drop..... | 220 gpm (833 lpm) (50.0 m ³ /h) |
| Cv Service..... | 64.6 |
| Cv Backwash..... | 44.0 |
| OPERATING PRESSURES | |
| Minimum/Maximum | 20 - 125 psi (1.4 - 8.6 bar) |
| OPERATING TEMPERATURES | |
| Minimum/Maximum | 40° - 110° F (4° - 43° C) |
| METER SPECIFICATIONS | |
| Accuracy..... | ± 5% |
| Flow Rate Range | 3.5 - 350 gpm (13.3 - 1325 lpm) |
| Volume Range | 10 - 999,000 gallons (38 - 3,796.2 liters x1000) |
| Totalizer | 1,000 - 999,999,000 gallons (3,786 - 3,785,407.9 liters x1000) |
| DIMENSIONS & WEIGHT | |
| Distributor Pilot | |
| Valve Bodies with 3" Female NPT Inlet & Outlet..... | 3.5” OD (3" NPS) |
| Valve Bodies with 3" Female BSPT Inlet & Outlet | 90mm OD |
| Drain Line Connection | 3” Female NPT/BSPT "No Groove Lock" |
| Brine Line Adapters Included..... | 1” Male NPT elbow and ¾” x 1” solvent weld elbow |
| Mounting Base..... | 6” Flange or Side Mount |
| Height From Top Of Tank with 6" Flange QC Base | 12.5” (318mm) |
| Shipping Weight Without Optional Meter | 57 lbs (25.9 Kg) |
| ELECTRICAL SPECIFICATIONS | |
| POWER SUPPLY | |
| | <u>U.S.</u> <u>International</u> |
| Supply Voltage | 120VAC 240VAC |
| Supply Frequency..... | 60 Hz..... 60 Hz |
| Output Voltage | 18VDC..... 18VDC |
| Output Current | 750 mA..... 750 mA |
| TANK APPLICATIONS | |
| Water Softener | 18” - 63” Diameter with standard injectors, to 96” with Brine Pump |
| Water Filter (2)..... | 18” - 63” 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