





WS2SD WS2SP

WATER SPECIALIST CONTROL VALVE



Certified to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372.



| SD | SP | SP RECHARGING OPTIONS | |
|---|---|--|---|
|  |  |  |  |
| D Cell Battery Pack | AA Rechargeable Battery Pack | DC Power Supply | Solar Panel |

- Solar panel or DC power supply recharges 6 "AA" re-chargeable Nickel Metal Hydride Batteries
- Can be programmed for automatic variable reserve, based on water usage history for high efficiency
- 2" Top mount control valve suited for commercial/industrial applications
- Epoxy coated lead free brass valve body
- 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
- Downflow regeneration/Upflow regeneration
- Coin Cell Lithium battery back-up with a 8 hour carry over of time of day
- Level VI 15-volt output DC power supply provides safe and easy installation
- Post treated water regenerant refill
- Reliable and proven DC drive
- One piece expanding seal spacer stack assembly
- Linearly reciprocating piston operation



Water Specialist 2" SD/SP 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 | 1.5" Female NPT |
| Brine Line Adapters Included..... | 1" Male NPT elbow, ¾" x 1" solvent weld elbow and ½" OD Poly Tube Compression |
| Mounting Base | 4" - 8 UN |
| Height From Top Of Tank..... | 8.5" |
| Shipping Weight With Meter | 29 lb |

BATTERY SPECIFICATIONS - 2 OPTIONS FOR OPERATION

- 6 AA nickel metal hydride batteries rechargeable for SP model
- 6 "D" cell alkaline batteries (**disposable when discharged**) for SD model - "D" batteries not included

CHARGING SPECIFICATIONS FOR SP MODEL- 2 OPTIONS FOR OPERATION

- Amorphous silicon solar panels capable of three tilt angles
- DC power supply with 15VDC output 500mA

TANK APPLICATIONS

| | |
|-----------------------|--------------------|
| Water Softener | 12" – 48" diameter |
| Water Filter (2)..... | 12" – 36" diameter |

CYCLES OF OPERATION

| Cycle | Softener | Filter |
|---|--------------------------|---------------|
| | Range of time in minutes | |
| 1. Backwash 1 st (upflow) | 1-95..... | Backwash 1-95 |
| 2. Regenerate Draw/Slow Rinse (downflow or upflow)..... | 1-180 | |
| 3. Backwash 2 nd (upflow)..... | 1-95..... | Rinse 1-95 |
| 4. Fast Rinse (downflow) | 1-95 | |
| 5. Regenerant Refill (in service with treated water)..... | 0.1-99.0 | |
| 6. Service (downflow) | | |

When replacing batteries follow state or local regulations for recycling and disposal.

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. See Distributor Pilot
2. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area