**Control Valves, Fittings and Accessories**

**WS1EI TWIN ALTERNATING CONTROL VALVE**
- 106 lpm • 6.36 m³/h • 28 gpm

**WS1CI TWIN ALTERNATING CONTROL VALVE**
- 106 lpm • 6.36 m³/h • 28 gpm

**WS2CI/QC**
- 473 lpm • 28.4 m³/h
- 125 gpm

**WS2EI/QC**
- 473 lpm • 28.4 m³/h
- 125 gpm

**WS2H**
- 473 lpm • 28.4 m³/h
- 125 gpm

**WS2CI**
- 435 lpm • 26.1 m³/h
- 115 gpm

**WS2EI**
- 435 lpm • 26.1 m³/h
- 115 gpm

**WS1.25EI**
- 129 lpm • 7.7 m³/h
- 34 gpm

**WS1.25TC**
- 129 lpm • 7.7 m³/h
- 34 gpm

**WS1**
- 102 lpm • 6.1 m³/h
- 27 gpm

*valves shown with optional accessories*
# 1” & 1.25” Water Specialist Valve Specifications

## Specifications

### Service @ 1 bar/15 psi drop
- **WS1**: 102 lpm, 6.1 m³/h (includes meter and bypass)
- **WS1TT**: 106 lpm, 6.36 m³/h (includes meter and bypass)
- **WS1.25**: 129 lpm, 7.7 m³/h (includes meter and bypass)

### Backwash @ 1.7 bar/25 psi drop
- **WS1**: 102 lpm, 6.1 m³/h (includes bypass)
- **WS1TT**: 57 lpm, 3.4 m³/h (includes bypass)
- **WS1.25**: 121 lpm, 7.3 m³/h (includes bypass)

### Tank Applications:
- **Softener Filter (1)**: 6” - 21” diameter
- **WS1**: 102 lpm, 6.1 m³/h (includes meter and bypass)
- **WS1TT**: 57 lpm, 3.4 m³/h (includes bypass)
- **WS1.25**: 129 lpm, 7.7 m³/h (includes meter and bypass)

### Inlet/Outlet Fitting Connections
- **WS1**: ¾” - 1.25” Male BSPT
- **WS1TT**: ¼” - 1.25” Male BSPT
- **WS1.25**: ¾” - 1.25” Male BSPT

### Valve Material
- **WS1**: Fiber Reinforced Composite
- **WS1TT**: Fiber Reinforced Composite
- **WS1.25**: Fiber Reinforced Composite

### Cycles
- **WS1**: Up to 6 Downflow/Upflow
- **WS1TT**: Up to 6 Downflow/Upflow
- **WS1.25**: Up to 6 Downflow/Upflow

### Operating Pressures
- **WS1**: 1.4 - 8.6 bar
- **WS1TT**: 1.4 - 8.6 bar
- **WS1.25**: 1.4 - 8.6 bar

### Operating Temperatures
- **WS1**: 4° - 43° C
- **WS1TT**: 4° - 43° C
- **WS1.25**: 4° - 43° C

### Meter:
- **Flow Rate Range**: .95 - 102 lpm
- **WS1TT**: .95 - 102 lpm
- **WS1.25**: .95 - 129 lpm

### Distributor Pilot
- **WS1**: 1.050” O.D. Pipe
- **WS1TT**: 1.050” O.D. Pipe
- **WS1.25**: 1.32” O.D. Pipe, 32mm O.D.

### Drain Line Connection
- **WS1**: ¾” Male NPT Standard
- **WS1TT**: ¾” Male NPT Standard
- **WS1.25**: ¾” Male NPT Standard

### Brine Line Connection
- **WS1**: ¾” Liquifit Fitting
- **WS1TT**: ¾” Liquifit Fitting
- **WS1.25**: ¾” Liquifit Fitting

### Mounting Base Options
- **WS1**: 2½” - 8 NPSM
- **WS1TT**: 2½” - 8 NPSM
- **WS1.25**: 2½” - 8 NPSM

### Height From Top of Tank
- **WS1**: 187mm
- **WS1TT**: 187mm
- **WS1.25**: 187mm

### Shipping Weight
- **WS1**: 2 kg
- **WS1TT**: 7.25 kg
- **WS1.25**: 2 kg

---

1. Filter tank size calculated @ 10 gpm of backwash per square foot of bed area
2. Valves shown with optional bypass.
3. *Optional mixing valve available.*
### 1.5” & 2” Water Specialist Valve Specifications

<table>
<thead>
<tr>
<th></th>
<th>WS1.5P</th>
<th>WS1.5</th>
<th>WS2</th>
<th>WS2QC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CI, EI, SQ</td>
<td>CI, EI, SQ</td>
<td>CI, EI, SQ</td>
<td>CI, EI, SQ</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>227 lpm (13.6 m³/h) (includes meter)</td>
<td>265 lpm (15.9 m³/h) (includes meter)</td>
<td>435 lpm (26.1 m³/h) (includes meter)</td>
<td>473 lpm (28.4 m³/h) (includes meter)</td>
</tr>
<tr>
<td></td>
<td>163 lpm (9.8 m³/h)</td>
<td>197 lpm (11.8 m³/h)</td>
<td>303 lpm (18.2 m³/h)</td>
<td>322 lpm (19.3 m³/h)</td>
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<tr>
<td>Diameter</td>
<td>12” - 24” diameter</td>
<td>12” - 24” diameter</td>
<td>12” - 48” diameter</td>
<td>12” - 48” diameter</td>
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<td></td>
<td>12” - 24” diameter</td>
<td>12” - 30” diameter</td>
<td>12” - 36” diameter</td>
<td>12” - 36” diameter</td>
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<tr>
<td>QC to 1.5” BSPT or NPT</td>
<td>1.5” Female BSPT or NPT</td>
<td>1.5” Female BSPT or NPT</td>
<td>1.5” Female BSPT or NPT</td>
<td>1.5” Female BSPT or NPT</td>
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<tr>
<td>Fiber Reinforced Composite</td>
<td>Lead Free Brass</td>
<td>Lead Free Brass</td>
<td>Lead Free Brass</td>
<td>Lead Free Brass</td>
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<tr>
<td>Up to 6 Downflow/Upflow</td>
<td>Up to 9 Downflow/Upflow</td>
<td>Up to 9 Downflow/Upflow</td>
<td>Up to 9 Downflow/Upflow</td>
<td>Up to 9 Downflow/Upflow</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>1.4 - 8.6 bar 4° - 43° C</td>
<td>1.4 - 8.6 bar 4° - 43° C</td>
<td>1.4 - 8.6 bar 4° - 43° C</td>
<td>1.4 - 8.6 bar 4° - 43° C</td>
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<tr>
<td>50 mm O.D. or 1.90” O.D. Pipe</td>
<td>50 mm O.D. or 1.90” O.D. Pipe</td>
<td>50 mm O.D. or 1.90” O.D. Pipe</td>
<td>50 mm O.D. or 1.90” O.D. Pipe</td>
<td>50 mm O.D. or 1.90” O.D. Pipe</td>
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<tr>
<td>QC to 1.25” NPT Elbow QC to 1.5” NPT Straight</td>
<td>1.25” Female NPT with ¾” Male NPT Standard 1” Male NPT Optional</td>
<td>1.5” Female NPT</td>
<td>1.5” Female NPT</td>
<td>1.5” Female NPT</td>
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<tr>
<td>¾” Female NPT ½” O.D. Poly Tube Compression</td>
<td>¾” Female NPT ½” O.D. Poly Tube Compression</td>
<td>1” Male NPT and BSPT elbow ¾” x 1” Solvent elbow ½” O.D. Poly Tube Compression</td>
<td>1” Male NPT and BSPT elbow ¾” x 1” Solvent elbow ½” O.D. Poly Tube Compression</td>
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<tr>
<td>4” - 8 UN</td>
<td>4” - 8 UN</td>
<td>4” - 8 UN</td>
<td>4” - 8 UN</td>
<td>Quick Disconnect 4” - 8 UN 6” Flange Side Mount</td>
</tr>
<tr>
<td>Height From Top of Tank</td>
<td>187mm</td>
<td>187mm</td>
<td>187mm</td>
<td>187mm with 4” - 8 UN QC Base is 284.5mm with 6” Flange QC Base is 287mm</td>
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<tr>
<td>Weight</td>
<td>4.1 kg</td>
<td>9.5 kg</td>
<td>13 kg</td>
<td>14 kg</td>
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# 2” & 3” Water Specialist Valve Specifications

## Specifications

<table>
<thead>
<tr>
<th></th>
<th>WS2H</th>
<th>WS3</th>
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<tbody>
<tr>
<td><strong>Service @ 1 bar/15 psi drop</strong></td>
<td>473 lpm, 28.4 m³/h (includes meter)</td>
<td>946 lpm, 56.8 m³/h (includes meter)</td>
</tr>
<tr>
<td><strong>Backwash @ 1.7 bar/25 psi drop</strong></td>
<td>473 lpm, 28.4 m³/h</td>
<td>833 gpm, 50.0 m³/h</td>
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<tr>
<td><strong>Tank Applications:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Softener Filter (1)</strong></td>
<td>18” - 63” diameter</td>
<td>18” - 96” diameter (1)</td>
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<td>18” - 48” diameter</td>
<td>18” - 63” diameter</td>
</tr>
<tr>
<td><strong>Inlet/Outlet Fitting Connections</strong></td>
<td>2” Female BSPT or NPT</td>
<td>3” Female BSPT or NPT</td>
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<tr>
<td><strong>Valve Material</strong></td>
<td>Lead Free Brass</td>
<td>Lead Free Brass</td>
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<tr>
<td><strong>Cycles</strong></td>
<td>Up to 9</td>
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<td><strong>Regeneration</strong></td>
<td>Downflow</td>
<td>Downflow</td>
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<tr>
<td><strong>Operating Pressures</strong></td>
<td>1.4 - 8.6 bar</td>
<td>1.4 - 8.6 bar</td>
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<tr>
<td><strong>Operating Temperatures</strong></td>
<td>4° - 43° C</td>
<td>4° - 43° C</td>
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<tr>
<td><strong>Meter:</strong></td>
<td></td>
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<tr>
<td><strong>Flow Rate Range</strong></td>
<td>5.7 - 473 lpm</td>
<td>13 - 1,325 lpm</td>
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<tr>
<td><strong>Distributor Pilot</strong></td>
<td>63mm O.D. Pipe or 2.375” O.D. Pipe</td>
<td>90mm or 3.5” O.D. Pipe</td>
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<tr>
<td><strong>Drain Line Connection</strong></td>
<td>2” Female BSPT or NPT</td>
<td>3” Female BSPT or NPT</td>
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<tr>
<td><strong>Brine Line Connection</strong></td>
<td>1” Male NPT and BSPT elbow 3/4” x 1” Solvent elbow</td>
<td>1” Male NPT and BSPT elbow 3/4” x 1” Solvent elbow</td>
</tr>
<tr>
<td><strong>Mounting Base Options</strong></td>
<td>Quick Disconnect 4” - 8 UN 6” Flange Side Mount</td>
<td>Quick Disconnect 6” Flange Side Mount</td>
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<tr>
<td><strong>Height From Top of Tank</strong></td>
<td>with 4” - 8 UN QC Base is 292mm with 6” Flange QC Base is 294.6mm</td>
<td>with 6” Flange QC Base is 318mm</td>
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<tr>
<td><strong>Shipping Weight with Meter</strong></td>
<td>22.7 kg</td>
<td>25.9 kg</td>
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1. 18” - 63” diameter with standard injectors, to 96” with Brine Pump
BATTERY SPECIFICATIONS
6 AA nickel metal hydride batteries rechargeable for SQ model
Note: When disposing of batteries follow local and state regulations.

SQ CHARGING SPECIFICATIONS
2 OPTIONS FOR OPERATION
• Amorphous silicon solar panels capable of three tilt angles
• DC power supply with 15VDC output 500mA
## CLACK CONTROLLER SPECIFICATIONS

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>WS1</th>
<th>TC</th>
<th>CI</th>
<th>EI</th>
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<td>Comm. Cable Port</td>
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<td>Cycle Codes</td>
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<td>P0 - P9</td>
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<td>Cycle Times Adjustable</td>
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<td>DP Input</td>
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<td>&quot;Relay Driver or Relay Output&quot;</td>
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<td>1 - Relay Driver</td>
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<td>Remote Communications</td>
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## CLACK CONTROLLER SPECIFICATIONS

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<thead>
<tr>
<th>SQ</th>
<th>WS2H &amp; WS3</th>
<th>System Controller (SC)</th>
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<tr>
<td></td>
<td>Pod</td>
<td>Main Board</td>
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<tr>
<td>WS1, WS1.25, WS1.5, WS2, WS2QC, WS1TT</td>
<td>WS2H, WS3</td>
<td>WS1, WS1.25, WS1.5P, WS1.5, WS2, WS2QC</td>
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<td>50 - 5,000,000</td>
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<td>1 - Relay Driver</td>
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<td>Yes</td>
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<td>No</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
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| 6 "AA" Rechargeable Nickel Metal Hydride Batteries | 240VAC | 200-240VAC |
| 50/60Hz | 60Hz | 50/60Hz |
| 15VDC | 18VDC | 15VDC |
| 500 mA | 750 mA | 0.5A |

| Yes | N/A | Yes | Yes | Water Monitor |
| No | 2 Valves | 2 - 4 Valves | 2 - 6 Valves | |
| 2 Valves | 2 Valves | 2 - 4 Valves | 2 - 6 Valves | |
| No | 2 Valves | 2 - 4 Valves | 2 - 6 Valves | |
Inline Flow Meters

1.5" Plastic Meter
Order No. V3045 or V3045-15
Order No. V3045QC or V3045QC-15

1.5" Stainless Steel Meter
V3040 (28") • V3040-15 (15") • NPT
V3040BSPT (28") • V3040BSPT-15 (15") • BSPT

2.0" Stainless Steel Meter
V3094 (28") • V3094-15 (15") • NPT
V3094BSPT (28") • V3094BSPT-15 (15") • BSPT

3.0" Stainless Steel Meter
V3095 (48") • V3095-15 (15") • NPT
V3095BSPT (48") • V3095BSPT-15 (15") • BSPT

WS15/2/2H Meter Comm Asy 28"
Order No. V3003-02

WS3 Meter Comm Asy 4'
Order No. V4039

WS Remote Meter Cord 15'
Order No. V3221
### Drain Line Flow Controls

**WS1 3/4” DRN ELB&RETAIN WO/SIL ASY**
- Order No. V3962
  - 0.7 to 10.0 GPM
  - 1 - 3/4” Flow Washer

**WS1 3/4” DRN ELBOW&RETAIN W/SIL ASY**
- Order No. V4057
  - 0.7 to 10.0 GPM
  - 1 - 3/4” Flow Washer

**WS1 1” DRN ELB&RETAIN**
- Order No. V4429
  - 0.7 to 10.0 GPM
  - 1 - 3/4” Flow Washer

**WS1 FTG DRAIN 1 STRT WO/SIL**
- Order No. V3008-04
  - 9.0 to 25.0 GPM
  - 1 - 1” Flow Washer

**WS1 FTG DRAIN 1 STRAIGHT W/SIL**
- Order No. V3008-02
  - 9.0 to 25.0 GPM
  - 1 - 1” Flow Washer

**WS2 DRN ELB 3/4 MALENPT NO SIL**
- Order No. V3158-04
  - 0.7 to 10.0 GPM
  - 1 - 3/4” Flow Washer

**WS2 DRN FTG 1 MALE NPT WO/SIL**
- Order No. V3008-05
  - 9.0 to 25.0 GPM
  - 1 - 1” Flow Washer

**1.25” DLFC**
- Order No. V3079 + NPT | V3079BSPT + BSPT
  - 9.0 to 85.0 GPM
  - Up to 6 - 3/4” & 1 - 1” Flow Washers

**1.5” DLFC**
- Order No. V3080 + NPT | V3080BSPT + BSPT
  - 9.0 to 85 GPM
  - Up to 6 - 3/4” & 1 - 1” Flow Washers

**2” DLFC**
- Order No. V3051 + NPT | V3051BSPT + BSPT
  - 7.0 to 150 GPM
  - Up to 5 - 3/4” & 4 - 1” Flow Washers

**3” DLFC**
- Order No. V3764 + NPT | V3764BSPT + BSPT
  - 9.0 to 225 GPM
  - Up to 9 - 1” Flow Washers

<table>
<thead>
<tr>
<th>3/4” Flow Washers</th>
</tr>
</thead>
<tbody>
<tr>
<td>V3162-007 WS1 DLFC 0.7 gpm</td>
</tr>
<tr>
<td>V3162-010 WS1 DLFC 1.0 gpm</td>
</tr>
<tr>
<td>V3162-013 WS1 DLFC 1.3 gpm</td>
</tr>
<tr>
<td>V3162-017 WS1 DLFC 1.7 gpm</td>
</tr>
<tr>
<td>V3162-022 WS1 DLFC 2.2 gpm</td>
</tr>
<tr>
<td>V3162-027 WS1 DLFC 2.7 gpm</td>
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<tr>
<td>V3162-032 WS1 DLFC 3.2 gpm</td>
</tr>
<tr>
<td>V3162-042 WS1 DLFC 4.2 gpm</td>
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<tr>
<td>V3162-053 WS1 DLFC 5.3 gpm</td>
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<tr>
<td>V3162-065 WS1 DLFC 6.5 gpm</td>
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<tr>
<td>V3162-075 WS1 DLFC 7.5 gpm</td>
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<tr>
<td>V3162-090 WS1 DLFC 9.0 gpm</td>
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<tr>
<td>V3162-100 WS1 DLFC 10.0 gpm</td>
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<thead>
<tr>
<th>1” Flow Washers</th>
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<tbody>
<tr>
<td>V3190-090 WS1 DLFC 09.0 gpm</td>
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<tr>
<td>V3190-100 WS1 DLFC 10.0 gpm</td>
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<tr>
<td>V3190-110 WS1 DLFC 11.0 gpm</td>
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<td>V3190-120 WS1 DLFC 12.0 gpm</td>
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<td>V3190-150 WS1 DLFC 15.0 gpm</td>
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<td>V3190-170 WS1 DLFC 17.0 gpm</td>
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<td>V3190-200 WS1 DLFC 20.0 gpm</td>
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<tr>
<td>V3190-250 WS1 DLFC 25.0 gpm</td>
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</table>
1” & 1.25” Control Valve Fittings and Accessories

- 1” PVC Male NPT Elbow Assembly
  Order No. V3007

- ¾” x 1” PVC Solvent Elbow Assembly
  Order No. V3007-01

- 1” Brass Sweat Assembly LF
  Order No. V3007-02LF

- ¾” Brass Sweat Assembly LF
  Order No. V3007-03LF

- 1” Plastic Male NPT Assembly
  Order No. V3007-04

- 1.25” Plastic Male NPT Assembly
  Order No. V3007-05

- 1” Plastic Male BSPT Assembly
  Order No. V3007-06

- 1.25” & 1.5” PVC Solvent Assembly
  Order No. V3007-07

- 1.25” Plastic Male BSPT Assembly
  Order No. V3007-08

- 1.25” & 1.5” Brass Sweat Assembly LF
  Order No. V3007-09LF

- ¾” SharkBite® Assembly
  Order No. V3007-12LF

- 1” SharkBite® Assembly
  Order No. V3007-13LF
1” & 1.25” Control Valve Fittings and Accessories

- **$\frac{3}{4}”$ Plastic Male BSPT Assembly**
  - Order No. V3007-14

- **$\frac{3}{4}”$ John Guest QC Elbow Assembly**
  - Order No. V3007-15

- **1” PVC Male BSPT Elbow Assembly**
  - Order No. V3007-16

- **1” John Guest Straight QC**
  - Order No. V3007-17

- **3/4” Plastic Male NPT Asy**
  - Order No. V3007-18

- **3/4” Straight John Guest QC Asy**
  - Order No. V3007-19

- **1” John Guest Fitting**
  - Order No. V3007-20

- **Bypass**
  - Order No. V3006

- **Mixing Valve**
  - Order No. V4099

- **Vertical 90˚ Adapter Kit**
  - Order No. V3191-01

- **Twin Interconnect Kit - 12”-21”**
  - Order No. V4052-01
Control Valve Accessories

WS1.5P QC X 1.5"
Order No. V4430-01 • NPT
Order No. V4430-02 • BSPT

WS1.5P QC X QC
Order No. V4430-03

WS2H/2QC 2" Side Mount Base Assembly
Order No. V3260-02 • NPT
Order No. V3260BSPT-02 • BSPT

WS3 Side Mount Base Assembly
Order No. V3674-02 • NPT
Order No. V3674BSPT-02 • BSPT

WS2H/WS2QC Flange Base Assembly
Order No. V3055

WS3 Flange Base Assembly
Order No. V3090
Control Valve Accessories

WS1 Adapter Australian - Outdoor
Order No. V3186AUS-05OD

WS1 Adapter European
Order No. V3186EU-06

WS1 Adapter European - Outdoor
Order No. V3186EU-05OD

WS1 Adapter United Kingdom
Order No. V3186UK-06
Control Valve Accessories

- **Auxiliary Microswitch Kit**
  - Order No. V3009

- **WS1 Series Microswitch Assembly**
  - Order No. V3014

- **WS2 Auxiliary Switch Kit**
  - Order No. V3017

- **WS1 Fill and Service Microswitch Kit**
  - Order No. V4242

- **8' DP Wire Harness**
  - Order No. V3473

- **16' DP Wire Harness**
  - Order No. V3473-01

- **8' Alternator/Communication Cable**
  - Order No. V3474

- **12' Communication Cable**
  - Order No. V3475-12

- **24' Communication Cable**
  - Order No. V3475-24

- **36' Communication Cable**
  - Order No. V3475-36

- **15' Power Cord**
  - Order No. V4276-15

- **36' Power Cord**
  - Order No. V4276-36
Control Valve Accessories

WS1 Service Spanner Wrench
Order No. V3193-02

WS1 Stack Puller
Order No. V3022

WS1.25/WS1.5 Stack Puller
Order No. V3022-15

WS1 - 1.25 Weather Covers
Order No. V3175WC-W • White
Order No. V3175WC-A • Almond

WS1.5 Weather Covers
Order No. V3974WC-W • White
Order No. V3974WC-A • Almond

WS2 / WS2QC Weather Covers
Order No. V3783WC-W • White
Order No. V3783WC-A • Almond

WS2H / WS3 Weather Covers
Order No. V4051WC
1” & 1.25” Control Valve Accessories

1” & 1.25” Motorized Alternating Valve
Order No. V3069MM-01 • M x M

1” & 1.25” No Hard Water Bypass Valve
Order No. V3070FF • F x F

1” & 1.25” Motorized Alternating Valve
Order No. V3069FF-01 • F x F

1” & 1.25” No Hard Water Bypass Valve
Order No. V3070FM • F x M
1.5” Control Valve Accessories

1.5” Plastic
Motorized Alternating Valve
Order No. V3071 • NPT
Order No. V3071BSPT • BSPT

1.5” Plastic
No Hard Water Bypass Valve
Order No. V3097 • NPT
Order No. V3097BSPT • BSPT

1.5” Plastic
Motorized Alternating Valve
Order No. V3034

1.5” Plastic
No Hard Water Bypass Valve
Order No. V3035
2" and 3" Control Valve Accessories

**2.0"**
- **Motorized Alternating Valve**
  - Order No. V3076 • NPT
  - Order No. V3076BSPT • BSPT

**2.0"**
- **No Hard Water Bypass Valve**
  - Order No. V3098 • NPT
  - Order No. V3098BSPT • BSPT

**3"**
- **Motorized Alternating Valve**
  - Order No. V3083 • NPT
  - Order No. V3083BSPT • BSPT

**3"**
- **No Hard Water Bypass Valve**
  - Order No. V3099 • NPT
  - Order No. V3099BSPT • BSPT