Pentair Water® offers a full range of Autotrol® Control Valves to meet all residential water conditioning applications.

**Logix™ Series**

**740 Time Clock**
- Simple, economic electronic time clock (chronometric)
- 7- or 99-day regeneration setting
- High efficiency regeneration sequence
- 12-volt operation
- Filter or conditioner setting in one control
- Operates 255, 263, 268 with one controller

**742 Time Clock**
Same features as the 740 Time Clock, plus:
- Fully programmable cycle times
- Salt setting in 1-pound increments
- Optional no-salt detector
- Operates 255, 263, 268, 278, and Magnum® IT with one controller

**760 Demand**
- Simple, economic electronic demand (volumetric)
- Calendar override
- 12-volt operation
- 28-day variable reserve
- High efficiency regeneration sequence
- Automatic capacity calculations
- Operates 255, 263, 268 with one controller

**762 Demand**
Same features as the 760, plus:
- Fully programmable cycle times
- Salt setting in 1-pound increments
- Optional no-salt detector
- Operates 255, 263, 268, 278, and Magnum IT with one controller

**764 Demand**
Same features as the 762, plus:
- Multi-tank applications (twin alternating, multi-tank parallel)
- Control lockout
- Remote regeneration
Specifications

**Electrical**
- **Controller Operating Voltage**: 12 Volt – AC (Requires use of Pentair Water®-supplied transformer)
- **Input Supply Frequency**: 50 or 60 Hz (Controller configuration dependent)
- **Motor Input Voltage**: 12 Volt – AC
- **Controller System Power Consumption**: 3 Watts average

**Transformer – All Controllers**
- All Controllers require the use of a Pentair Water-supplied transformer.
- **Transformer Output Voltage**: 12 Volt – AC 400mA
- **Transformer Input Options**: 115 Volt – AC 50/60 Hz; 230 Volt – AC 50/60 Hz; 100 Volt – AC 50/60 Hz
- **Transformer Plug Options**:
  - Indoor North American Plug
  - Outdoor North American Plug (UL Listed for outdoor use)
  - Japanese Plug
  - Taiwan/Korea Plug
  - Australian Plug
  - United Kingdom Plug
  - Mainland Europe Plug

Additional transformers may be available – call for more information.

**Design Specifications/Ratings**
- **Valve Body**: Glass-filled thermoplastic – NSF Listed material
- **Rubber Components**: Compounded for cold water – NSF Listed material
- **Valve Materials Certification**: WQA Gold Seal Certified to ORD 0902 and NSF/ANSI 44 Rated component for material safety
- **Weight (Valve with Control)**: 5.34 lbs (2.42 kg)
- **Recommended Operating Pressure**:
  - **Canada**: 20 - 100 psi (1.38 - 6.89 bar)
  - **Canada**: 20 - 120 psi (1.38 - 8.27 bar)
- **Hydrostatic Test Pressure**: 300 psi (20.69 bar)
- **Water Temperature**: 35° - 100°F (2° - 38°C)
- **Ambient Temperature***: 35° - 120°F (2° - 48.9°C)

*Recommend use of outdoor cover for direct sunlight applications.

**Options**
- **Turbine for Demand Systems**: Internal Standard Autotrol® 1-inch (25 mm) turbine
- **Bypass Valve, Model 1265**: Thermoplastic, 1-inch flow path
- **Bypass Fitting Kits**:
  - Copper, Sweat Tube Adapter: 1-1/4-inches, 1-inch or 3/4 inch (32 mm, 25 mm or 19 mm)
  - CPVC, Solvent Weld Tube Adapter: 1-inch or 3/4-inch (25 mm or 19 mm)
  - Plastic NPT or BSPT Pipe Adapter: 1-inch male or 3/4-inch male (25 mm or 19 mm)
  - Stainless Steel NPT or BSPT Pipe Adapter: 1-inch male or 3/4-inch male (25 mm or 19 mm)
  - Brine Refill Controls: \(.14\) gpm (.53 Lpm) fixed; \(.33\) gpm (1.25 Lpm) fixed; \(.74\) gpm (2.8 Lpm) fixed; 1.3 gpm (4.92 Lpm) fixed
- **Compatible with Regenerants/Chemicals**: Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite*, sodium hydroxide*, hydrochloric acid*, chlorine†† and chloramines††

*See owners manual for specific concentrations. ††Valve for use on potable water supply.
Dimensions

Valve Connections
Tank Thread 2-1/2-inches – 8, male
Inlet/Outlet Threads 1-3/4-inches – 12 UNC-2A male
Drain Line 3/4-inch NPT, male
Brine Line 3/8-inch NPT, male
Distributor Tube Diameter 1.050 inches (27 mm)
Distributor Tube Length 1/2 ± 1/2-inches (13 ± 13 mm) above top of tank

Outline Dimensions

Performance

Flow Rates (Valve Only)
Service @ 15 psi (1.03 bar) drop 25.0 gpm (5.7 m³/h)
Backwash @ 25 psi (1.72 bar) drop 20.0 gpm (4.5 m³/h)
Service Cv = 6.50 (Kv = 5.6)
Backwash Cv = 4.00 (Kv = 3.5)

Logix™ Series Controller Flow Rate Characteristics

Backwash Flow Control Table

<table>
<thead>
<tr>
<th>Backwash Number*</th>
<th>Flow Rate (gpm)</th>
<th>Flow Rate (lpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>1.3</td>
<td>4.9</td>
</tr>
<tr>
<td>8</td>
<td>1.7</td>
<td>6.4</td>
</tr>
<tr>
<td>9</td>
<td>2.2</td>
<td>8.3</td>
</tr>
<tr>
<td>10</td>
<td>2.7</td>
<td>10.2</td>
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<tr>
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<td>3.9</td>
<td>14.76</td>
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<tr>
<td>13</td>
<td>4.5</td>
<td>17.0</td>
</tr>
<tr>
<td>14</td>
<td>5.3</td>
<td>20.0</td>
</tr>
</tbody>
</table>

*Backwash flow controls sized for 5.0 gpm/ft².
Injector* Performance
Logix™ Series Controllers

*New injectors for high-efficiency regeneration sequence are standard with Logix Controllers.

NOTE: Actual injector performance is dependent on the resin used, tank geometry, elevated drain, etc. This injector data was taken using an empty tank (no resin).