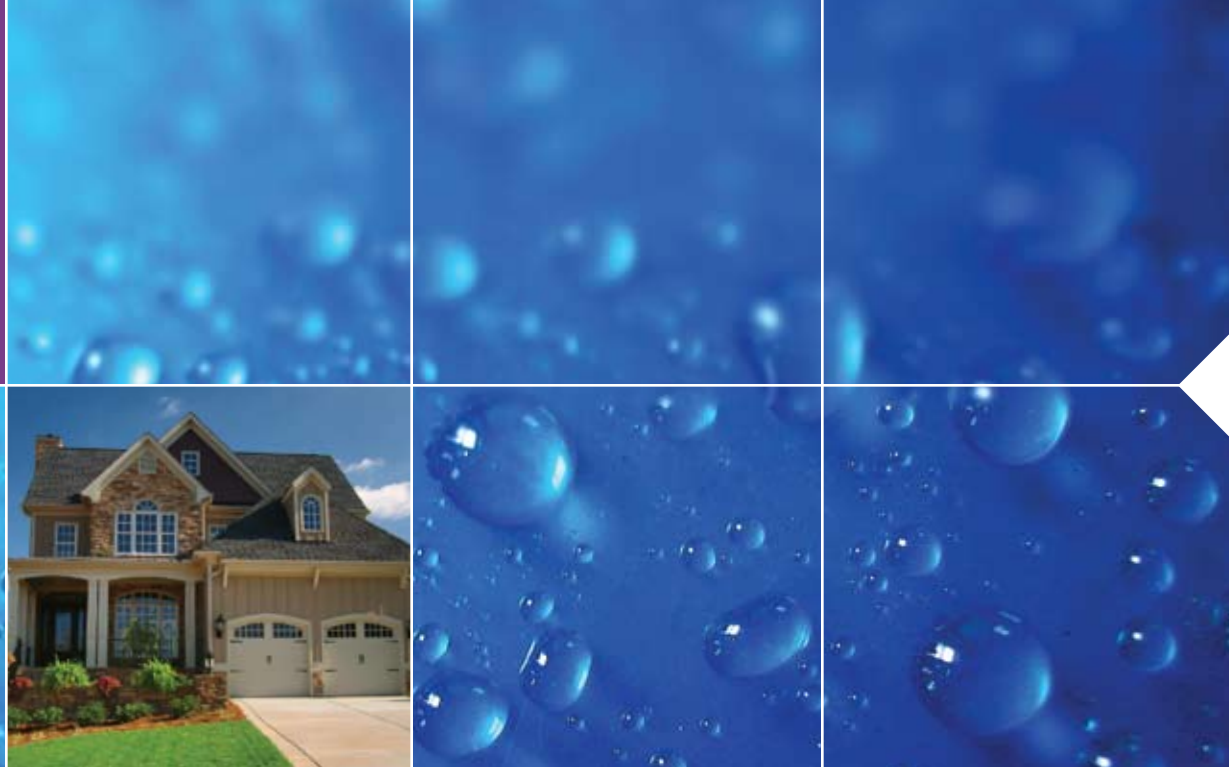




# Performa™ Control Valves

263 and 268 Configurations



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



**Autotrol**  
Pentair Water

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  Taiwan/Korea Plug <br>Outdoor North American (UL Listed for outdoor use)  Australian Plug <br>Japanese Plug  United Kingdom Plug <br>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 | 20 - 120 psi (1.38 - 8.27 bar)                                                          |
| Canada                         | 20 - 100 psi (1.38 - 6.89 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;<br>.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.

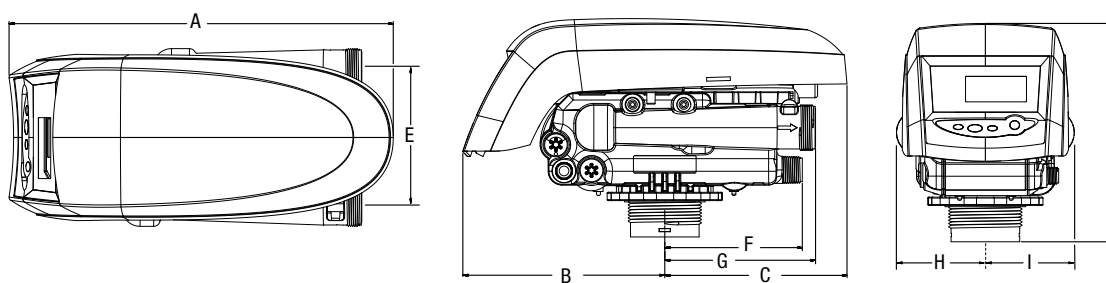


## Dimensions

### 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



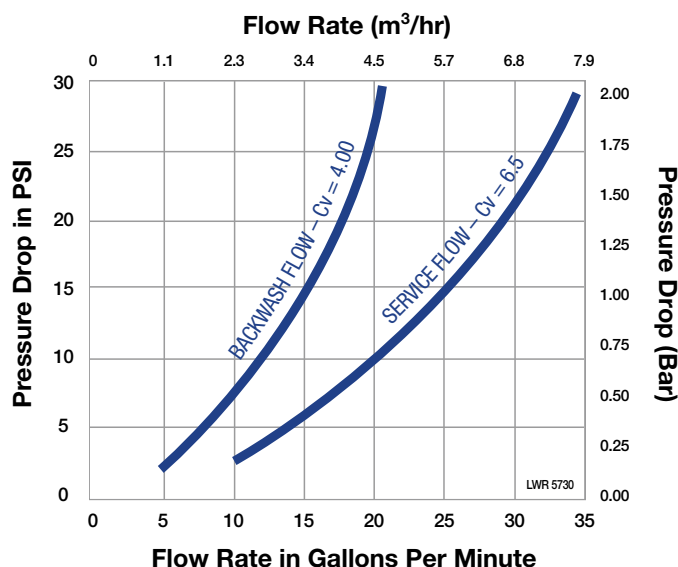
| Units  | A    | B    | C    | D    | E    | F    | G    | H   | I   |
|--------|------|------|------|------|------|------|------|-----|-----|
| inches | 14.9 | 7.8  | 7.1  | 8.5  | 5.0  | 5.3  | 5.8  | 3.4 | 3.4 |
| cm     | 37.8 | 19.9 | 17.9 | 21.5 | 12.7 | 13.5 | 14.8 | 8.7 | 8.7 |

## 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



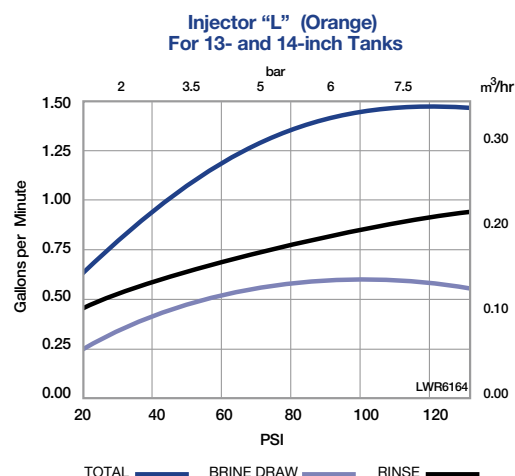
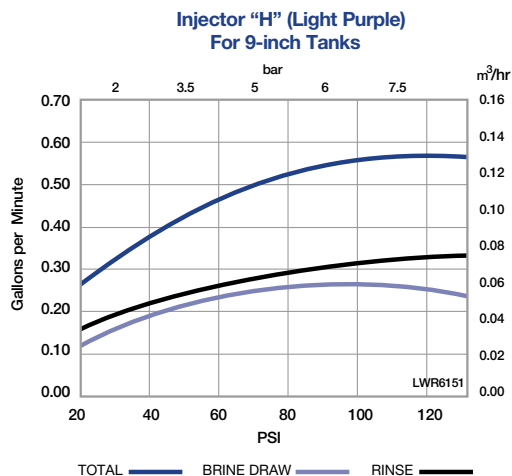
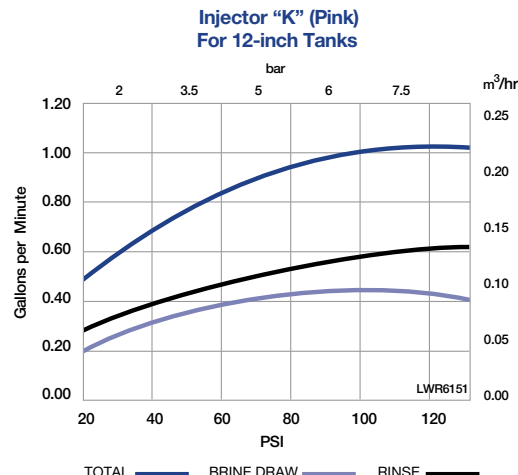
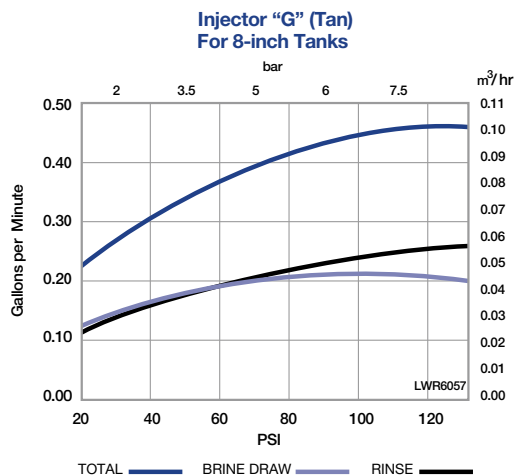
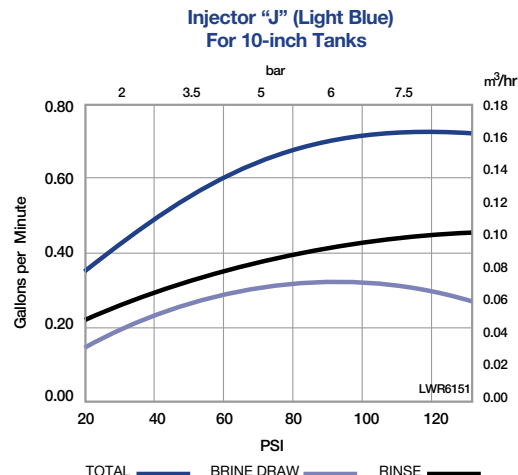
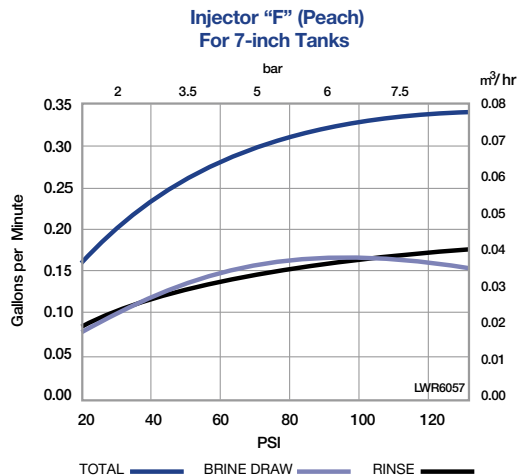
### Backwash Flow Control Table

| Backwash Number* | Flow Rate (gpm) | Flow Rate (lpm) |
|------------------|-----------------|-----------------|
| 7                | 1.3             | 4.9             |
| 8                | 1.7             | 6.4             |
| 9                | 2.2             | 8.3             |
| 10               | 2.7             | 10.2            |
| 12               | 3.9             | 14.76           |
| 13               | 4.5             | 17.0            |
| 14               | 5.3             | 20.0            |

\*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).



20580 Enterprise Avenue  
Brookfield, WI 53045  
Tel: 262.784.4490  
Fax: 262.784.7794

5730 North Glen Park Road  
Milwaukee, WI 53209  
Tel: 262.238.4400  
Fax: 262.238.4402

©2010 Pentair Residential Filtration, LLC  
1223489 Rev D FE10

Customer Care: 800.279.9404 [www.pentairwatertreatment.com](http://www.pentairwatertreatment.com)