

**RESIDENTIAL  
CONTROL  
VALVES**



# 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

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## Specifications

### Electrical

Controller Operating Voltage	12 Volt – AC (Requires use of Pentair Water <sup>®</sup> -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 	
	Outdoor North American (UL Listed for outdoor use) 	Australian Plug 	
	Japanese Plug 	United Kingdom Plug 	
		Mainland Europe Plug 	

Additional transformers may be available – call for more information.

## Design Specifications/Ratings

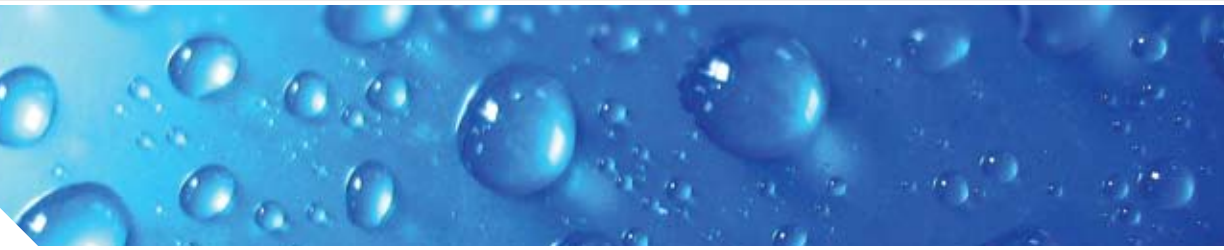
Valve Body	Glass-filled thermoplastic – NSF Listed material
Rubber Components	Compounded for cold water – NSF Listed material
Valve Materials Certification	WQA Gold Seal Certified to ORD 0902 and NSF/ANSI 44 Rated component for material safety
Weight (Valve with Control)	5.34 lbs (2.42 kg)
Recommended Operating Pressure	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 <sup>®</sup> 1-inch (25 mm) turbine
Bypass Valve, Model 1265	Thermoplastic, 1-inch flow path
<i>Bypass Fitting Kits:</i>	
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 <sup>†</sup> , sodium hydroxide <sup>†</sup> , hydrochloric acid <sup>†</sup> , chlorine <sup>††</sup> and chloramines <sup>††</sup>

<sup>†</sup>See owners manual for specific concentrations. <sup>††</sup>Valve for use on potable water supply.

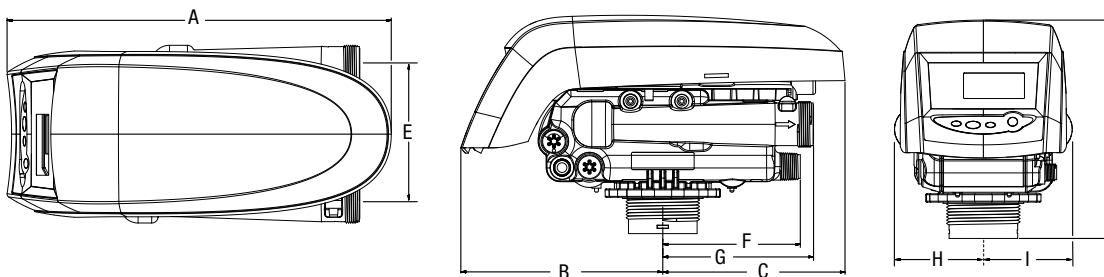


## Dimensions

### 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



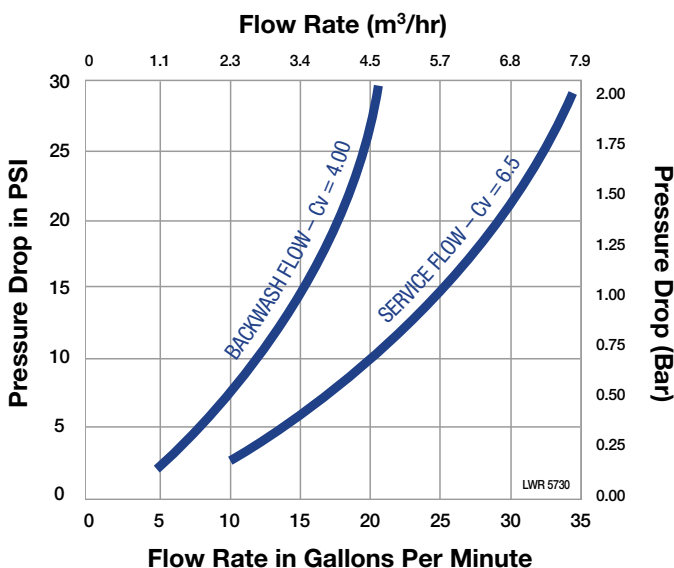
Units	A	B	C	D	E	F	G	H	I
inches	14.9	7.8	7.1	8.5	5.0	5.3	5.8	3.4	3.4
cm	37.8	19.9	17.9	21.5	12.7	13.5	14.8	8.7	8.7

## Performance

### Flow Rates (Valve Only)

Service @ 15 psi (1.03 bar) drop	25.0 gpm (5.7 m <sup>3</sup> /h)
Backwash @ 25 psi (1.72 bar) drop	20.0 gpm (4.5 m <sup>3</sup> /h)
Service	Cv = 6.50 (Kv = 5.6)
Backwash	Cv = 4.00 (Kv = 3.5)

### Logix™ Series Controller Flow Rate Characteristics

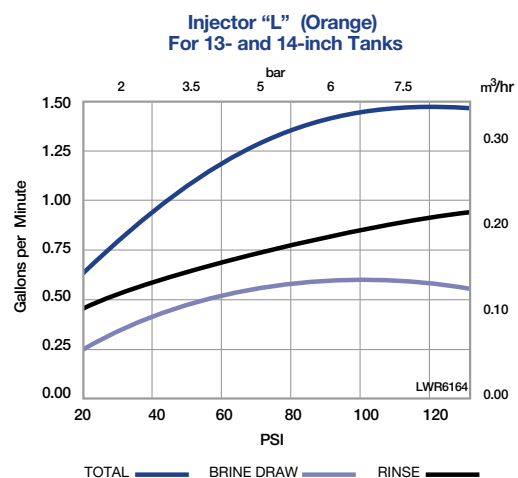
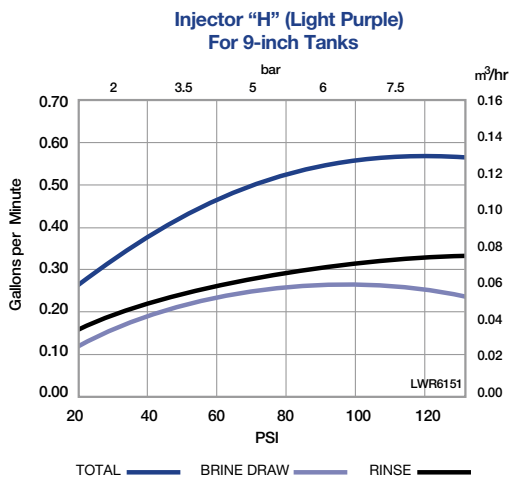
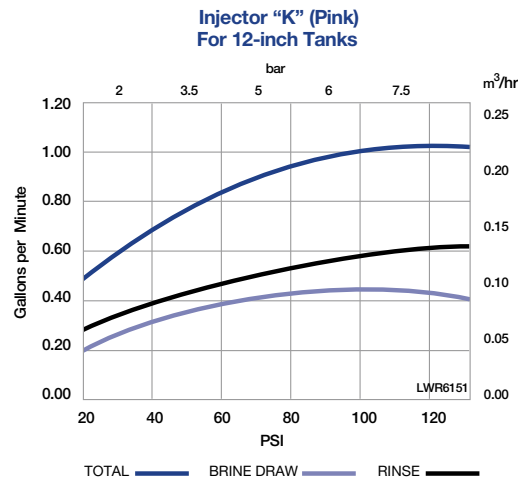
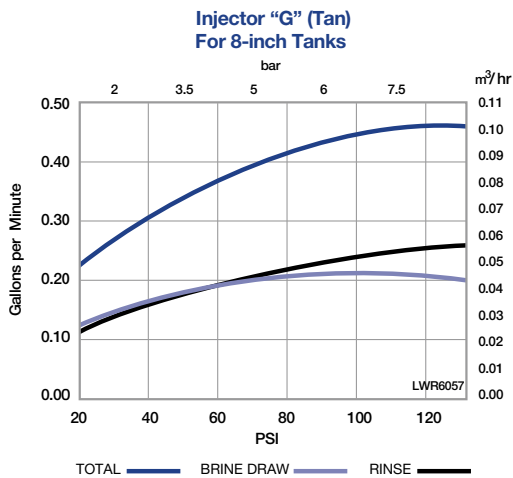
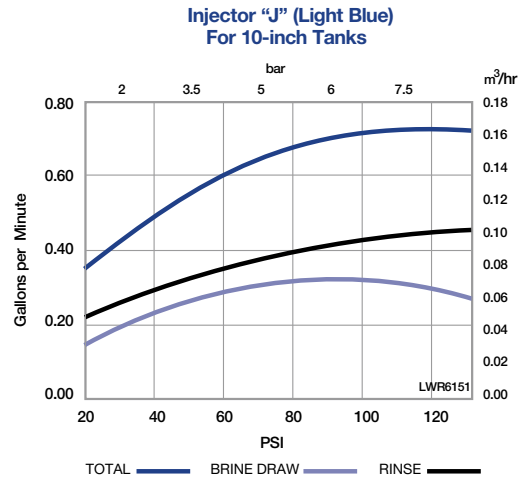
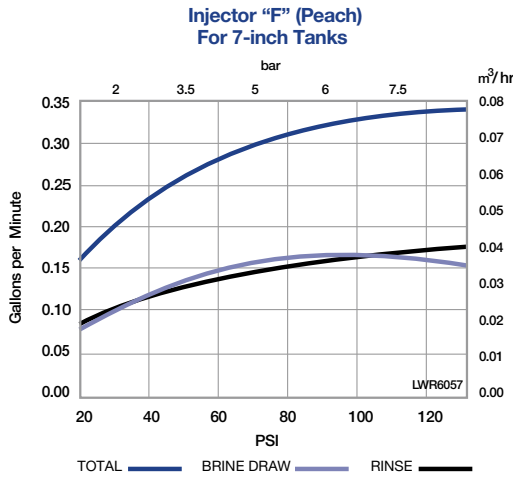


### Backwash Flow Control Table

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/ft<sup>2</sup>.

**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).