

Performa™ Cv Control Valves

273 and 278 Configurations



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

Logix™ Series

742 Time Clock

- Simple, economic electronic time clock (chronometric)
- 7- or 99-day regeneration setting
- 12-volt operation
- Filter or conditioner setting in one control
- Fully programmable cycle times
- Salt setting in 1-pound increments
- Operates 255, 263, 268, 273, 278, and Magnum[®] IT with one controller

762 Demand

- Simple, economic electronic demand (volumetric)
- Calendar override
- 12-volt operation
- 28-day variable reserve
- Automatic capacity calculations
- Fully programmable cycle times
- Salt setting in 1-pound increments
- Operates 255, 263, 268, 273, 278, and Magnum IT with one controller

764 Demand

Same features as the 762, plus:

- Multi-tank applications (twin alternating, multitank parallel)
- Control lockout
- Remote regeneration



COMMERCIAL CONTROL **VALVES**

Performa Cv Control Valves

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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)

12 Volt - AC Motor Input Voltage 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

115 Volt - AC 50/60 Hz; 230 Volt - AC 50/60 Hz; 100 Volt - AC 50/60 Hz Transformer Input Options

Indoor North American Plug Transformer Plug Options Taiwan/Korea Plug

> Australian Plug Outdoor North American (UL Listed for outdoor use) United Kingdom Plug

> Japanese Plug (11) 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 ORD0902 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) 20 - 100 psi (1.38 - 6.89 bar) Canada

Hydrostatic Test Pressure 300 psi (20.69 bar) 35° - 100°F (2° - 38°C) Water Temperature 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 .33 gpm (1.25 lpm) fixed; .74 gpm (2.8 lpm) fixed; 1.3 gpm (4.92 lpm) fixed Sodium chloride, potassium chloride, potassium permanganate, sodium Compatible with Regenerants/Chemicals bisulfite†, sodium hydroxide†, hydrochloric acid†, chlorine†† and chloramines††

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



Dimensions

Valve Connections

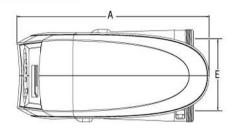
Tank Thread 2-1/2-inches - 8, male

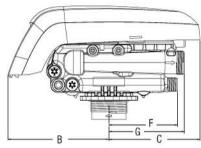
Inlet/Outlet Threads 1-3/4-inches - 12 UNC-2A male

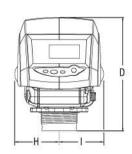
Drain Line 3/4-inch NPT, male
Brine Line 3/8-inch NPT, male
Distributor Tube Diameter 1.050 inches (27 mm)

Distributor Tube Length $1/2 \pm 1/2$ -inches (13 ± 13 mm) above top of tank

Outline Dimensions





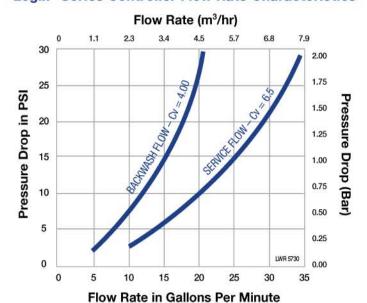


| Units | A | В | C | D | E | F | G | Н | E |
|--------|------|------|------|------|------|------|------|-----|-----|
| inches | 14.9 | 7.8 | 7.1 | 8.5 | 5.0 | 5.3 | 5.8 | 3.4 | 3.4 |
| cm | 37.8 | 19.9 | 17.9 | 21.5 | 12.7 | 13.5 | 14.8 | 8.7 | 8.7 |

Performance

Flow Rates (Valve Only)

Logix™ Series Controller Flow Rate Characteristics



Backwash Flow Control Table

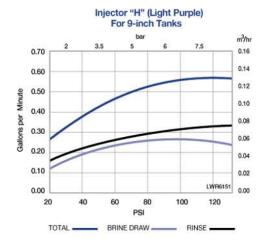
| Backwash Number* | Flow Rate (gpm) | Flow Rate (Ipm) |
|---------------------|--------------------|--------------------|
| 9 | 2.2 | 8.3 |
| 10 | 2.7 | 10.2 |
| 12 | 3.9 | 14.76 |
| 13 | 4.5 | 17.0 |
| 14 | 5.3 | 20.0 |

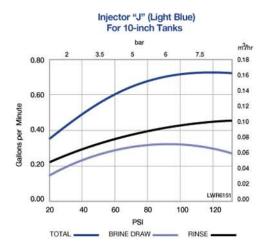
^{*}Backwash flow controls sized for 5.0 gpm/ft2.

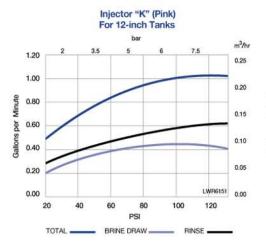
NOTE: External drain line flow controls available for flow rates from 1.3 gpm (4.9 lpm) to 20 gpm (75.7 lpm).

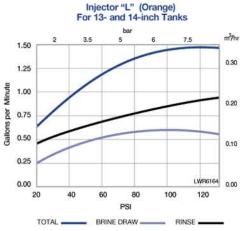
Injector* Performance

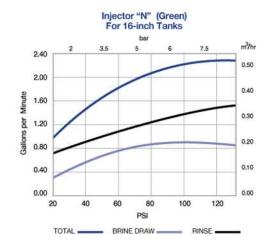
Logix™ Series Controllers

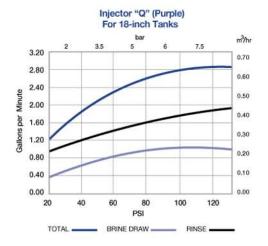


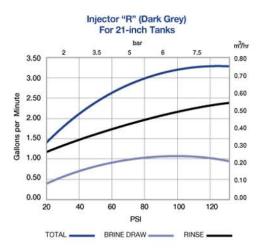












*New injectors for high-efficiency regeneration sequence are standard with Logix Controllers.

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).



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