



# TECHNICAL SHEET

## AUTOTROL

### PERFORMA CV CONTROL VALVE - LOGIX SERIES





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### TIMER CHARACTERISTICS

#### 742 TIME CLOCK

Electronic time clock (chronometric)

1- or 99-day regeneration setting (days interval) or days of the week

12 V operation

Filter or conditioner setting in one control

Fully programmable cycle times

Salt setting in 10-grams increments

Operates 255, 263, 268, 273, 278 and Magnum IT with one controller

#### 762 DEMAND

Simple, economic electronic demand (volumetric)

Calendar override

12 V operation

28-day variable reserve

Automatic capacity calculations

Fully programmable cycle times

Salt setting in 10-grams 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, multi-tank parallel)

Control lockout

Remote regeneration

## TECHNICAL SPECIFICATIONS

### VALVE SPECIFICATIONS

|                                     |   |
|-------------------------------------|---|
| 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, NSF/ANSI 44, CE, ACS |
| Weight (Valve with Control)         | 2.42 kg (5.34 lbs)  |
| Recommended Operating Pressure      | 1.38-8.27 bar (20-120 psi)                                |
| Hydrostatic Test Pressure           | 20.69 bar (300 psi)                                       |
| Water Temperature                   | 2-38°C (35-100°F)   |
| Ambient Temperature*                | 2-48.9°C (35-120°F)                                       |
| Controller Operating Voltage        | 12 VAC (Requires use of Pentair-supplied transformer)     |
| Input Supply Frequency              | 50 or 60 Hz (Controller configuration dependent)          |
| Motor Input Voltage                 | 12 VAC  |
| Controller System Power Consumption | 3 W average   |

\* Recommend use of outdoor cover for direct sunlight applications

### TRANSFORMER – ALL CONTROLLERS

|                            |   |
|----------------------------|---|
| Transformer Output Voltage | 12 VAC 150 mA                               |
| Transformer Input Options  | 230 VAC 50/60 Hz                            |
| Transformer Plug Options   | United Kingdom Plug<br>Mainland Europe Plug |

All Controllers require the use of a Pentair-supplied transformer. Additional transformers may be available – call for more information.

### FLOW RATES (VALVE ONLY)

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

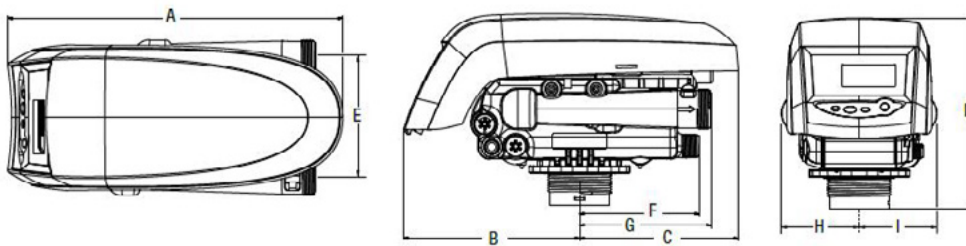
### VALVE CONNECTIONS

|                           |   |
|---------------------------|---|
| Tank Thread               | 2½ inches – 8, male                       |
| Inlet/Outlet Threads      | 1¾ inches – 12 UNC-2A male                |
| Drain Line                | ¾ inch NPT, male                          |
| Brine Line                | ¾ inch NPT, male                          |
| Distributor Tube Diameter | 27 mm (1.050 inch)                        |
| Distributor Tube Length   | 13 ± 13 mm [½ ± ½-inch] above top of tank |

## OPTIONS

|  |   |
|--|---|
| Turbine for Demand Units                   | Internal Standard Autotrol 25 mm (1-inch) turbine                               |
| Bypass Valve, Model 1265                   | Thermoplastic, 1-inch flow path   |
| <b>Bypass Fitting Kits:</b>                |   |
| • Copper, Sweat Tube Adapter               | 32, 25 or 19 mm (1¼, 1 or ¾ inch)   |
| • CPVC, Solvent Weld Tube Adapter          | 25 or 19 mm (1 or ¾ inch)   |
| • Plastic NPT or BSPT Pipe Adapter         | 25 or 19 mm male (1 or ¾ inch)  |
| • Stainless steel NPT or BSPT Pipe Adapter | 25 or 19 mm male (1 or ¾ inch)  |
| • Brine Refill Controls                    | 0.33 gpm (1.25 Lpm) fixed<br>0.74 gpm (2.8 Lpm) fixed; 1.3 gpm (4.92 Lpm) fixed |

## DIMENSIONS



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

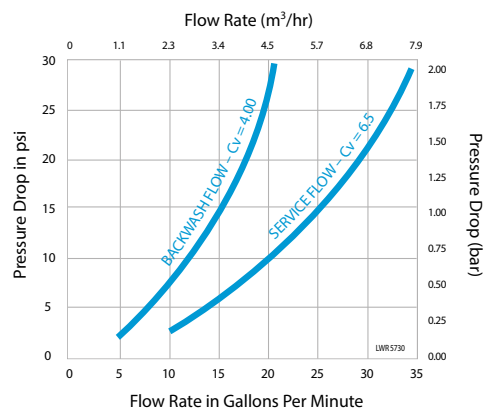
## PERFORMANCE

### BACKWASH FLOW CONTROL

| Backwash number* | Flow Rate (gpm) | Flow Rate (Lpm) |
|------------------|-----------------|-----------------|
| 7                | 1.30            | 4.90            |
| 8                | 1.70            | 6.40            |
| 9                | 2.20            | 8.30            |
| 10               | 2.70            | 10.20           |
| 12               | 3.90            | 14.76           |
| 13               | 4.50            | 17.00           |
| 14               | 5.30            | 20.00           |

\*Backwash flow controls sized for 5.0 gpm/sq. ft.

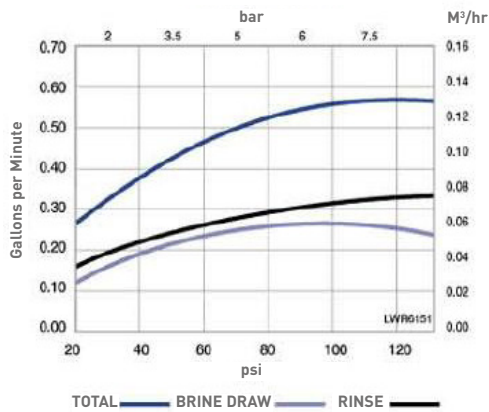
### FLOW RATE VS PRESSURE DROP



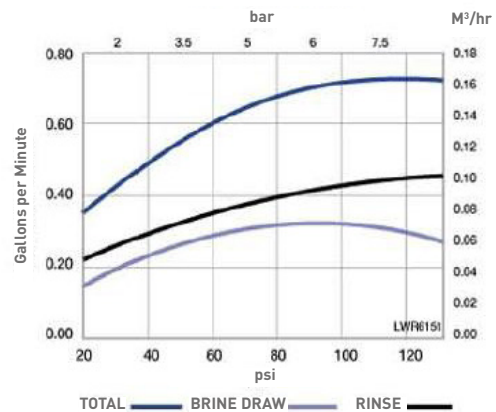
## INJECTOR\* PERFORMANCE

### LOGIX SERIES CONTROLLERS

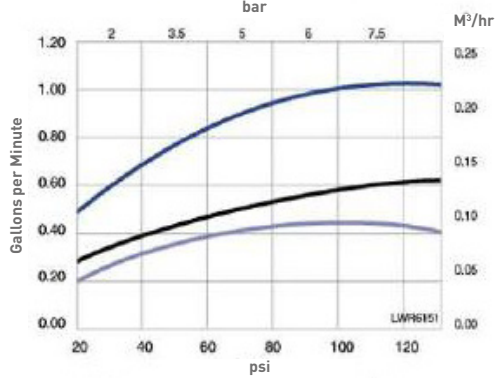
Injector "H" (Light Purple)  
For 9-inch Tanks



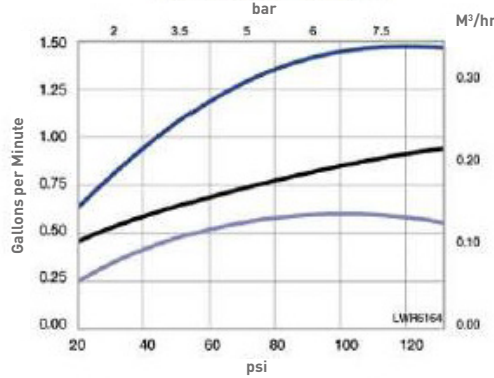
Injector "J" (Light Blue)  
For 10-inch Tanks



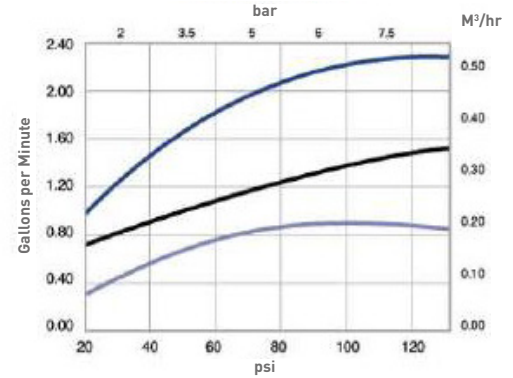
Injector "K" (Pink)  
For 12-inch Tanks



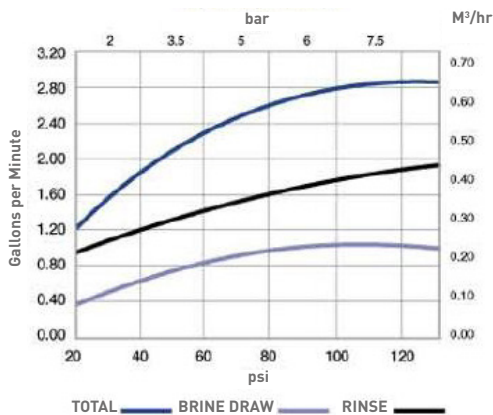
Injector "L" (Orange)  
For 13-inch and 14-inch Tanks



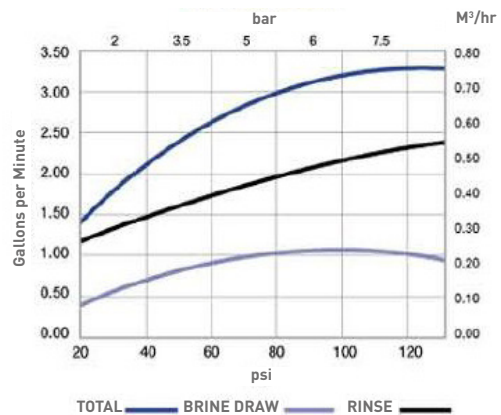
Injector "N" (Green)  
For 16-inch Tanks



Injector "Q" (Purple)  
For 18-inch Tanks



Injector "R" (Dark Grey)  
For 21-inch Tanks



\*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).



[www.pentairaquaeurope.com](http://www.pentairaquaeurope.com)