PENTAIR

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 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^3/h (25.0 gpm)
Backwash @ 1.72 bar (25 psi) drop	4.5 m^3/h (20.0 gpm)
Service	Kv = 5.6 (Cv = 6.50)
Backwash	Kv = 3.5 (Cv = 4.00)

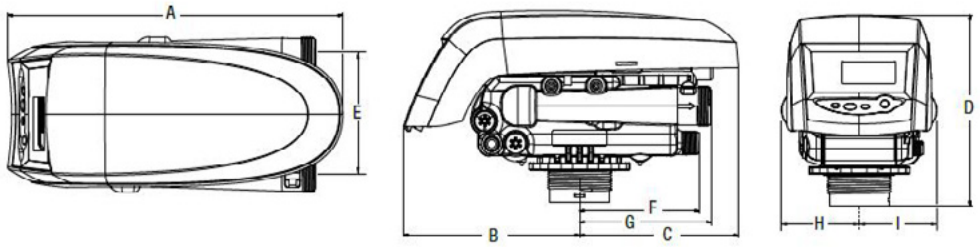
VALVE CONNECTIONS

Tank Thread	2½ inches – 8, male
Inlet/Outlet Threads	1¾ inches – 12 UNC-2A male
Drain Line	¾ inch NPT, male
Brine Line	⅜ 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
Bypass Fitting Kits:	
• 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 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

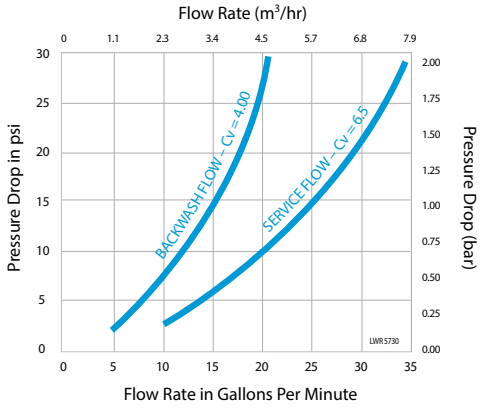
PERFORMANCE

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.

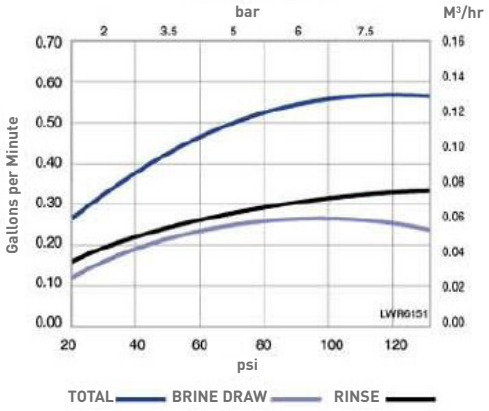
FLOW RATE VS PRESSURE DROP



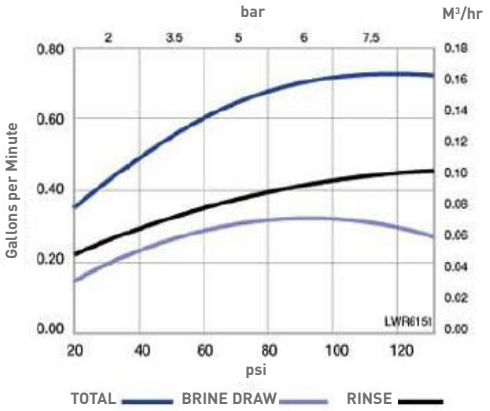
INJECTOR* PERFORMANCE

LOGIX SERIES CONTROLLERS

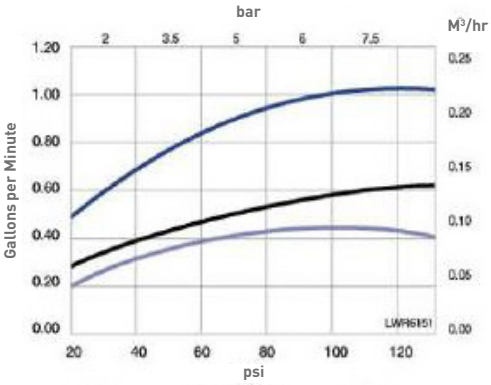
Injector "H"(Light Purple)
For 9-inch Tanks



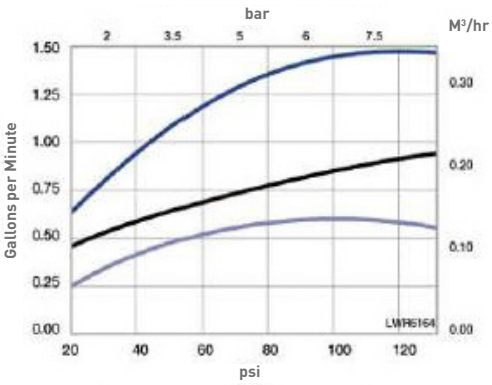
Injector "J"(Light Blue)
For 10-inch Tanks



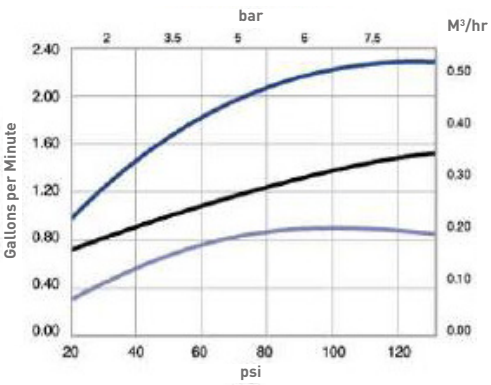
Injector "K"(Pink)
For 12-inch Tanks



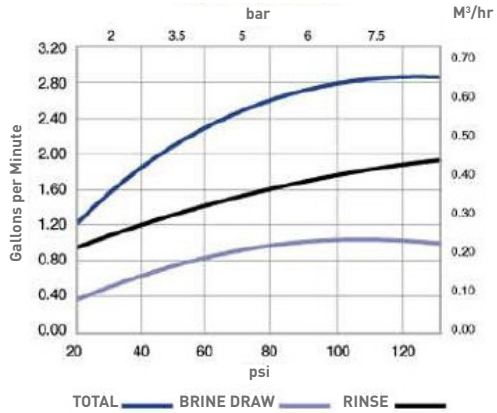
Injector "L"(Orange)
For 13-inch and 14-inch Tanks



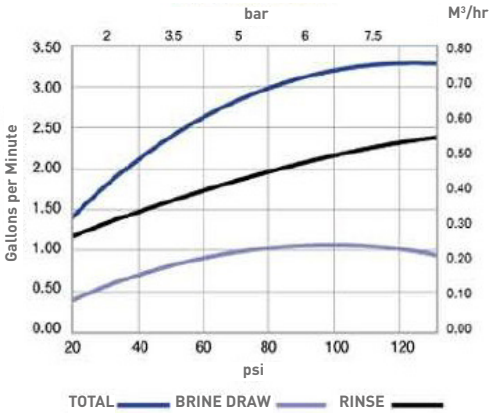
Injector "N"(Green)
For 16-inch Tanks



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).

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