

PERFORMA CV 278 EASY-IQ

AUTOTROL
CONTROL VALVE



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AUTOTROL CONTROL VALVE



TECHNICAL CHARACTERISTICS

- ◆ Dedicated to softening applications up to 21" diameter tanks
- ◆ 100% Retrofitting capabilities with Logix valve with quick-start menu and minimal programming needed
- ◆ Time clock or Volumetric valve (1" Autotrol internal turbine)

EASY-IQ CONTROLLER

| | |
|--|--|
| Electronic controller time clock (chronometric) or metered (volumetric) in one | Manual regeneration, immediate or delayed |
| Quick start-up programming for user friendliness | Calendar override |
| Automatically calculated or fully programmable cycle times | Remote regeneration feature |
| Intuitive programming menus dedicated to homeowners, installers and OEMs | Reserve options: variable based on consumption or fixed % or volume |
| Colour display multi-lingual - 7 languages | Wifi ready (not connected) |
| Customizable software and messages | Salt setting in 10-grams increments |
| Password setting | Salt alert settings & continuous flow alert for user |
| USB-C port for easy software updates on the field or in house programming upload | Diagnostics menu with regeneration information, history water usage, and actual status datae |
| Holiday mode for the user | Supercapacitor back-up for minimum 24h in case of power failure |

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* | 3-40°C (37-104°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 require the use of a Pentair supplied transformer.

| | |
|----------------------------|---|
| Transformer Output Voltage | 12 VAC |
| Transformer Input Options | 230 VAC 50/60 Hz |
| Transformer Plug Options | United Kingdom Plug Mainland Europe Plug |

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) |

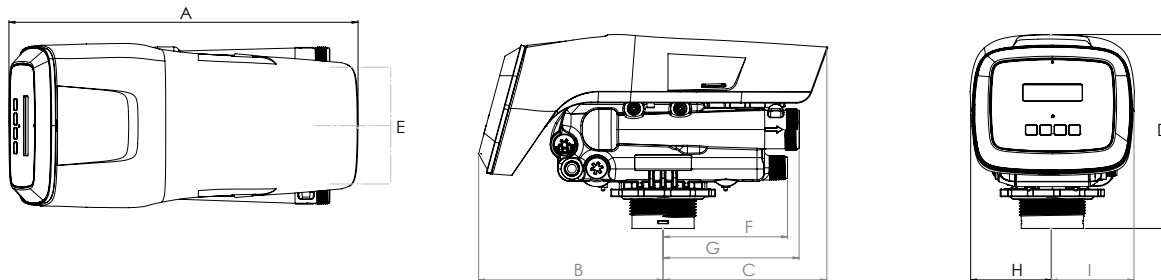
VALVE CONNECTIONS

| | |
|---------------------------|--|
| Tank Thread | 2½ inches – 8, male |
| Inlet/Outlet Threads | 1¾ inches – 12 UNC-2A male |
| Drain Line | ¾ inch NPT, male |
| Brine Line | ¾ inch NPT, male |
| Distributor Tube Diameter | 27 mm (1.050 inch) |
| Distributor Tube Length | 13 ± 3 mm (½ ± ⅛ 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 1.3 gpm (4.92 Lpm) fixed |

DIMENSIONS



| Units | A | B | C | D | E | F | G | H | I |
|--------|------|------|------|------|------|------|------|-----|-----|
| cm | 37.9 | 20.3 | 17.8 | 21.1 | 12.7 | 13.5 | 14.8 | 8.7 | 8.7 |
| inches | 14.9 | 7.9 | 7.0 | 8.5 | 5.0 | 5.3 | 5.8 | 3.4 | 3.4 |

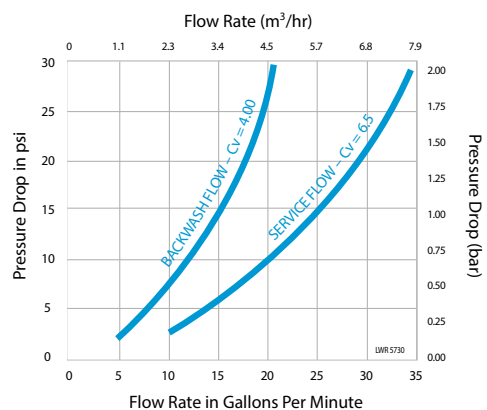
PERFORMANCE

BACKWASH FLOW CONTROL

| Tank size | Backwash number* | Flow Rate (gpm) | Flow Rate (l/min) |
|-----------|------------------|-----------------|-------------------|
| 9" | 9 | 2 | 7.6 |
| 10" | 10 | 2.5 | 9.5 |
| 12" | 12 | 3.5 | 13.2 |
| 13" | 13 | 4.1 | 15.5 |
| 14" | 14 | 4.8 | 18.2 |
| 16" | EXT BW | 7 | 26.5 |
| 18" | EXT BW | 9 | 34 |
| 21" | EXT BW | 12 | 45 |

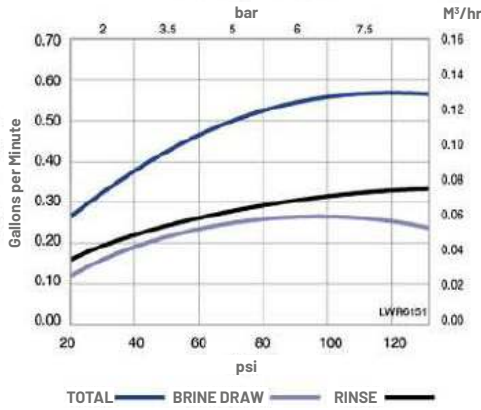
*Backwash flow controls sized for 5.0 gpm/sq. ft.

FLOW RATE VS PRESSURE DROP

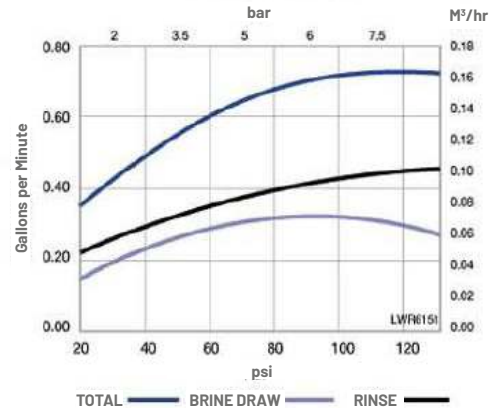


INJECTOR* PERFORMANCE

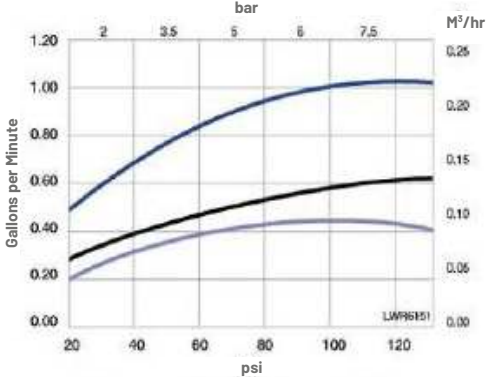
Injector "H"(Light Purple)
For 9-inch Tanks



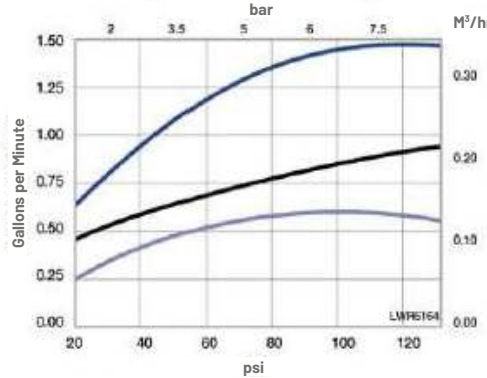
Injector "J"(Light Blue)
For 10-inch Tanks



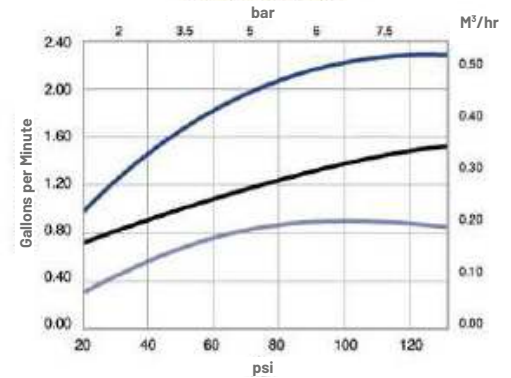
Injector "K"(Pink)
For 12-inch Tanks



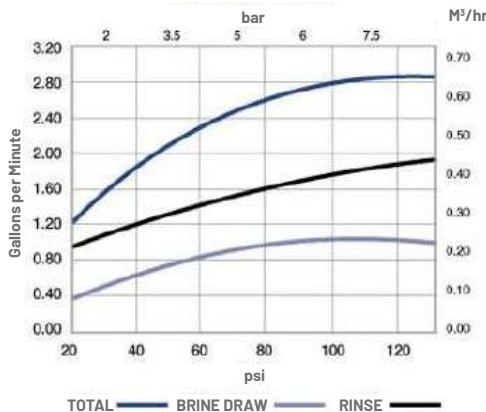
Injector "L"(Orange)
For 13-inch and 14-inch Tanks



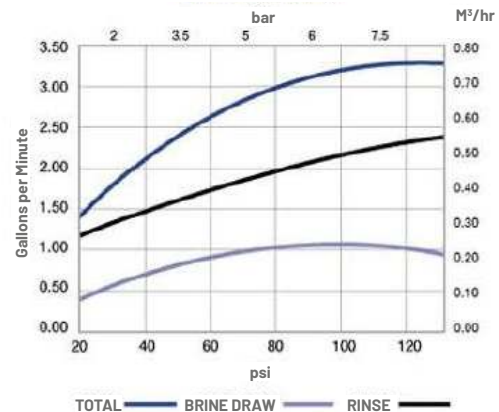
Injector "N"(Green)
For 16-inch Tanks



Injector "O"(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).