

# 255 EASY-1Q

AUTOTROL  
CONTROL VALVE



# 255 EASY-IQ

## AUTOTROL CONTROL VALVE



### TECHNICAL CHARACTERISTICS

- ◆ Dedicated to softening applications up to 14"
- ◆ Time clock or volumetric valve (1" Autotrol internal turbine)
- ◆ 100% Retrofitting capabilities with Logix valve with quick-start-up menu and minimal programming needed

### 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	High efficiency regeneration sequence
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
Wifi ready (not connected)	

## 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)	1.8 kg (4 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 Water 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	3.52 m <sup>3</sup> /h (15.5 gpm)
Backwash @ 1.72 bar (25 psi) drop	1.36 m <sup>3</sup> /h (6.0 gpm)
Service	Kv = 3.4 (Cv = 3.99)
Backwash	Kv = 1.0 (Cv = 1.20)

Note: Tested with a ¾-inch brass manifold

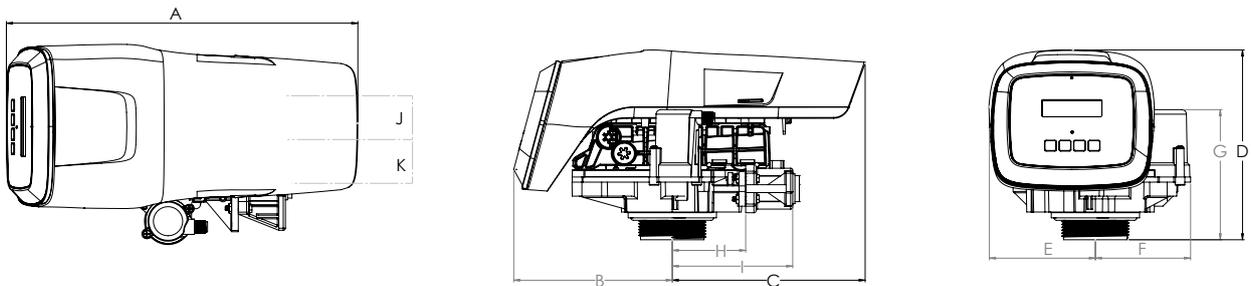
## VALVE CONNECTIONS

Tank Thread	2½ inches – 8, male	Brine Line	¼ inch or ⅜ inch NPT, male; air check built into valve
Inlet/Outlet Manifold (brass or thermoplastic)	1 inch BSPT, female ¾ BSPT, male (thermoplastic) ½ inch BSPT, male (thermoplastic) ½ inch BSPT, male (thermoplastic)	Distributor Tube (diameter)	27 mm (1.050 inch) or 20.6 mm (13/16 inch) with adapter
Drain Line	½ inch (manifold dependent)	Distributor Tube (length)	29 mm ± 3 mm (1¼ ± ⅛ inch) above top of tank

**OPTIONS**

Turbine for Demand Units	Standard manifold, 1-inch Autotrol Turbine
Bypass Valve	Thermoplastic, 1-inch flow path, 13mm (½ inch) NPT male, drain
<b>Bypass Inlet-Outlet Fitting Kits:</b>	
• Copper, Sweat Tube Adapter	25 or 19 mm (1 inch or ¾ inch)
• CPVC, Solvent Weld Tube Adapter	25 or 19 mm (1 inch or ¾ inch)
• Plastic BSPT Pipe Adapter	25 or 19 mm male (1 inch or ¾ inch)
• Stainless steel or BSPT Pipe Adapter	25 or 19 mm male (1 inch or ¾ inch)
Brine Refill Controls	0.33 gpm (1.25 Lpm) fixed

**DIMENSIONS**



Units	A	B	C	D	E	F	G	H	I	H	K
cm	37.9	17.1	20.8	20.6	11.4	10.2	14.5	7.9	13.0	3.8	3.8
inches	14.9	6.7	8.2	8.1	4.4	4.0	5.7	3.1	5.1	1.5	1.5

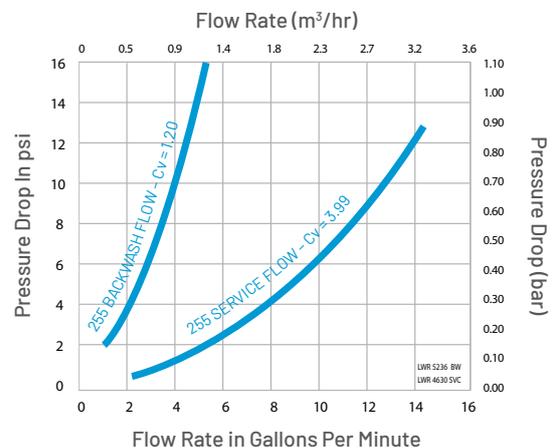
**PERFORMANCE**

**BACKWASH FLOW CONTROL**

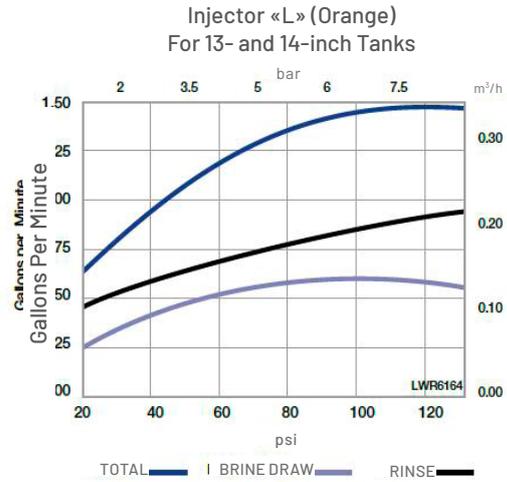
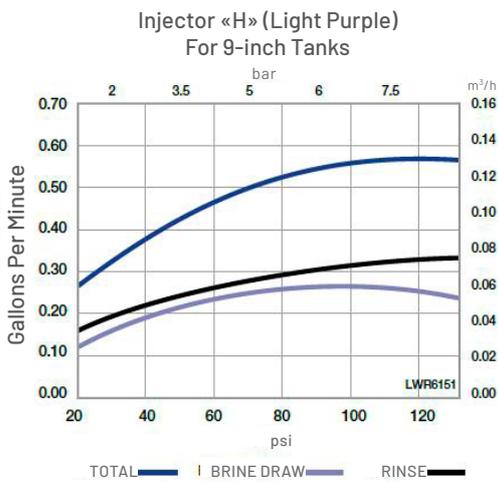
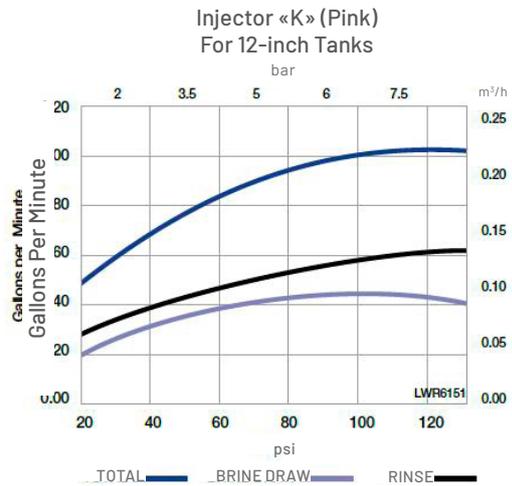
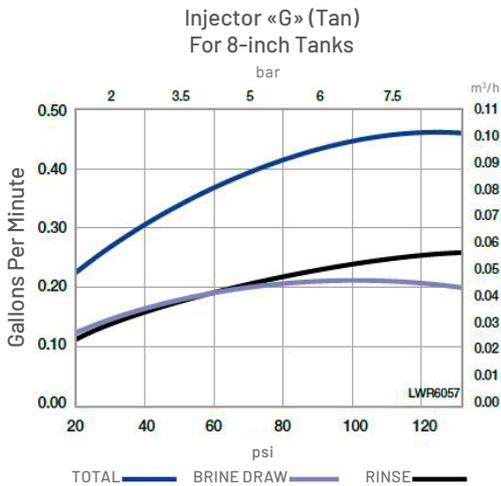
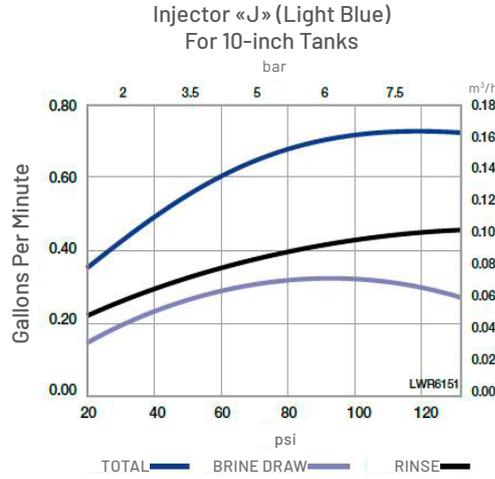
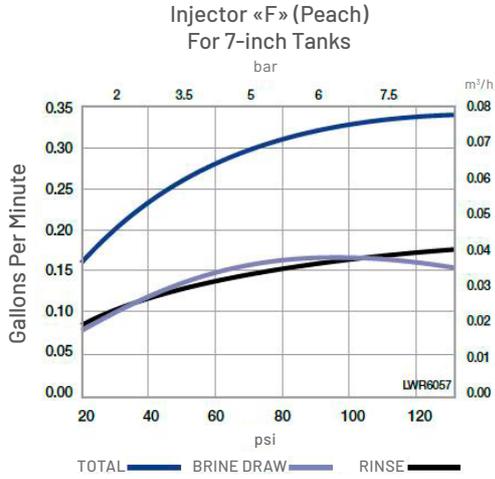
Backwash number*	Flow Rate (gpm)	Flow Rate (l/min)
7	1.2	4.5
8	1.6	6.1
9	2	7.6
10	2.5	9.5
12	3.5	13.2
13	4.1	15.5
14	4.8	18.2

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

**FLOW RATE VS PRESSURE DROP**



**INJECTOR\* PERFORMANCE**



\*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).