



TECHNICAL SHEET

AUTOTROL 255 CONTROL VALVE LOGIX SERIES





AUTOTROL 255 CONTROL VALVE - LOGIX SERIES



TIMER CHARACTERISTICS

740 Time Clock	742 Time Clock
<ul style="list-style-type: none"> • Electronic time clock (chronometric) • 1- or 99-day regeneration setting (days interval) or days of the week • High efficiency regeneration sequence • 12 V operation • Filter or conditioner setting in one control • Operates 255, 263, 268 with one controller 	<p>Same features as the 740 Time Clock, plus:</p> <ul style="list-style-type: none"> • Fully programmable cycle times • Salt setting in 10-grams increments • Optional no-salt detector • Operates 255, 263, 268, 278 and Magnum IT with one controller

760 Demand	762 Demand	764 Demand
<ul style="list-style-type: none"> • Electronic demand (volumetric) • Calendar override • 12 V operation • 28-day variable reserve • High efficiency regeneration sequence • Automatic capacity calculations • Operates 255, 263, 268 with one controller 	<p>Same features as the 760, plus:</p> <ul style="list-style-type: none"> • Fully programmable cycle times • Salt setting in 10-grams increments • Optional no-salt detector • Operates 255, 263, 268, 278, and Magnum IT with one controller 	<p>Same features as the 762, plus:</p> <ul style="list-style-type: none"> • 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)	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 application

TRANSFORMER – ALL CONTROLLERS

All Controllers require the use of a Pentair supplied transformer.

Transformer Output Voltage	12 VAC 150 mA
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 ³ /h (15.5 gpm)
Backwash @ 1.72 bar (25 psi) drop	1.36 m ³ /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 NPT or BSPT, female ¾ inch NPT or BSPT, male (thermoplastic) ½ inch NPT or BSPT, male (thermoplastic) ½ inch NPT or BSPT, male (thermoplastic)	Distributor Tube (diameter)	27 mm (1.050 inch) or 20.6 mm (⅞ inch)
Drain Line	½ inch (manifold dependent)	Distributor Tube (length)	29 mm ± 3 mm (1⅛ ± ⅛ inch) above top of tank

OPTIONS

Turbine for Demand Units

Standard manifold, 1-inch Autotrol Turbine

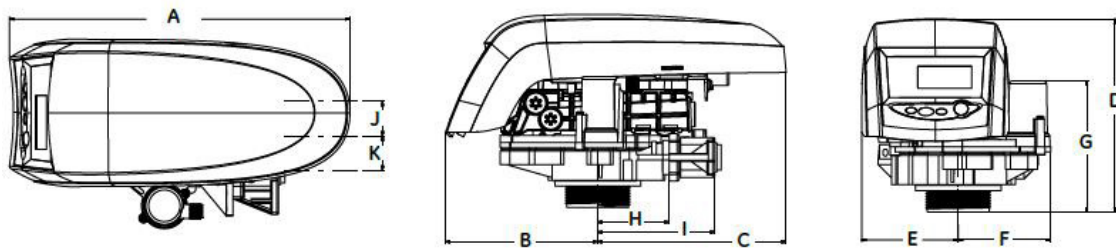
Bypass Valve

Thermoplastic, 1-inch flow path, 13mm (½ inch) NPT male, drain

Bypass Inlet-Outlet Fitting Kits:

- 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 NPT or BSPT Pipe Adapter 25 or 19 mm male (1 inch or ¾ inch)
- Stainless steel NPT or BSPT Pipe Adapter 25 or 19 mm male (1 inch or ¾ inch)
- Brine Refill Controls 0.33 gpm (1.25 Lpm) fixed
0.14 gpm (0.53 Lpm) fixed – optional for small tank applications

DIMENSIONS



Units	A	B	C	D	E	F	G	H	I	J	K
cm	37.8	16.8	20.8	21.3	10.7	10.2	14.5	7.9	13.0	3.8	3.8
inches	14.9	6.6	8.2	8.4	4.2	4.0	5.7	3.1	5.1	1.5	1.5

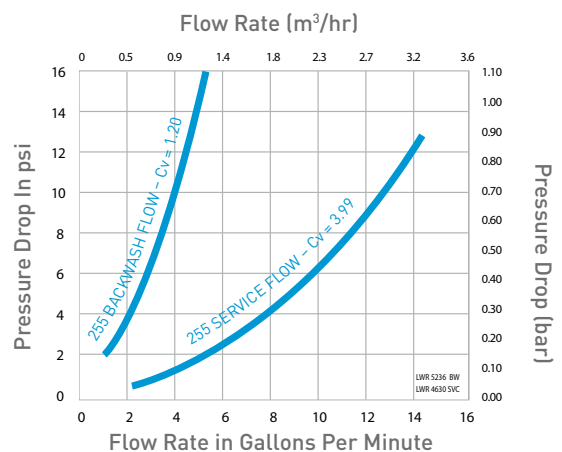
PERFORMANCE

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

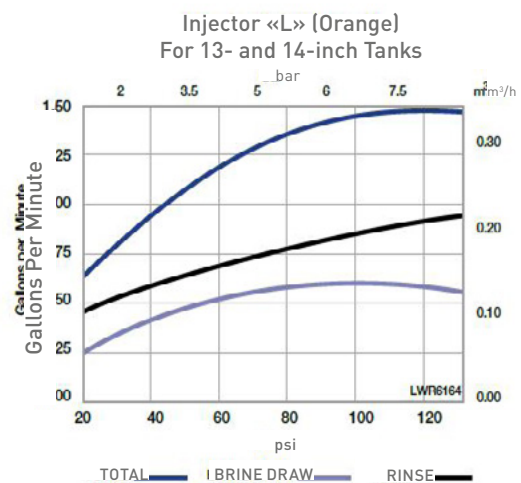
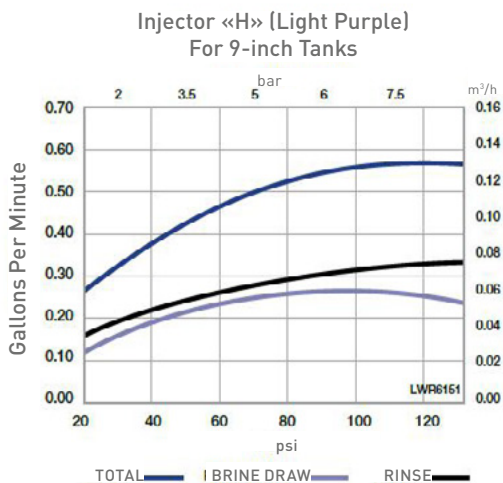
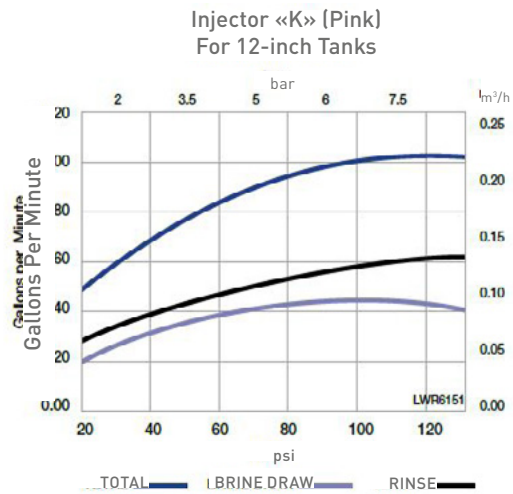
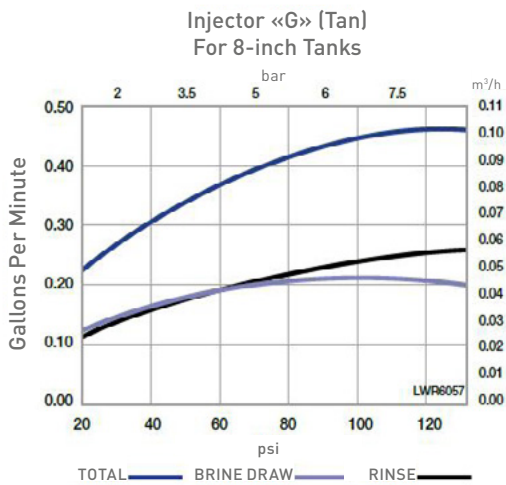
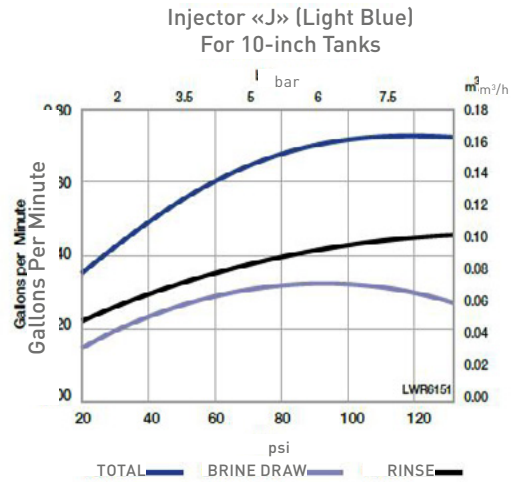
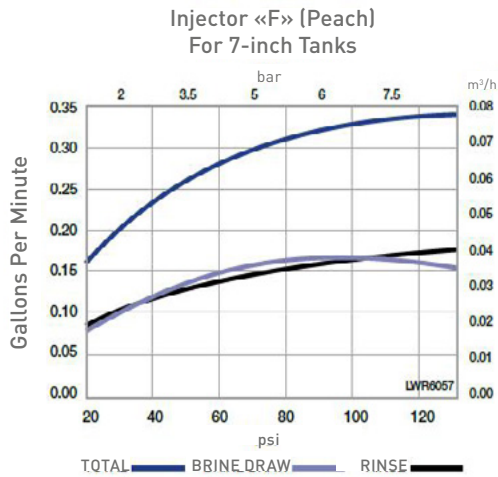
*Backwash flow controls sized for 5.0 sq. ft.

FLOW RATE VS PRESSURE DROP



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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