



## Specifications

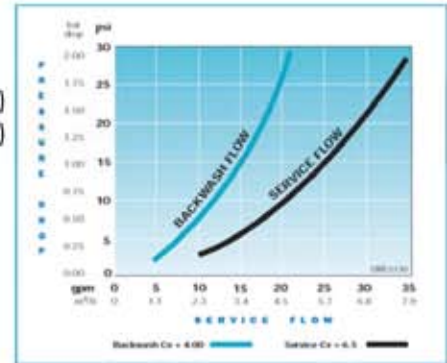


# LOGIX Series Controllers

Autotrol Performa CV Series Valve Specifications / Softener Configurations

### Flow Rates (Valve Only)

Service @ 1.03 bar drop	→	5.7 m <sup>3</sup> /h
Backwash @ 1.72 bar drop	→	4.5 m <sup>3</sup> /h
Service	→	Cv = 6.50 (Kv = 5.6)
Backwash	→	Cv = 4.00 (Kv = 3.5)



### Regeneration Operation

Controller Configuration	→	700 Series Electronic Controller
Softener Regeneration Configuration	→	5-cycle regeneration sequence
Softener Regeneration Sequence (278 Configuration)	→	Backwash, draw, slow rinse, fast rinse, refill, service (times programmable by installer)
Filter Regeneration Sequence (273 Configuration)	→	3 Cycles: backwash, fast rinse, service (times programmable by installer)

### Valve Connections/Dimensions

Tank Thread	→	2-1/2" - 8, male
Inlet/Outlet	→	1-3/4" - 12 UNC-2A male
Drain Line	→	NPT 3/4" male
Brine Line	→	NPT 3/8" male
Distributor Tube Diameter	→	1.050" (27mm)
Distributor Tube Length	→	1/2 +/- 1/2 " (13+/-13mm) above top of tank

### Design Specifications/Ratings

Valve Body	→	Glass-filled Noryl® - NSF listed material
Rubber Components	→	Compounded for cold water - NSF listed material
Valve Materials Certification	→	NSF/ANSI 44 rated component for material safety
Weight (Valve with Control)	→	2.42 kg
Recommended Operating Pressure	→	1.38 - 8.27 bar
Canada	→	1.38 - 6.89 bars
Hydrostatic Test Pressure	→	20.69 bars
Water Temperature	→	2 - 38°C
Ambient Temperature*	→	2° - 48.9°C



\*Recommended use of outdoor cover for direct sunlight applications



## Options

Turbine for Demand Systems	→	Internal standard Autotrol 1" (25 mm) turbine
Bypass Valve, Model 1265	→	Noryl, 1" flow path
<b>Bypass Fitting Kits:</b>		
Copper, Sweat Tube Adapter	→	1-1/4", 1" or 3/4" (32mm, 25mm or 19mm)
CPVC, Solvent Weld Tube Adapter	→	1" or 3/4" (25mm or 19mm)
Plastic NPT Pipe Adapter	→	1" male or 3/4" male (25mm or 19mm)
Plastic BSPT Pipe Adapter	→	1" male or 3/4" male (25mm or 19mm)
Brass NPT Pipe Adapter	→	1" male or 3/4" male (25mm or 19mm)
Brass BSPT Pipe Adapter	→	1" male or 3/4" male (25mm or 19mm)
Brine Refill Controls	→	4,92 L/min fixed (1,3 gpm)
Compatible with Regenerants/Chemicals	→	Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite, sodium hydroxide, hydrochloric acid chlorine and chloramines

## Logix 700 Series Controller

### ELECTRICAL SPECIFICATIONS

Controller Operating Voltage	→	12 V - AC (Requires use of provided transformer)
Input Supply Frequency	→	50 or 60 Hz (Controller configuration dependent)
Motor Input Voltage	→	12 V - AC
Electronics Operating Voltage	→	3,5 V - AC
Control System Power Consumption	→	3 Watts average

### TRANSFORMER SPECIFICATIONS

*All Logix Series Controllers require the use of a Pentair Water supplied transformer.*

Transformer Output Voltage	→	12 V - AC 150 mA
Transformer Input Options	→	115 V - AC 50/60 Hz
	→	230 V - AC 50/60 Hz
	→	100 V - AC 50/60 Hz
Transformer Plug Options	→	Indoor North American Plug
		Outdoor North American (UL Listed for outdoor use)
		Japanese Plug
		Taiwan/Korea Plug
		Australian Plug
		United Kingdom Plug
		Mainland Europe Plug
		Additional transformers may be available - call for more information

## Available Logix 700 Series Controller Models

### 742 →

C&I electronic time-clock controller for single filter or softener applications up to 36" diameter tanks (Performa Cv = 14" to 21"), with fully programmable cycle times.

### 762 →

C&I electronic metered-demand (volumetric) controller for single or twin-tank filter or softener applications up to 36" diameter tanks (Performa Cv = 14" to 21"), with fully programmable cycle times.





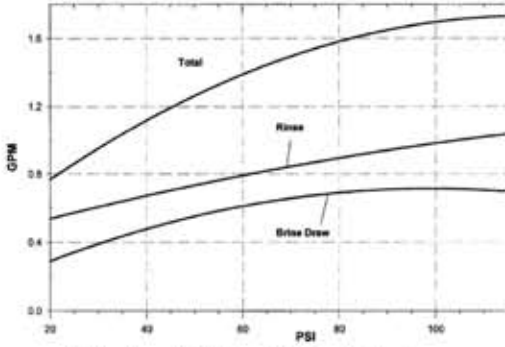
## Logix Controller Feature Availability

FEATURE	742	762
Regeneration Type	Time Clock	Demand (volumetric)
Filter Capability	3 or 5-cycle	3 or 5-cycle
Multiple Tank Capability	Single tank	Single tank
Calendar Override	Day of week or up to 99-day override	99-day override
Manual Regeneration	Immediate delayed and double immediate	Immediate delayed and double immediate
Adjustable Regeneration Time	Yes	Yes
Cycle Times	Fully programmable	Fully programmable
Remote-mount Faceplate	Up to 12 m away	Up to 12 m away
Adjustable Salt Amount	Fully adjustable	Fully adjustable
3-cycle Filter Control Capability	Fully programmable	Fully programmable
5-cycle Regeneration Sequence	Standard	Standard
Adjustable Consumer Lock-out	Standard	Standard
Dry Contact Signal Input	Standard (programmable)	None
Super Capacitor Time/Date Back-up	24-hour	24-hour
Reserve Type	Not available	Variable or fixed (Reserved option)
Maintenance Interval Signal Feature	Standard	Standard
Capacity Remaining Display	Not Available	Standard
99-year EEPROM Memory Retention	Standard	Standard
Water Usage Display	Not available	Standard
Displays Current Flow Rate	Not available	Standard

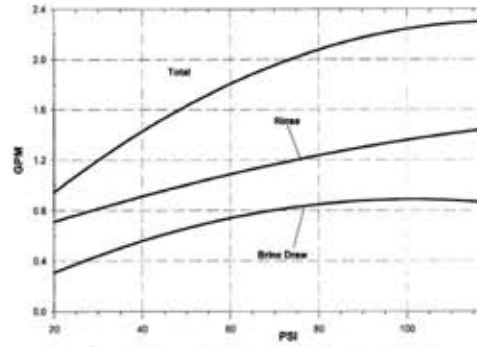


## Injector Performance

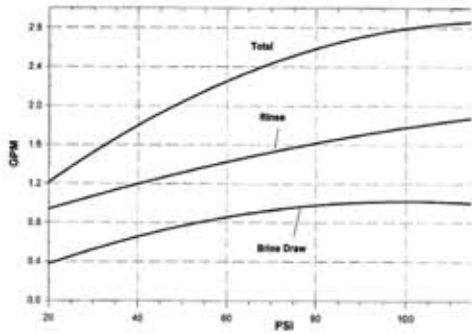
Injector "M" for 14-inch Tanks



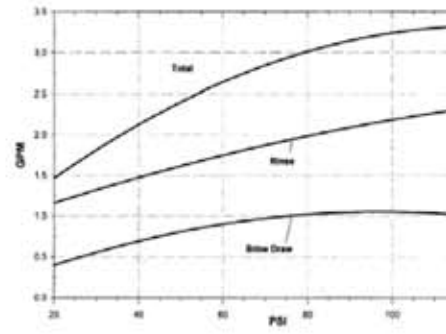
Injector "N" for 16-inch Tanks



Injector "Q" for 18-inch Tanks



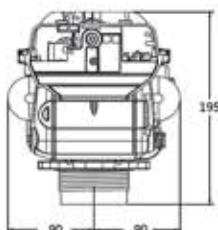
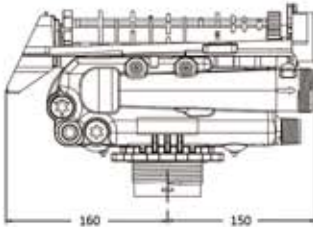
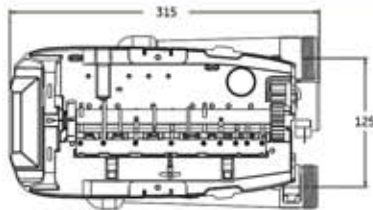
Injector "R" for 21-inch Tanks



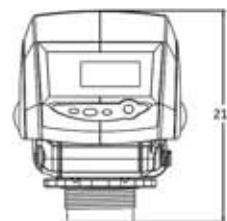
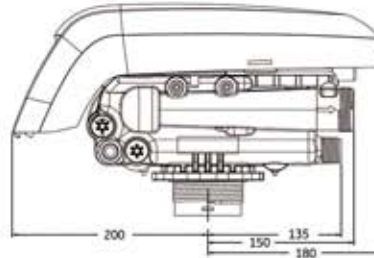
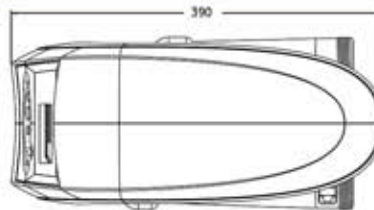
## Backwash Flow Control Table for Softener

Vessel Diameter	14	16	18	21
Flow Rate (L/Min)	18.5	26	34	45
Flow Rate (gpm)	4.9	7	9	12

## External Dimensions of the Valve



Performa valve with standard Logix controller  
Dimensions (mm)



Dimensions Performa Valve with  
a Logix cover (mm)