



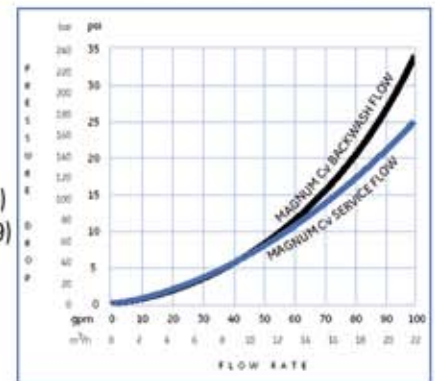
Specifications



Magnum Cv & IT Valve

Flow Rates (Valve only)

Service @ 1.03 bar drop	→	17.3 m ³ /hr
Backwash @ 1.72 bar drop	→	20.2 m ³ /h
Service	→	Cv = 19.50 (Kv = 17)
Backwash	→	Cv = 17.8 (Kv = 19.9)
Drain Line Flow Controls	→	5-40 gpm



Valve Connections/Dimensions

Tank Thread	→	4-inch 8 UN
Inlet/Outlet (Magnum IT)	→	2-inch: connections NPT or BSPT, CPVC
Inlet/Outlet (Magnum Cv)	→	1.5-inch: connections NPT or BSPT, CPVC
Brine Line	→	3/4-inch NPT
Drain Line	→	1.5 inch: connections for NPT or BSPT, Female, CPVC
Riser Tube Diameter	→	1.5 inch
Riser Installation	→	Above top of tank 16 mm (+/- 3 mm)
Pilot Drain and Auxiliary Hydraulic Output	→	1/4-inch tube fitting

Design Specifications/Ratings

Valve Body	→	Noryl
O-rings	→	EPDM
Injector	→	7 sizes available: 14, 16, 18, 21, 24, 30, 36
Working Pressure	→	1.72 bar – 6.9 bar
Water Temperature	→	2-38°C, 49°C Ambient

Mount

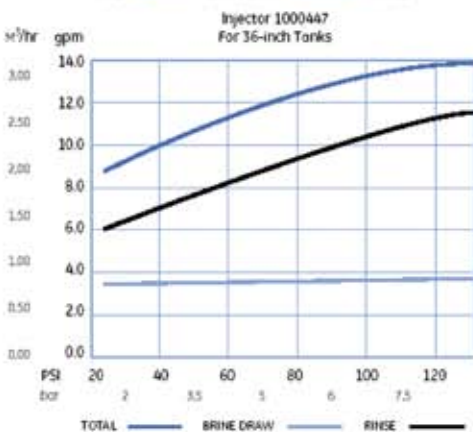
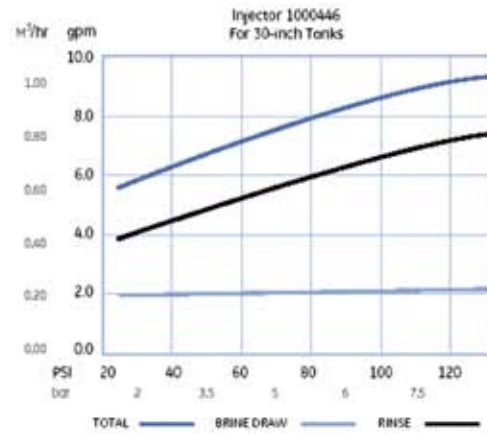
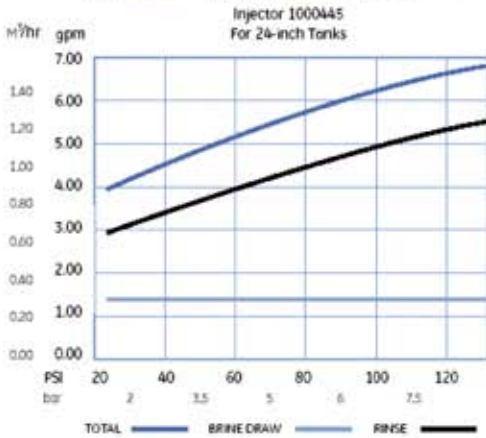
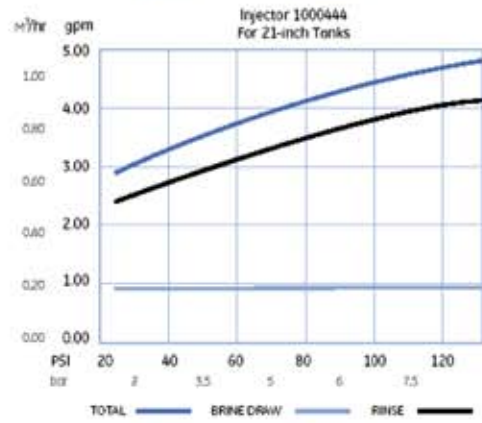
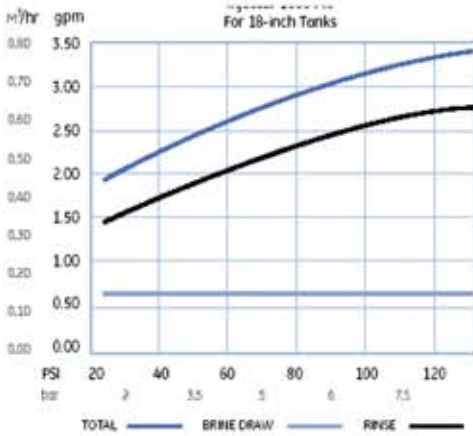
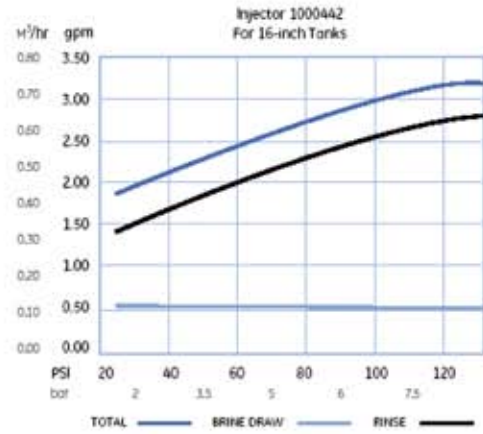
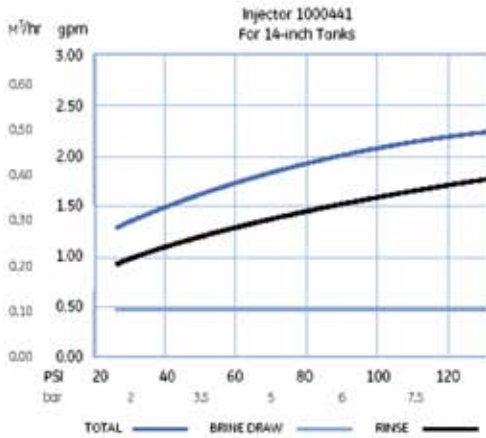
Top Mount or Side Mount Configuration.



Magnum Cv & IT Valve



Injector Performance – Magnum Cv & IT



Note: Brine draw and rinse rates on empty tank



Flow Sensor Option

Internal Turbine Unit

Normal Operating Range	→	0.45 – 18.1 m ³ /h (2 – 80 gpm)
Peak Operating Range	→	0.22 – 22.7 m ³ /h (1 – 100 gpm)
Normal Accuracy Range	→	+/- 3%



External Flow Meter – 2.0 Inch

Normal Operating Range*	→	0.50 – 51.0 M ³ /h (2,0 – 225 gpm)
Normal Accuracy Range	→	+/- 3%
Connections	→	2 – inch: connections NPT or BSPT, Female, CPVC



Logix Controllers

The Logix Series offers the ultimate in control for the Magnum valves. Simplex 3-step programming and installation makes this electronic controller the industry leader.

- All – electronic control platform
- 24 – hour super-capacitor backup – no battery necessary
- Remote mount kit allows programming module to be installed up to 12 m away
- Universal controller – works on all Autotrol brand valves
- Automatic capacity calculations – no math or salt tables necessary
- 12 – Volt operation



742 Time Clock

- Simple, economic electronic time clock (chronometric)
- Regeneration by days of the week or by days interval
- Filter or conditioner setting in one control
- Fully programmable cycle times
- Salt setting from 50 g/l to 290 g/l
- Operates 255, 263, 268, 278, and Magnum with one controller

762 Demand

- Simple, economic electronic demand (volumetric Calendar override – 99 day)
- Calendar override – 99 day
- 28 – day variable reserve
- Filter or conditioner setting in one controller
- Automatic capacity calculations
- Fully programmable cycle times
- Salt setting in 1 – pound increments (lbs/cu ft)
- Operates 255, 263, 268, 278, and Magnum IT with one controller



Electrical Specifications

Controller operating Voltage	→	12 Volt – AC (Requires use of Pentair Water supplied transformer)
Input Supply Frequency	→	50 or 60 Hz (Controller configuration dependent)
Motor Input Voltage	→	12 Volt - AC
Electronics Operating Voltage (Logix Series)	→	3,5 Volt - AC
Control System Power consumption	→	3 Watts average

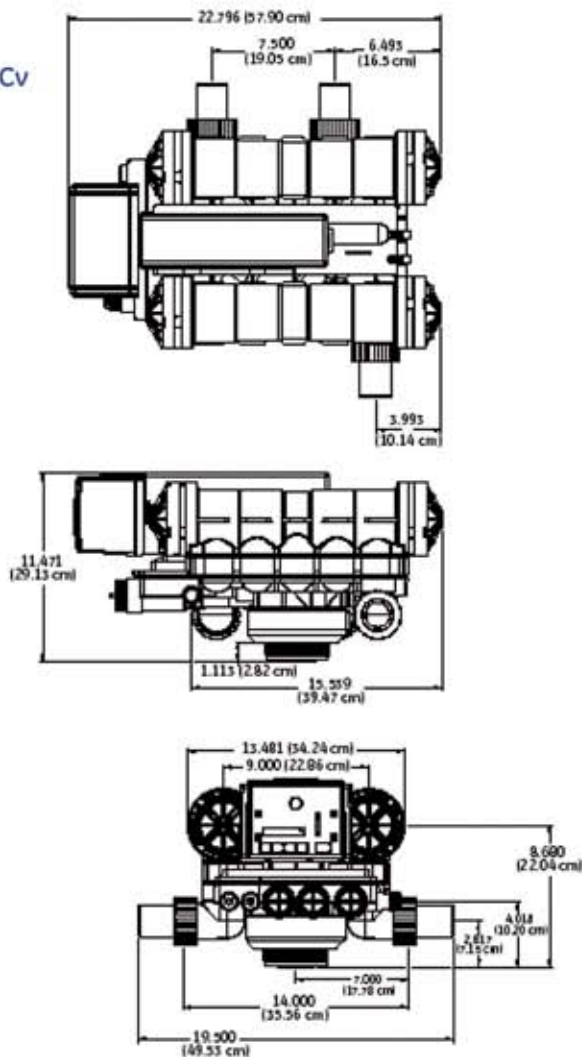
Transformer Specifications

All controllers require the use of a Pentair Water supplied transformer

Transformer Output Voltage	→	12 Volt – AC 150mA
Transformer Input Options	→	115 Volt – AC 50/60 Hz, 230 Volt – AC 50/60Hz, 100 Volt, AC 50/60Hz
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

Magnum Cv & IT Valve Outline Dimensions

1.5" Magnum Cv



2" Magnum IT

