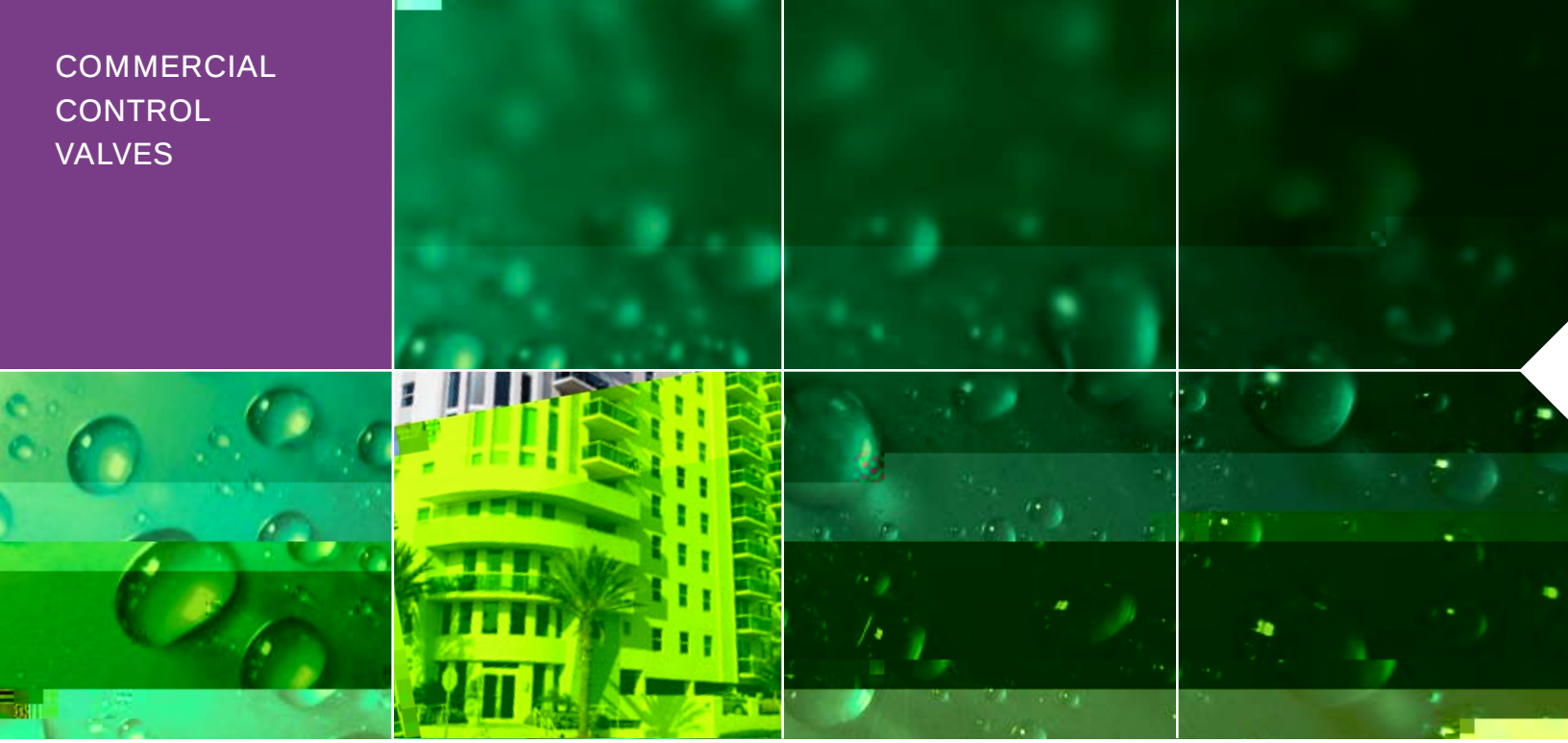
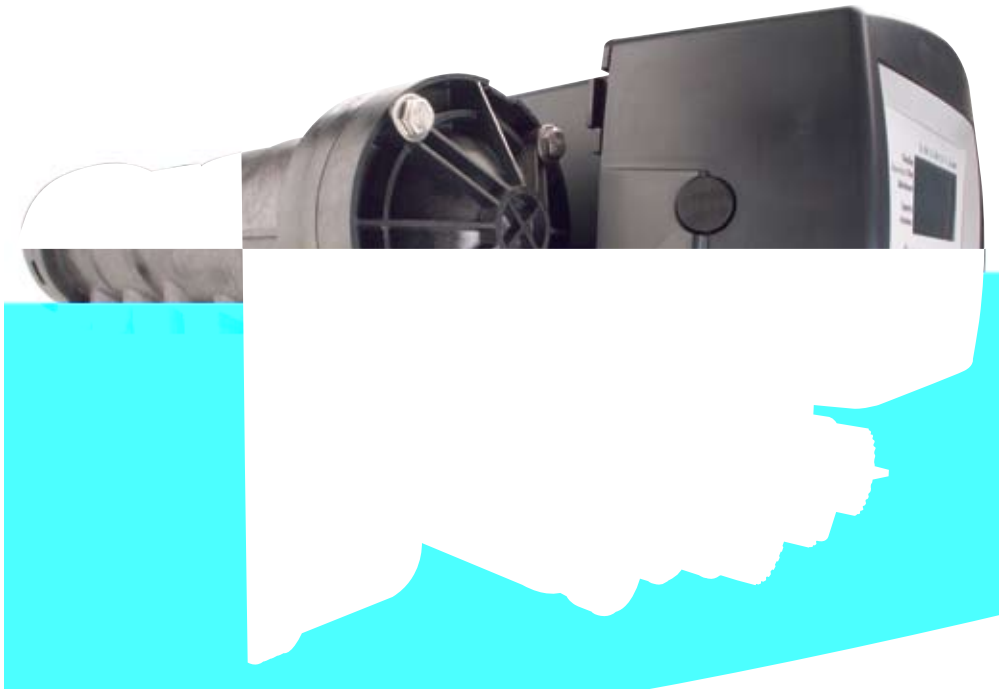
COMMERCIAL
CONTROL
VALVES



Magnum® Control Valve



Pentair Water

COMMERCIAL
CONTROL
VALVES

Magnum® Control Valve

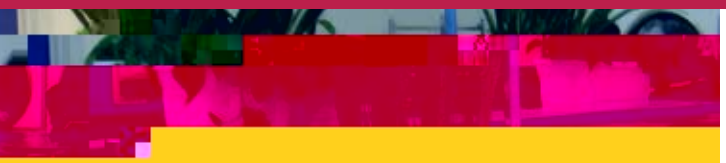
Controller Options

The Pentair Water Magnum Control Valve is one of the most versatile valves on the market.

Logix™ Series

- All-electronic control platform
- 24-hour super-capacitor backup – no battery necessary
- Remote mount kit allows programming module to be installed up to 40 feet away
- Universal controller – works on all Autotrol brand valves
- Automatic capacity calculations – no math or salt tables necessary
- 12-volt operation

The Logix series offers the ultimate in control for the Magnum valve. Simple 3-step programming and installation makes this electronic controller the industry leader.



742 Time Clock

- Simple, economic electronic time clock (chronometric)
- 7- or 99-day regeneration settings
- Filter or conditioner setting in one control
- Fully programmable cycle times
- Salt setting in 1-pound increments (lbs/cu ft)
- Single controller operates Autotrol 255, 263, 268, 278 models, and Pentair Water Magnum and Magnum IT with one controller

762 Demand

- Simple, economic electronic demand (volumetric)
- 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

764 Demand

Same features as the 762, plus:

- Multi-tank applications (twin alternating, multi-tank parallel)
- Control lockout
- Remote regeneration

Flow Rates (Valve Only)

Service @ 15 psi (1.03 bar) drop	76 gpm (17.3 m^3/hr)
Backwash @ 25 psi (1.72 bar) drop	89 gpm (20.2 m^3/hr)
Service	Cv = 19.5 (Kv = 17)
Backwash	Cv = 17.8 (Kv = 19.9)

Valve Connections/Dimensions

Tank Thread	4-inch 8 UN
Inlet/Outlet	2-inch: connections NPT or BSPT, Female, CPVC
Brine Line	3/4-inch NPT
Drain Line*	1-1/2-inch: connections for NPT or BSPT, Female, CPVC
Riser Tube Diameter	1-1/2-inch
Riser Installation	Above top of tank 5/8-inch (±1/8-inch)
Pilot Drain and Auxiliary Hydraulic Output	1/4-inch tube fitting

*Valve installed drain flow controls available (5 – 40 gpm). If higher backwash flow is needed, an external flow control will be required.

Design Specifications/Ratings

Valve Body	Thermoplastic
O-rings	EPDM
Injector	7 sizes available: 14, 16, 18, 21, 24, 30, 36
Working Pressure	25 psi – 100 psi (1.72 bar – 6.9 bar)
Water Temperature	35° – 100°F (2° – 38°C), 120°F (49°C) Ambient

Options

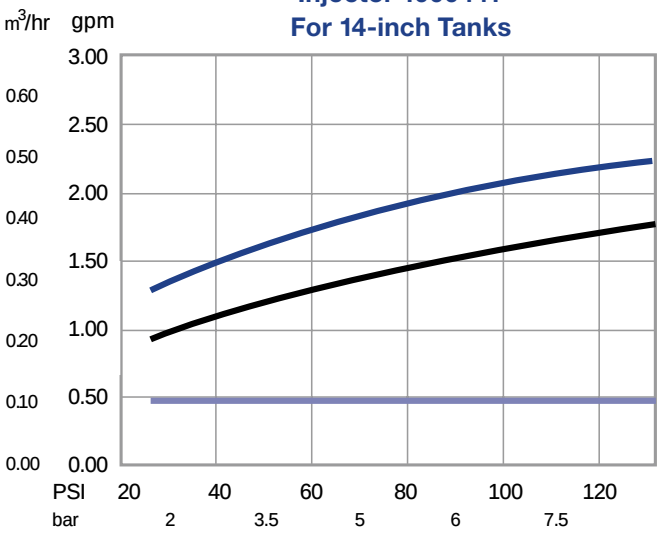
Top Mount or Side Mount Configuration

Pentair

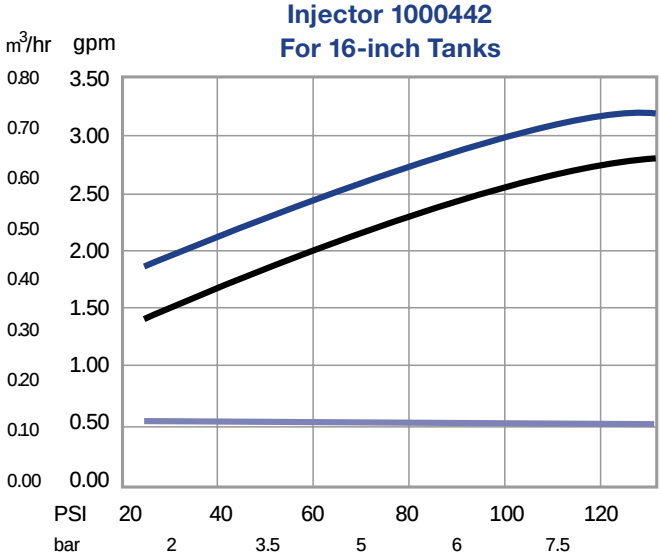
Magnum® Control Valve

Injector Performance – Magnum

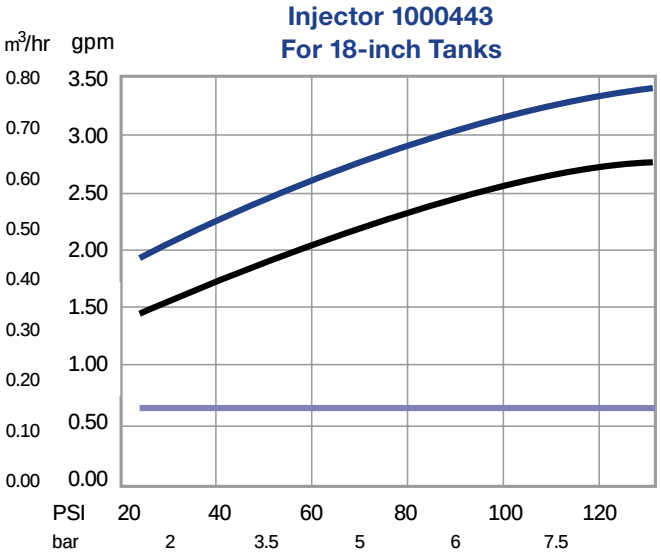
Injector 1000441
For 14-inch Tanks



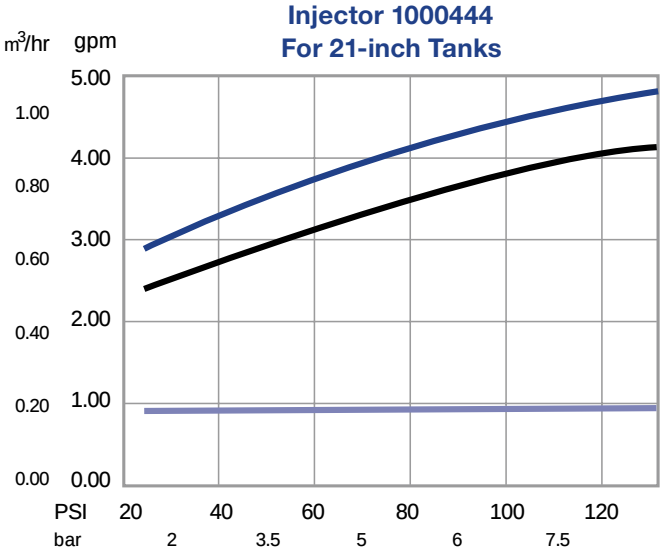
Injector 1000442
For 16-inch Tanks



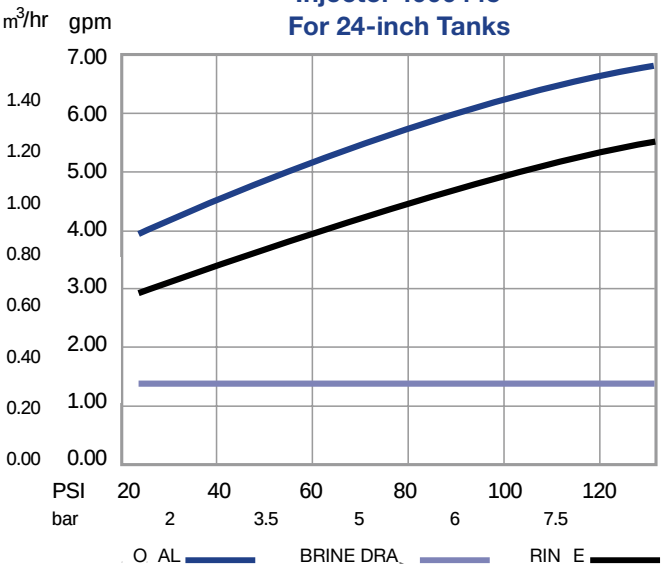
Injector 1000443
For 18-inch Tanks



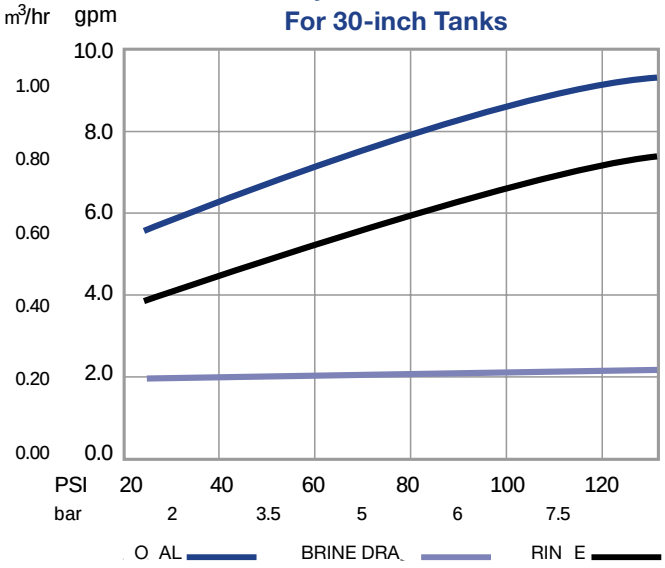
Injector 1000444
For 21-inch Tanks



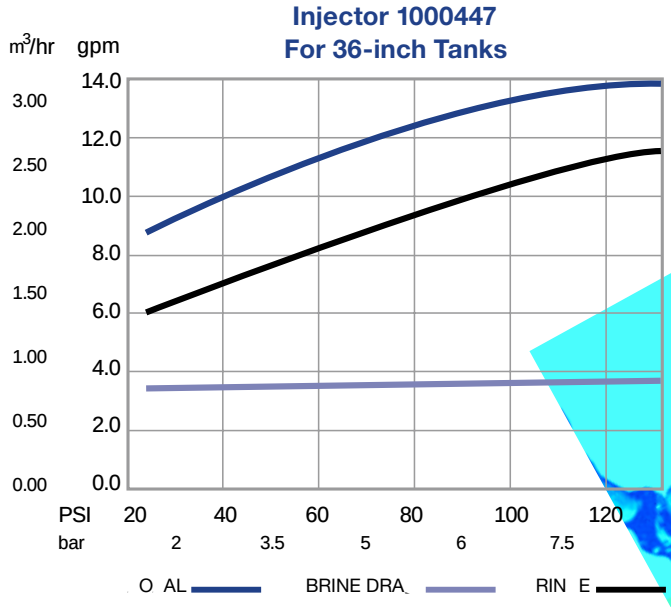
Injector 1000445
For 24-inch Tanks

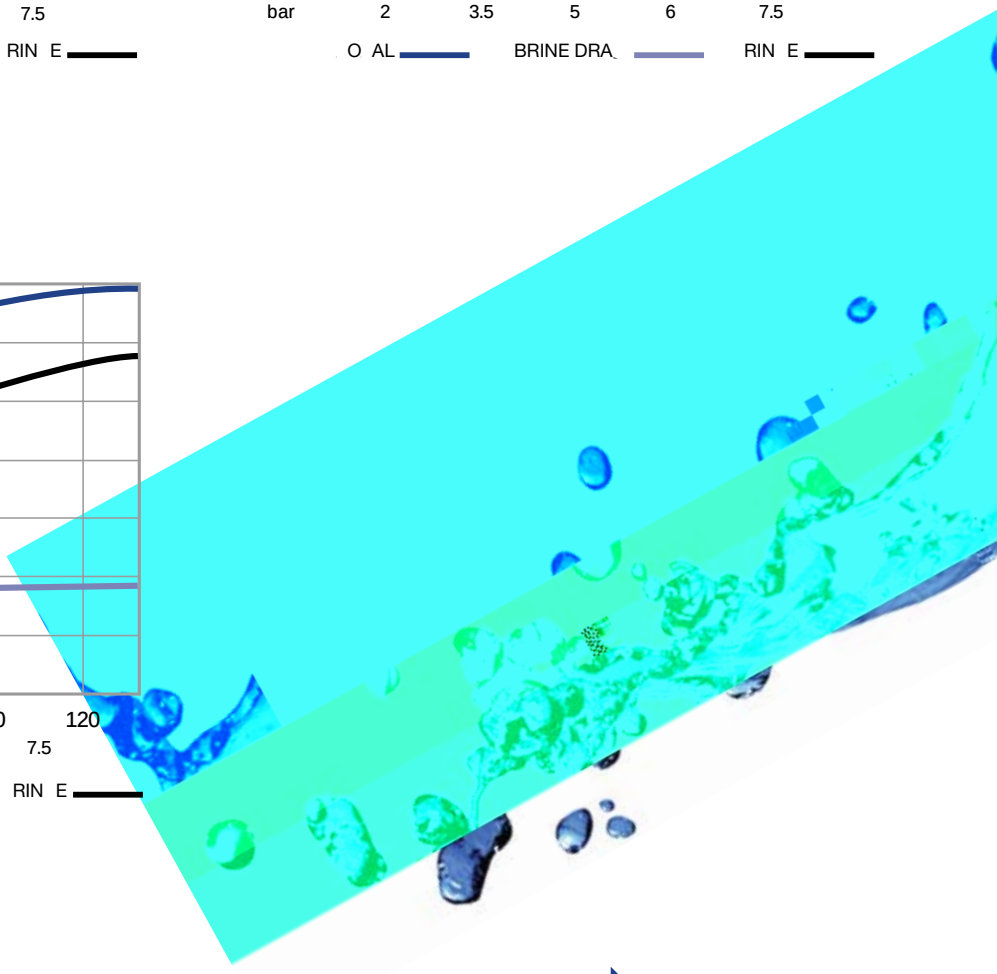


Injector 1000446
For 30-inch Tanks



Injector 1000447
For 36-inch Tanks

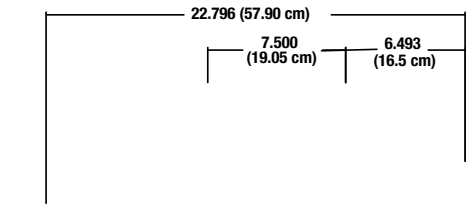




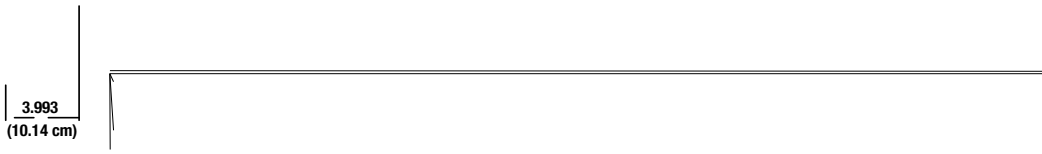
NOTE: Brine draw and rinse rates on empty tank.

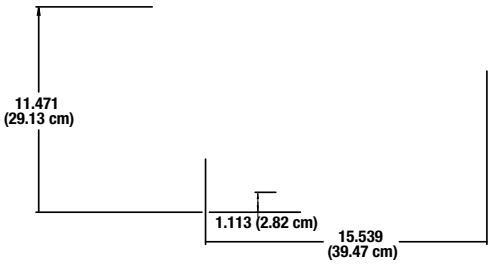
Pentair
W

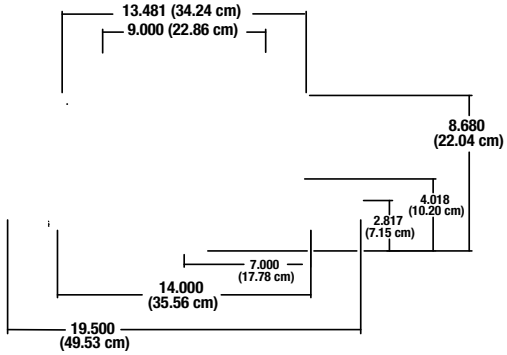
1-1/2-inch Magnum Cv



2-inch Magnum IT







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