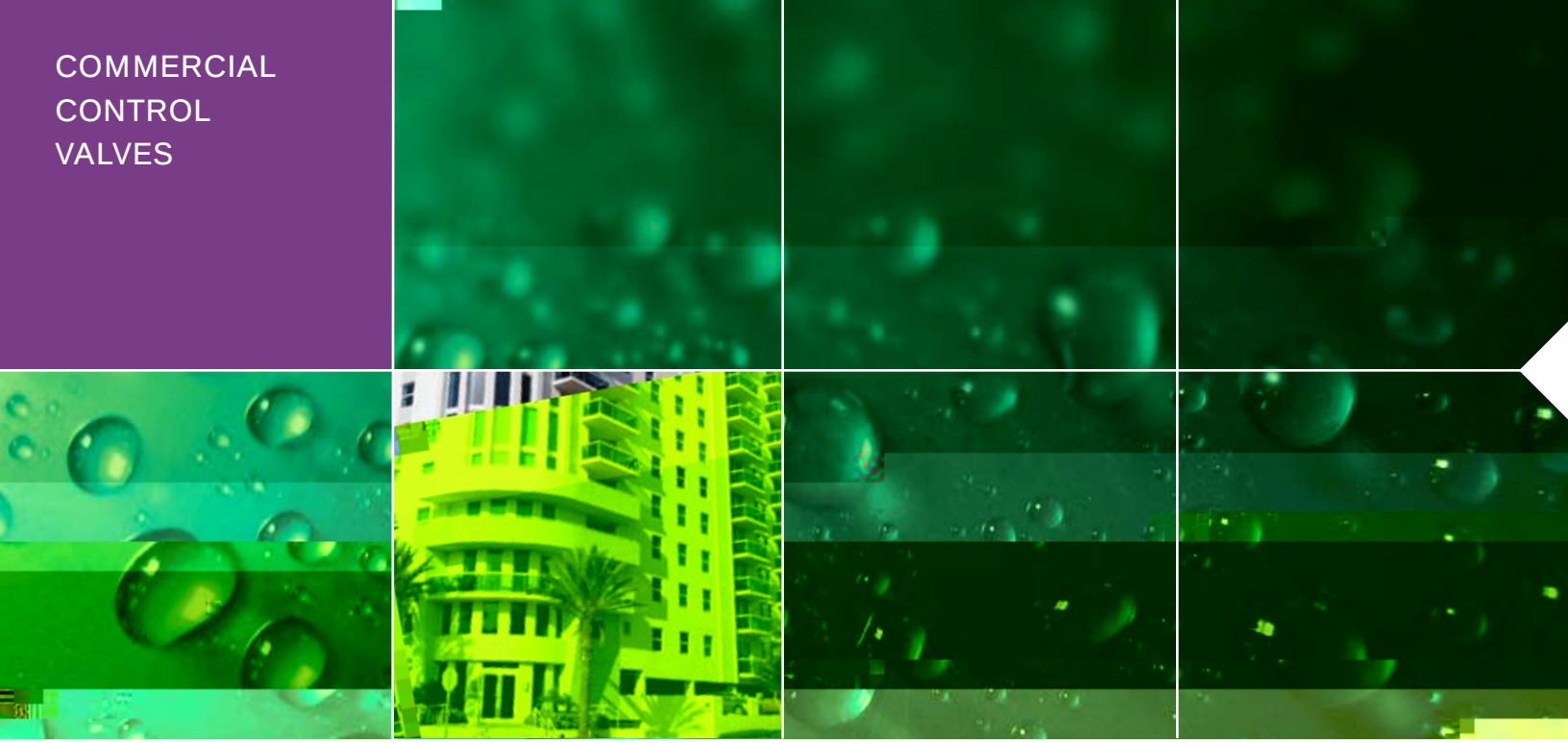
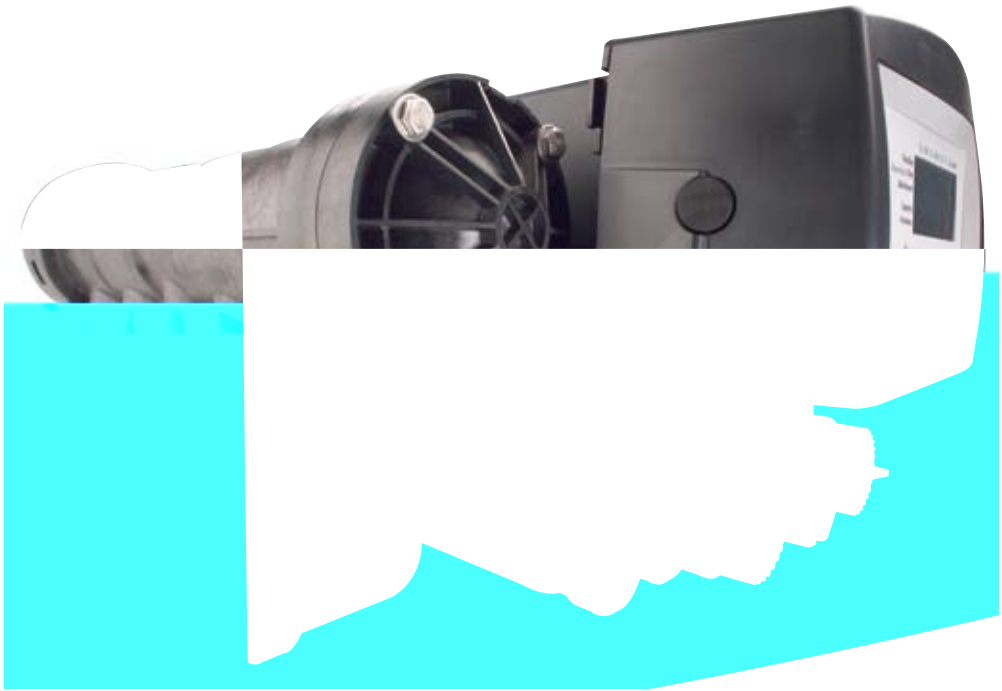
COMMERCIAL
CONTROL
VALVES



# Magnum® Control Valve



Pentair Water

COMMERCIAL
CONTROL
VALVES

# Magnum® Control Valve

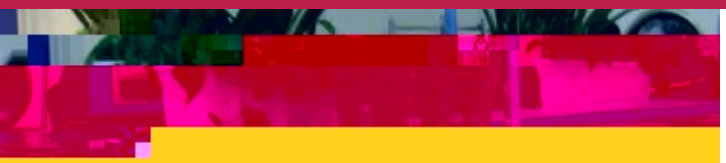
## Controller Options

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

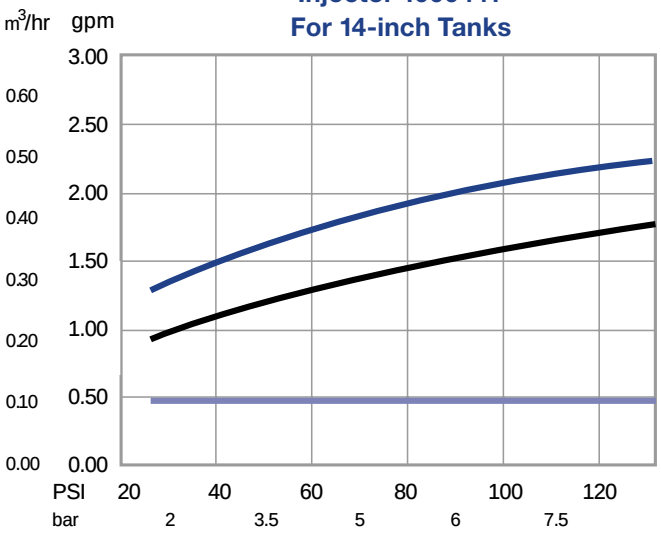
Top Mount or Side Mount Configuration

Pentair

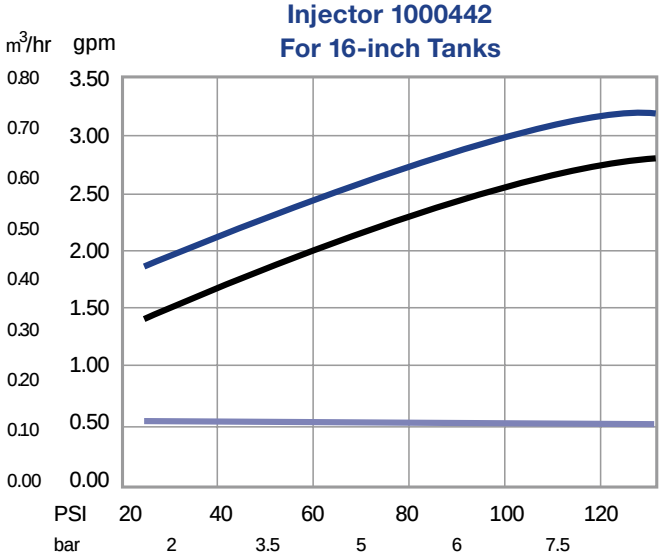
# Magnum® Control Valve

## Injector Performance – Magnum

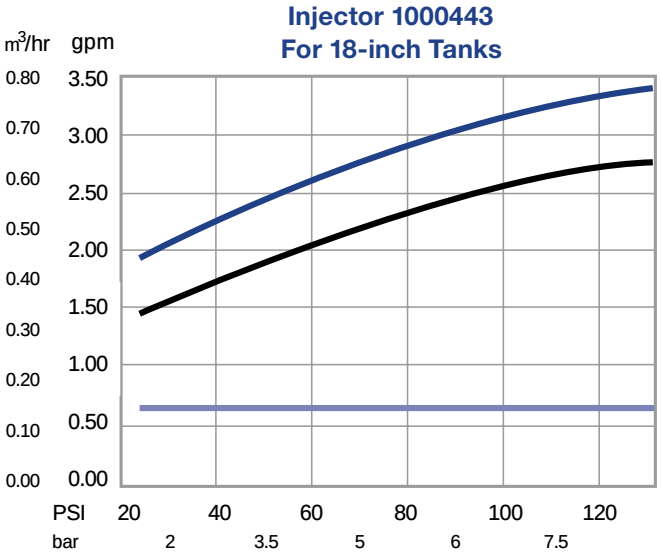
### Injector 1000441
### For 14-inch Tanks



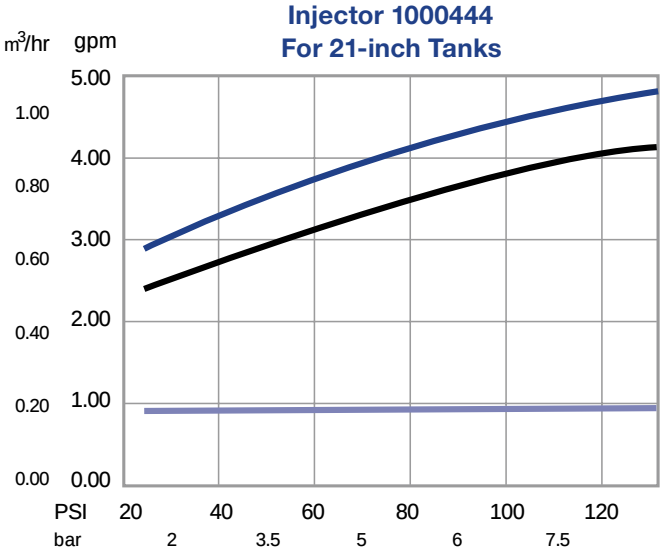

### Injector 1000442
### For 16-inch Tanks



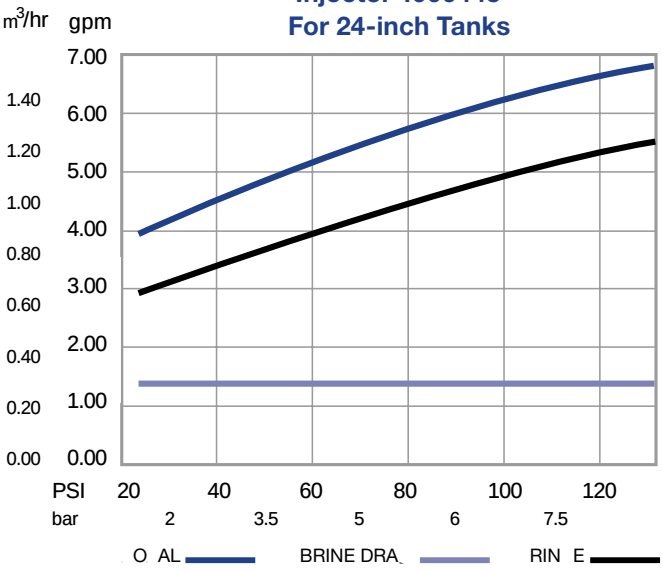

### Injector 1000443
### For 18-inch Tanks



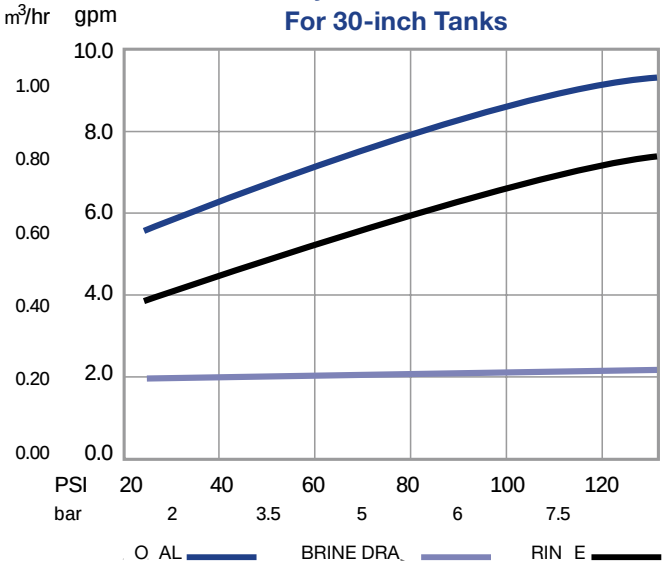

### Injector 1000444
### For 21-inch Tanks



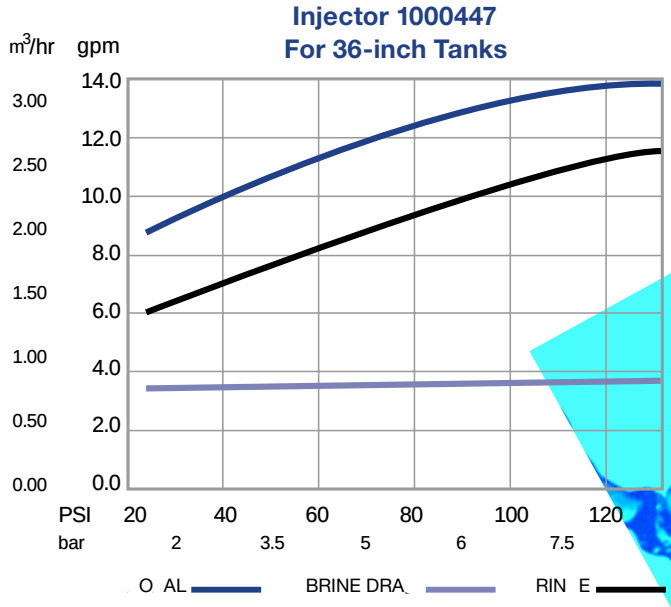
## Injector 1000445
## For 24-inch Tanks

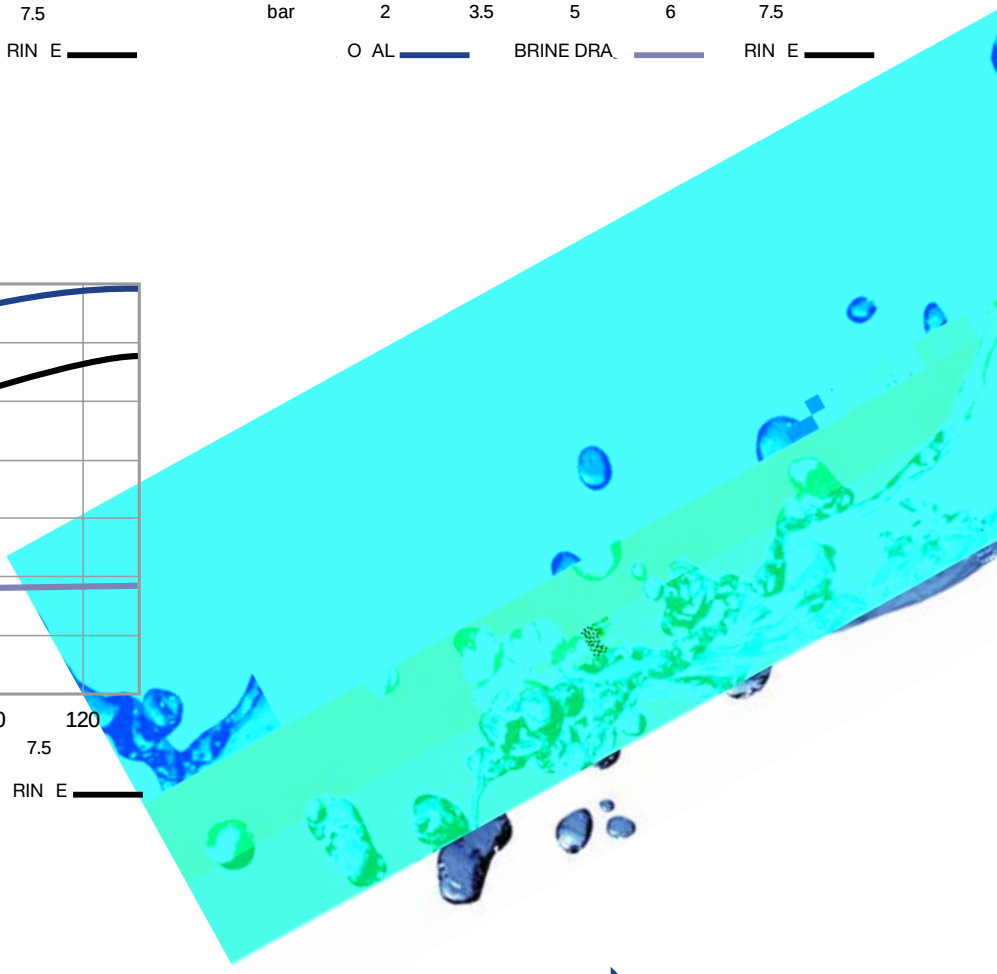



## Injector 1000446
## For 30-inch Tanks




## Injector 1000447
## For 36-inch Tanks

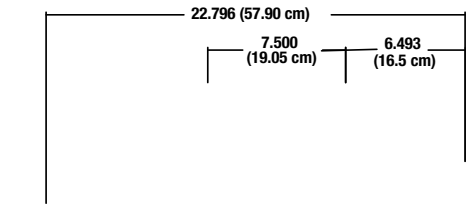


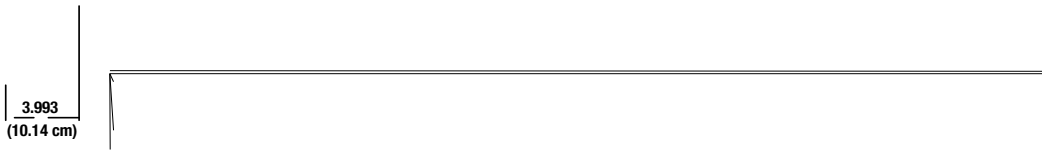
**NOTE: Brine draw and rinse rates on empty tank.**

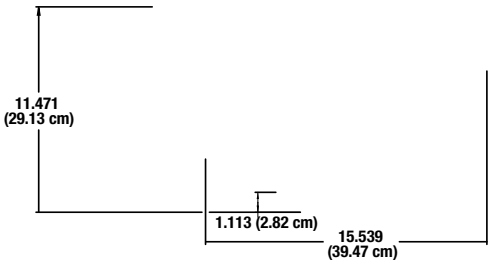
Pentair
W

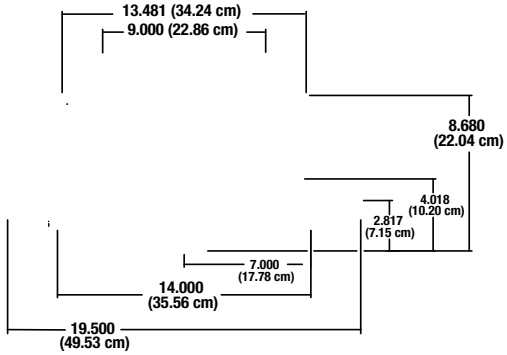
## 1-1/2-inch Magnum Cv




## 2-inch Magnum IT



Pentair Water

20580 Enterprise Avenue
Brookfield, WI 53045
Tel: 262.784.4490
Fax: 262.784.7794

5730 North Glen Park Road
Milwaukee, WI 53209
Tel: 262.238.4400
Fax: 262.238.4402

Customer Care: 800.279.9404 www.pentairwatertreatment.com

©2010 Pentair Residential Filtration, LLC
1017972 Rev F FE10