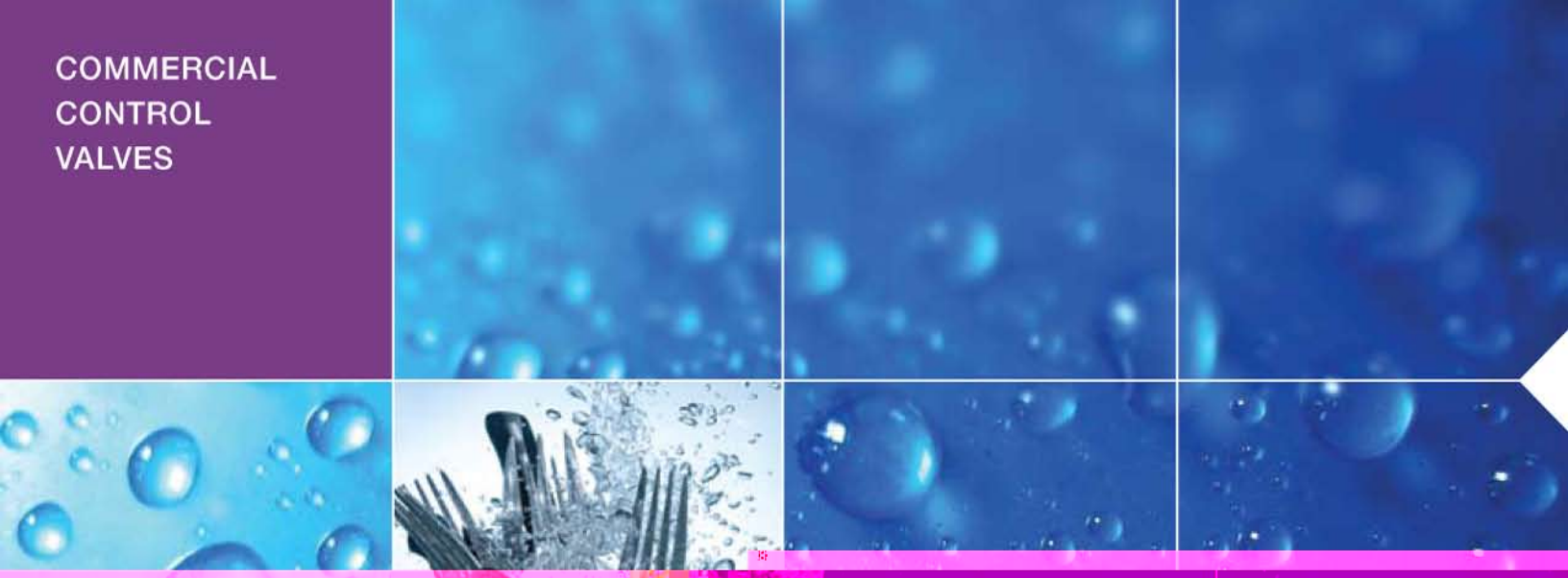
COMMERCIAL
CONTROL
VALVES



Performa™ Cv Control Valves

273 and 278 Configurations

Pentair Water® offers a full range of Autotrol® Control Valves to meet a wide range of water conditioning applications.

Logix™ Series

742 Time Clock

- Simple, economic electronic time clock (chronometric)
- 7- or 99-day regeneration setting
- 12-volt operation
- Filter or conditioner setting in one control
- Fully programmable cycle times
- Salt setting in 1-pound increments
- Operates 255, 263, 268, 273, 278, and Magnum IT with one controller

762 Demand

- Simple, economic electronic demand (volumetric)
- Calendar override
- 12-volt operation
- 28-day variable reserve
- Automatic capacity calculations
- Fully programmable cycle times
- Salt setting in 1-pound increments
- Operates 255, 263, 268, 273, 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 [illegible]

Autotrol

COMMERCIAL CONTROL VALVES

Performa™ CV Control Valves

273 and 278 Configurations

Specifications

Electrical

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
Controller System Power Consumption	3[illegible] Watts average

Transformer – All Controllers

All Controllers require the use of a Pentair Water-supplied transformer.

Transformer Output Voltage	12 Volt – AC 400mA
Transformer Input Options	115 Volt – AC 50/60 Hz 230 Volt

Sodium chloride, potassium chloride, potassium permanganate, sodium

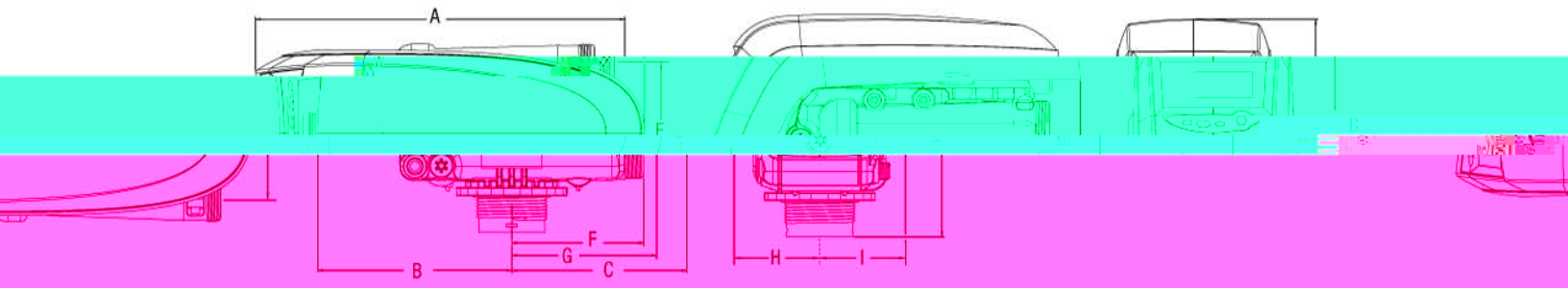
Compatible with Regenerants/Chemicals

Dimensions

Valve Connections

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

Outline Dimensions



	A	B	C	D	E	F	G	H	I
s	14.9	7.8	7.1	8.5	5.0	5.3	5.8	3.4	3.4
	37.8	19.9	17.9	21.5	12.7	13.5	14.8	8.7	8.7

Units
inche
cm

Performance

Flow Rates (Valve O

Service

nly)

Backwash @ 25 psi (1.72 bar) drop	20.0 gpm (4.5 m³/h)
Service	Cv = 6.50 (Kv = 5.6)
Backwash	Cv = 4.00 (Kv = 3.5)

Logix™ Series Controller Flow Rate Characteristics

Backwash Flow C

ontrol Table

(lpm)
8.3
10.2
14.76
17.0
20.0

5.0 gpm/ft².

number	(gpm)
9	2.2
10	2.7
12	3.9
13	4.5
14	5.3

*Backwash flow controls sized fo

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, [illegible] this injector data was based on empty tank line resin.

20580 Enterprise Avenue
Brookfield, WI 53045
Tel: 262.784.4490

5730 North Glen Park Road
Milwaukee, WI 53209
Tel: 262.23[illegible]

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