

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
- Fully programmable cycle times
- Salt saving

762 Demand

764 Demand



CONTROL VALVES

Electrical

Controller Operating Voltage	12 Volt - AC. Requires use of Puritan Water supplied transformer.
Input Supply Frequency	60 or 50 Hz. Controller will function on either.
Transformer	See below for transformer information.

Transformer Selection Information

All Control valves require use of a transformer to operate properly.

Transformer Input Voltage	Transformer Output Voltage	Transformer Output Current
120VAC	12VAC	1.25A
240VAC	12VAC	0.625A
240VAC	12VAC	0.3125A
240VAC	12VAC	0.15625A

*Additional transformer may be required for larger flow applications.

Design Specifications/Ratings

Valve Body	Glass-filled thermoplastic – NSF Listed material
Rubber Components	Compounded for cold water – NSF Listed material
Valve Materials Certification	WQA Gold Seal Certified to ORD0002 and NSF/ANSI 44 Rated component for material safety

Weight (Valve with Controller) 4 lbs (2.42 kg)

Recommended Operating Pressure	20 - 120 psi (1.38 - 8.27 bar)
Canada	20 - 100 psi (1.38 - 6.89 bar)
Hydrostatic Test Pressure	300 psi (20.69 bar)
Water Temperature	35° - 100°F (2° - 38°C)
Ambient Temperature*	35° - 120°F (2° - 48.9°C)

*Recommend use of outdoor cover for direct sunlight applications.

Options

Internal Standard Autotrol® 1-inch (25 mm) turbine	Turbine
Thermoplastic, 1-inch flow path	Bypass
Fitting Kits:	Bypass
Sweat Tube Adapter	Copper
1-1/4-inches, 1-inch or 3/4 inch (32 mm, 25 mm or 19 mm)	CPVC,
Solvent Weld Tube Adapter	Plastic
1-inch or 3/4-inch (25 mm or 19 mm)	Stainless
NPT or BSPT Pipe Adapter	1-inch male or 3/4-inch male (25 mm or 19 mm)
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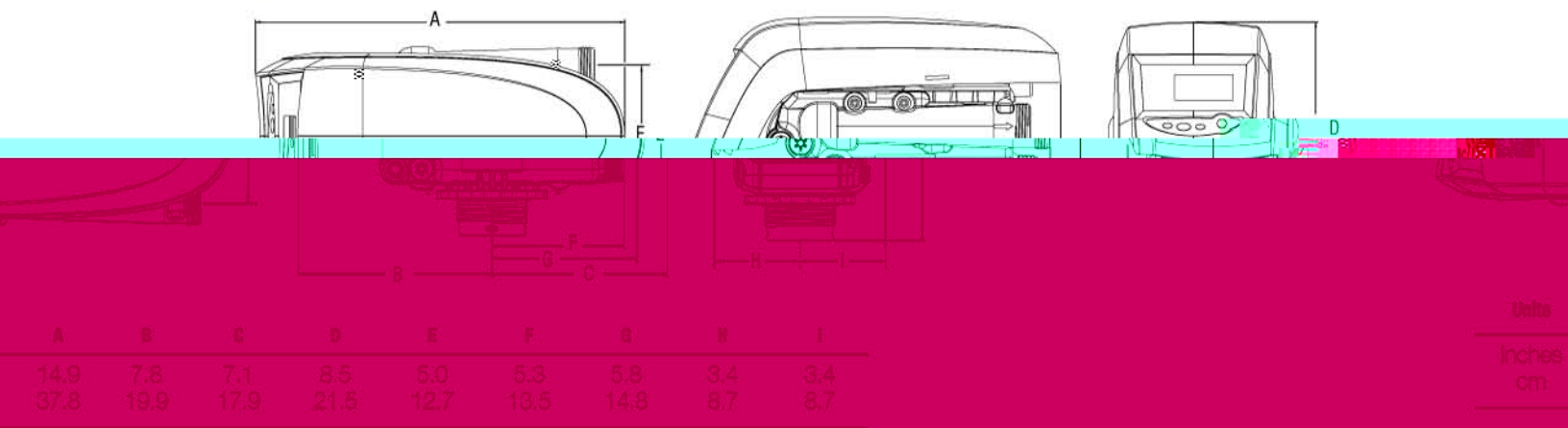


Dimensions

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



Performance

Flow Rates (Valve On)

Service

Backwash @ 25 psi (1.72 bar) drop	20.0 gpm (4.5 m ³ /h)
Service	Cv = 6.50 (Kv = 5.6)
Backwash	Cv = 4.00 (Kv = 3.5)

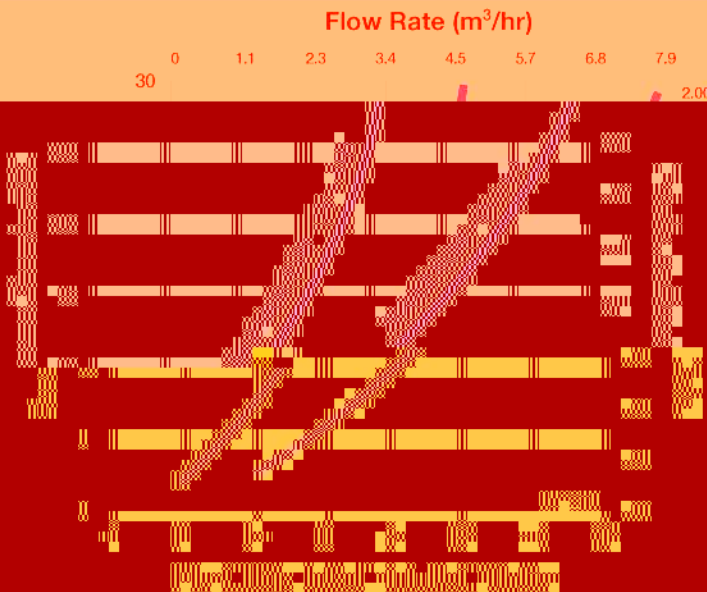
Control Table

Flow Rate
(gpm)

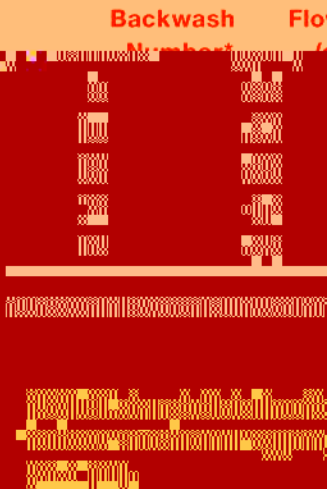


Flow Rate
(m³/hr)

Logix™ Series Controller Flow Rate Characteristics



Backwash Flow Characteristics



Injector* Performance
Logix™ Series Controllers



Injector "H" (Light Purple)
For 9-inch Tanks

Injector "J" (Light Blue)
For 10-inch Tanks

Injector "H" (Light Purple)
For 9-inch Tanks



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