



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

Logix™ Series

740 Time Clock

- Simple, economic electronic time clock (chronometric)
- 7- or 99-day regeneration setting
- High efficiency regeneration
- 12-volt operation
- Filter or conditioner setting in one control
- Operates 255, 263, 268 with one controller

742 Time Clock

Same features as the 740 Time Clock, plus:

- Fully programmable cycle times
- Salt setting in 1-pound increments
- · Optional no-salt detector
- Operates 255, 263, 268, 278, and Magnum® IT with one controller

760 Demand

- · Simple, economic electronic demand (volumetric)
- Calendar override
- 12-volt operation
- 28-day variable reserve
- High efficiency regeneration sequence
- Automatic capacity calculations
- Operates 255, 263, 268 with one controller

762 Demand

Same features as the 760, plus:

- Fully programmable cycle times
- Salt setting in 1-pound increments
- Optional no-salt detector
- Operates 255, 263, 268, 278, and Magnum IT with one controller

764 Demand

Same features as the 762, plus:

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



Specifications

Electrical

Controller Operating Voltage 12 Volt - AC (Requires use of Pentair Water®-supplied transformer)

50 or 60 Hz (Controller configuration dependent) Input Supply Frequency

Motor Input Voltage 12 Volt - AC Controller System Power Consumption 3 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 - AC 50/60 Hz; 100 Volt - AC 50/60 Hz

Transformer Plug Options Taiwan/Korea Plug Indoor North American Plug

Outdoor North American

(UL Listed for outdoor use) Japanese Plug

(11)

Australian Plug United Kingdom Plug

Mainland Europe Plug ()

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Additional transformers may be available - call for more information.

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 ORD 0902 and NSF/ANSI 44 Rated component for material safety

Weight (Valve with Control) 4 lbs (1.8 kg)

20 - 120 psi (1.38 - 8.27 bar) Recommended Operating Pressure Canada 20 - 100 psi (1.38 - 6.89 bar)

Hydrostatic Test Pressure 300 psi (20.69 bar) 35° - 100°F (2° - 38°C) Water Temperature 35° - 120°F (2° - 48.9°C) Ambient Temperature*

Options

Turbine for Demand Units Standard manifold, 1-inch Autotrol® Turbine

Bypass Valve Thermoplastic, 1-inch flow path, 1/2-inch (13mm) NPT male, drain

Bypass Inlet-Outlet Fitting Kits:

Copper, Sweat Tube Adapter 1-inch or 3/4-inch (25 mm or 19 mm) CPVC, Solvent Weld Tube Adapter 1-inch or 3/4-inch (25 mm or 19 mm)

Plastic NPT or BSPT Pipe Adapter 1-inch male or 3/4-inch male (25 mm or 19 mm) Stainless steel NPT or BSPT Pipe Adapter 1-inch male or 3/4-inch male (25 mm or 19 mm)

Brine Refill Controls .33 gpm (1.25 Lpm) fixed

.14 gpm (.53 Lpm) fixed - optional for small tank applications

Compatible with Regenerants/Chemicals Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite[†], sodium hydroxide[†], hydrochloric acid[†], chlorine^{††} and chloramines^{††}

Dimensions

Valve Connections

Tank Thread 2-1/2-inches - 8, male Brine Line 1/4-inch or 3/8-inch NPT, male;

air check built into valve

Inlet/Outlet Manifold 1-inch NPT or BSPT, female (brass or 3/4-inch NPT or BSPT, female Distributor Tube 1.050 inches (27 mm) or thermoplastic) 3/4-inch NPT or BSPT, male (thermoplastic) (diameter) 13/16-inch (20.6 mm)

1/2-inch NPT or BSPT, male (thermoplastic) Distributor Tube 1-1/8 ± 1/8 inches (29 mm ±

1/2-inch (manifold dependent) (length) 3 mm) above top of tank

Performance

Drain Line

Flow Rates (Valve Only)

Service @ 15 psi (1.03 bar) drop 15.5 gpm (3.52 m³/h) Backwash @ 25 psi (1.72 bar) drop 6.0 gpm (1.36 m³/h) Service Cv = 3.99 (Kv = 3.4)Backwash Cv = 1.20 (Kv = 1.0)

Note: Tested with a 3/4-inch brass manifold

^{*}Recommend use of outdoor cover for direct sunlight applications.

[†]See owners manual for specific concentrations. ††Valve for use on potable water supply.