

5810 CONTROL VALVE



TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 44 for Water Softener Performance.



TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 372 for Lead Free Compliance.



UL recognized to the 979



TESTED EMC and Low Voltage Directive



Restriction of Hazardous Substance Compliant

FEATURES • BENEFITS

- ◆ Fiber-reinforced polymer valve body for superior strength and durability; non-corrosive, and UV-resistant
- ◆ Continuous service flow rate of 36 GPM with a backwash rate of 28 GPM
- ◆ Backwash capability accommodates softener tanks and filters up to 21" in diameter
- ◆ Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment
- ◆ Time-tested, hydraulically-balanced piston for service and regeneration
- ◆ Optical sensor for precision cycle positioning
- ◆ Soft water refill for a cleaner brine tank
- ◆ Designed with double backwash for reduced hardness leakage
- ◆ Diagnostics for historical valve performance
- ◆ Programming stored in memory and will not be lost due to power outages

Remote Monitoring Technology

- ◆ WiFi connectivity allows user to view system status and receive push alerts (XTRi only)*

CONFIGURATIONS • OPTIONS

- ◆ Filter or softener control valves
- ◆ Downflow co-current or upflow counter-current regeneration
- ◆ Plumbing connections in 3/4" to 1-1/4" NPT, BSP, Sweat, and CPVC
- ◆ Fiber-reinforced polymer, high-flow bypass valve
- ◆ Variable reserve for increased efficiency
- ◆ Programmable regeneration types for increased flexibility

- ◆ Three color bezel options: black, blue, and silver

TIMER OPTIONS

- ◆ **XTRi** - Premium touch screen LCD display with the ability to connect to Pentair Home and Pentair Pro apps via WiFi*
- ◆ **XTR2** - Premium touch screen LCD display with two programmable relay outputs for both normally opened and normally closed contacts

- ◆ **SXT** - Large LCD display with one programmable relay output for both normally open and normally closed contacts

* Please visit pentair.com/connectedsoftener for more information on Pentair Home and Pentair Pro apps.

VALVE SPECIFICATIONS

| | |
|----------------|---|
| Valve Material | Fiber-reinforced polymer |
| Inlet/Outlet | 3/4", 1", or 1-1/4" NPT, BSP, Sweat, CPVC |
| Cycles | 5 |

FLOW RATES (50 PSI INLET) – VALVE ALONE

| Piston | Downflow | Upflow | Filter |
|--------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
| Continuous (15 psi drop) | 36 GPM 8.2 m ³ /hr | 35 GPM 7.9 m ³ /hr | 31 GPM 7.0 m ³ /hr |
| Peak (25 psi drop) | 47 GPM 10.6 m ³ /hr | 45 GPM 10.1 m ³ /hr | 40 GPM 9.0 m ³ /hr |
| Cv) (flow at 1 psi drop) | 9.4 | 8.9 | 8.0 |
| Max. Backwash (25 psi drop) | 28 GPM 6.3 m ³ /hr | 30 GPM 6.9 m ³ /hr | 33 GPM 7.5 m ³ /hr |

REGENERATION

| | |
|-------------------|-------------------|
| Downflow/Upflow | Both |
| Adjustable Cycles | Yes |
| Timers Available | |
| SXT: | 0 - 199 min/cycle |
| XTR2/XTRi: | 0 - 240 min/cycle |

METER INFORMATION

| | |
|----------------------|--|
| Meter Accuracy | |
| 1-1/4" Turbine: | 2 - 40 GPM ± 5% (0.45 - 9 m ³ /h) |
| Meter Capacity Range | |
| SXT: | 1 - 999,900 gal (0 - 3,785 m ³) |
| XTR2/XTRi: | 1 - 9,999,999 gal (0 - 378,541 m ³) |

DIMENSIONS

| | |
|----------------------------|---|
| Distributor Pilot | 1.05" O.D. (26.7 mm) 32 mm O.D. 1.315" O.D. (33.4 mm) |
| Drain Line | 3/4" or 1" NPT Quick Connect |
| Brine Valve 1600: | 3/8" or 1/2" |
| Injector System | 1610 |
| Mounting Base | 2.5" - 8 NPSM |
| Height from Top of Tank | 11.3" (287 mm) |
| Riser Height | 1/4" Below top of tank |

TYPICAL APPLICATIONS

| | |
|----------------|---|
| Water Softener | 8 - 21" Diameter |
| Filters | 8 - 21" Diameter based on 10 GPM/ft ² |

ADDITIONAL INFORMATION

| | |
|---------------------------|---------------------------------|
| Electrical Rating | 12 Volts DC |
| Estimated Shipping Weight | 11 lbs (4.99 kg) |
| Pressure | |
| Hydrostatic: | 300 psi (20 bar) |
| Working: | 20 - 125 psi (1.4 - 8.5 bar) |
| Temperature | |
| Cold Water Valve: | 34 - 110°F (1 - 43°C) |



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