

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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