

FLECK 5810 CONTROL VALVE

HIGH PERFORMANCE FLEXIBLE 1" VALVE

**MADE IN THE
USA**
OF FOREIGN & DOMESTIC PARTS



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 of 28 GPM

Backwash capability accommodates softener tanks up to 21" and filters up to 21" in diameter

Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment system

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

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 of black, blue, and silver

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



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

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 |
| Time Available | |
| SXT: | 0 - 199 min/cycle |
| XTR2: | 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: | 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 |
| 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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