



# FLECK 5812 CONTROL VALVE

HIGH PERFORMANCE FLEXIBLE 1-1/4" VALVE



## FEATURES/BENEFITS

Fiber-reinforced polymer valve body for superior strength and durability, non-corrosive, and UV-resistant

Continuous service flow rate of 45 GPM with a backwash of 35 GPM

Backwash capability accommodates softener tanks up to 24" and filters up to 24" 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, and sweat

Fiber-reinforced polymer high-flow bypass valve

Variable reserve for increased efficiency

Programmable regeneration types for increased flexibility

Two color bezel options of black or blue

**XTR2-** Premium touch screen LCD display with two programmable relay outputs for both normally opened and normally closed contacts

**SXT-** Large LCD display and user-selectable time clock or metered function; usable for filtration and softener systems

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/<br>BSP/Sweat |
| Cycles         | 5                                     |

## FLOW RATES (50 PSI INLET) – VALVE ALONE - 2.5" BASE

| Piston                         | Downflow                          | Upflow                            | Filter                            |
|--------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Continuous<br>(15 psi drop)    | 43 GPM<br>9.9 m <sup>3</sup> /hr  | 39 GPM<br>8.9 m <sup>3</sup> /hr  | 37 GPM<br>8.4 m <sup>3</sup> /hr  |
| Peak<br>(25 psi drop)          | 56 GPM<br>12.7 m <sup>3</sup> /hr | 51 GPM<br>11.9 m <sup>3</sup> /hr | 47 GPM<br>10.7 m <sup>3</sup> /hr |
| Cv<br>(flow at 1 psi drop)     | 11.2                              | 10.1                              | 9.4                               |
| Max. Backwash<br>(25 psi drop) | 33 GPM<br>7.5 m <sup>3</sup> /hr  | 36 GPM<br>8.1 m <sup>3</sup> /hr  | 45 GPM<br>9.9 m <sup>3</sup> /hr  |

## FLOW RATES (50 PSI INLET) – VALVE ALONE - 4" BASE

| Piston                         | Downflow                          | Upflow                            | Filter                            |
|--------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Continuous<br>(15 psi drop)    | 45 GPM<br>10.3 m <sup>3</sup> /hr | 40 GPM<br>9.1 m <sup>3</sup> /hr  | 38 GPM<br>8.7 m <sup>3</sup> /hr  |
| Peak<br>(25 psi drop)          | 59 GPM<br>13.3 m <sup>3</sup> /hr | 52 GPM<br>11.7 m <sup>3</sup> /hr | 50 GPM<br>11.3 m <sup>3</sup> /hr |
| Cv<br>(flow at 1 psi drop)     | 11.7                              | 10.3                              | 9.9                               |
| Max. Backwash<br>(25 psi drop) | 34 GPM<br>7.8 m <sup>3</sup> /hr  | 36 GPM<br>8.2 m <sup>3</sup> /hr  | 45 GPM<br>10.2 m <sup>3</sup> /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%<br>[0.45 - 9 m <sup>3</sup> /h]    |
| Meter Capacity Range |                                                    |
| SXT:                 | 1 - 999,900 gal<br>[0 - 3,785 m <sup>3</sup> ]     |
| XTR2:                | 1 - 9,999,999 gal<br>[0 - 378,541 m <sup>3</sup> ] |

## DIMENSIONS

|                            |                                                         |
|----------------------------|---------------------------------------------------------|
| Distributor Pilot          | 1.05" O.D. (26.7 mm)<br>32 mm I.D.<br>1" I.D. (25.4 mm) |
| Drain Line                 | 1.5" NPTF<br>Quick-Connect                              |
| Brine Valve                |                                                         |
| 1600:                      | 3/8"                                                    |
| Injector System            | 1610                                                    |
| Mounting Base              | 2.5" - 8 NPSM<br>4" - NPSM                              |
| Height from<br>Top of Tank | 12" (305 mm)                                            |
| Riser Height               | 1/4" Below top of tank                                  |

## TYPICAL APPLICATIONS

|                |                                                     |
|----------------|-----------------------------------------------------|
| Water Softener | 8 - 24" diameter                                    |
| Filters        | 8 - 24" diameter<br>based on 10 GPM/ft <sup>2</sup> |

## ADDITIONAL INFORMATION

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



### PENTAIR WATER QUALITY SYSTEMS

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