

# FLECK® 3150 2-INCH CONTROL VALVE

HIGH PROGRAMMABILITY FOR COMMERCIAL/INDUSTRIAL FILTER AND SOFTENER APPLICATIONS



## FEATURES/BENEFITS

Lead-free brass valve body for superior strength and durability

Continuous service flow rate of 95 GPM with a backwash of 105 GPM

Backwash capability accommodates softener tanks up to 63" and filter up to 42" in diameter

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

Designed for single or multiple tank systems

Environmental protective cover for water resistance, corrosion resistance, and UV stability

Time-tested, hydraulically-balanced piston for service and regeneration

Rugged-built electromechanical timer designed with heavy duty 3/8" wide plastic gears

## OPTIONS

Filter or softener control valves

Downflow co-current or upflow counter-current regeneration

No hard water bypass piston

Brine cam auxiliary switch

Electromechanical timer auxiliary switch

Hot water

Versatile top or side mount

Electromechanical 7- or 12-day time clock, meter delayed, or meter immediate regeneration

**NXT-** Network controller uses on-board communication capabilities to link multiple valves (via off-the-shelf CAT3, CAT5, or better cables) for system types 4,5,6,7,9, and 14

**XT-** Offers a two-line, 16 character LCD backlit display for easy entering of master and user programing as well as view of diagnostics

**Electromechanical Timer-** Simple to adjust and easy to service with quick access to all internal components



TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 61 Section 8 Material Safety Only.



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



UL recognized to 979



Restriction of Hazardous Substance Compliant

## VALVE SPECIFICATIONS

|                |                   |
|----------------|-------------------|
| Valve Material | Lead-free brass** |
| Inlet/Outlet   | 2" NPTF/BSPF      |
| Cycles         | 3 or 5            |

## FLOW RATES (50 PSI INLET) – VALVE ALONE

|                              |                                  |
|------------------------------|----------------------------------|
| Continuous<br>15 psi drop    | 95 GPM (21.6 m <sup>3</sup> /h)  |
| Peak<br>25 psi drop          | 124 GPM (28.2 m <sup>3</sup> /h) |
| Cv<br>flow at 1 psi drop     | 24.8                             |
| Max. Backwash<br>25 psi drop | 105 GPM (23.8 m <sup>3</sup> /h) |

## REGENERATION

|                    |                          |
|--------------------|--------------------------|
| Downflow/Upflow    | Both                     |
| Adjustable Cycles  | Yes                      |
| Time Available     |                          |
| Electromechanical: | 0 - 164 min/regeneration |
| NXT:               | 0 - 240 min/cycle        |
| XT:                | 0 - 240 min/cycle        |

## METER INFORMATION

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Meter Accuracy       |                                                         |
| 2" Paddle:           | 3 - 150 GPM ± 5%<br>(.68 - 34 m <sup>3</sup> /h)        |
| Meter Capacity Range |                                                         |
| 2" Standard:         | 1,250 - 21,250 gal<br>(5 - 75 m <sup>3</sup> )          |
| 2" Extended:         | 6,250 - 106,250 gal<br>(24 - 375 m <sup>3</sup> )       |
| NXT:                 | 1 - 9,900,000 gal<br>(0 - 37,476 m <sup>3</sup> )       |
| XT:                  | 1,000 - 9,900,000 gal<br>(3.8 - 37,476 m <sup>3</sup> ) |

## DIMENSIONS

|                              |                        |
|------------------------------|------------------------|
| Distributor Pilot            | 2.375" O.D. (63 mm)    |
| Drain Line                   | 2" NPTF                |
| Brine Valve<br>1600 or 1650: | 1"                     |
| Injector System              | 1800                   |
| Mounting Base                | 4" - 8 UN              |
| Height from<br>Top of Tank   | 10" (254 mm)           |
| Riser Tube Diameter          | 2" (51 mm)             |
| Riser Height                 | 1/4" Below top of tank |

## TYPICAL APPLICATIONS

|                |                   |
|----------------|-------------------|
| Water Softener | 14 - 63" diameter |
| Filter         | 14 - 42" diameter |

## ADDITIONAL INFORMATION

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Electrical Rating                     | 24/110/220V;<br>50/60 Hz        |
| Estimated Shipping Weight             |                                 |
| Time Clock:                           | 39 lbs                          |
| Metered Valve:                        | 46 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)           |
| Hot Water Valve:<br>Filter            | 34 - 180°F (1 - 82°C)           |
| Hot Water Valve:<br>Softener No Meter | 34 - 150°F (1 - 66°C)           |

\*\*As defined in the U.S. EPA Safe Drinking Water Act; the product also meets California Proposition 65 Standards for lead-free brass.



### WATER QUALITY SYSTEMS

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