

# FLECK® 3900 3-INCH CONTROL VALVE

5-CYCLE CONTROL FOR SINGLE OR MULTI-TANK SYSTEMS

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



## FEATURES/BENEFITS

- Lead-free brass valve body for superior strength and durability
- Continuous service flow rate of 250 GPM with a backwash of 100 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
- Treated water regeneration
- 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 programming 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.



Restriction of Hazardous Substance Compliant

## VALVE SPECIFICATIONS

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

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

|                              |                                  |
|------------------------------|----------------------------------|
| Continuous<br>15 psi drop    | 250 GPM (56.8 m <sup>3</sup> /h) |
| Peak<br>25 psi drop          | 325 GPM (73.8 m <sup>3</sup> /h) |
| Cv<br>flow at 1 psi drop     | 65                               |
| Max. Backwash<br>25 psi drop | 100 GPM (22.7 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       |   |
| 3" Paddle:           | 7 - 300 GPM ± 5%<br>(1.6 - 68 m <sup>3</sup> /h)        |
| Meter Capacity Range |   |
| 3" Standard:         | 3,750 - 63,750 gal<br>(14 - 240 m <sup>3</sup> )        |
| 3" Extended:         | 18,750 - 318,750 gal<br>(71 - 1,200 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          | 3" O.D. (90 mm)   |
| Drain Line                 | 2" NPTF   |
| Brine Valve<br>1800:       | 1"  |
| Injector System            | 1800  |
| Mounting Base              | Top: 6" – 8 threaded,<br>6" flanged or welded<br>flange |
| Height from<br>Top of Tank | 15" (381 mm)  |
| Riser Tube Diameter        | 3" (76 mm)  |
| Riser Height               | Flush with top of tank                                  |

## TYPICAL APPLICATIONS

|                |  |
|----------------|--|
| Water Softener | 24 - 63" diameter                                    |
| Filter         | 24 - 42" diameter<br>based on 10 GPM/ft <sup>2</sup> |

## ADDITIONAL INFORMATION

|                           |                                 |
|---------------------------|---------------------------------|
| Electrical Rating         | 24/110/220V;<br>50/60 Hz        |
| Estimated Shipping Weight |                                 |
| Time Clock:               | 93 lbs                          |
| Metered Valve:            | 115 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)           |

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



## FILTRATION & PROCESS

5730 NORTH GLEN PARK ROAD, MILWAUKEE, WI 53209  
P: 262.238.4400 | WWW.PENTAIRAQUA.COM | CUSTOMER CARE: 800.279.9404 | tech-support@pentair.com

All Pentair trademarks and logos are owned by Pentair, Inc. or its affiliates. All other registered and unregistered trademarks and logos are the property of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.

40742 REV D JL14 © 2013 Pentair Residential Filtration, LLC. All Rights Reserved.