

# FLECK 3900 3-INCH CONTROL VALVE

# 5-CYCLE CONTROL FOR SINGLE OR MULTI-TANK SYSTEMS







# **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, hydraulicallybalanced piston for service and regeneration



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

#### **CONFIGURATIONS • 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
- NXT2 Network up to 8 valves for multi-system control. Improved display (OLED) allows for easy viewing. Multivalve system settings can be pushed from one controller to expedite setup
- 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

#### **VALVE SPECIFICATIONS**

Valve Material Lead-free brass\* Inlet/Outlet 3" NPTF/BSPF

3 or 5 Cycles

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

Continuous 250 GPM (56.8 m<sup>3</sup>/h)

15 psi (1.0 bar) drop

325 GPM (73.8 m<sup>3</sup>/h) Peak

25 psi (1.7 bar) drop

65 Cv

flow at 1 psi (0.07 bar) drop

100 GPM (22.7 m<sup>3</sup>/h) Max. Backwash

25 psi (1.7 bar) drop

# REGENERATION

Downflow/Upflow Both

Adjustable Cycles Yes

Timer Available

Electromechanical: 0 - 164 min/cycle NXT2: 0 - 240 min/cycle SXT: 0 - 240 min/cycle

#### **METER INFORMATION**

(3" stainless steel meter available on 3900 Electronic valves only)

Meter Accuracy

3" Paddle:  $7 - 300 \text{ GPM} \pm 5\%$ 

 $(1.6 - 68 \text{ m}^3/\text{h})$ 

1-1/2" Paddle:  $1.5 - 75 \text{ GPM} \pm 5\%$ 

(5.7 - 283.9 LPM)

Meter Capacity Range

3" Standard: 3,750 - 63,750 gal

(14 - 240 m<sup>3</sup>)

18,750 - 318,750 gal 3" Extended:

(71 - 1,200 m<sup>3</sup>)

NXT2: 1-9,999,999 gal

 $(0 - 37,476 \text{ m}^3)$ 

XT: 1,000 - 9,900,000 gal

 $(3.8 - 37.476 \text{ m}^3)$ 

#### **DIMENSIONS**

Distributor Pilot 3" O.D. (90 mm)

Drain Line 2" NPTF

Brine Valve

1800:

Injector System 1800

Mounting Base Top: 6" - 8 threaded, 6"

flanged or welded flange

Height from

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 24 - 42" diameter Filters

based on 10 GPM/ft<sup>2</sup>

### ADDITIONAL INFORMATION

**Electrical Rating** 24/100-240V 50/60 Hz

Estimated Shipping Weight

Time Clock: 93 lbs Metered Valve: 115 lbs

Pressure

Hydrostatic: 300 psi

(20 bar)

Working: 20 - 125 psi

(1.4 - 8.5 bar)

Temperature

34 - 110°F (1 - 43°C) Cold Water Valve:

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

