

FLECK 3900 3-INCH CONTROL VALVE

5-CYCLE CONTROL FOR SINGLE OR MULTI-TANK SYSTEMS



DUFF WATER CONDITIONING
Products for Quality Water

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



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 programming 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
Cycles	3 or 5

FLOW RATES (50 PSI INLET) – VALVE ALONE

Continuous 15 psi (1.0 bar) drop	250 GPM (56.8 m ³ /h)
Peak 25 psi (1.7 bar) drop	325 GPM (73.8 m ³ /h)
Cv flow at 1 psi (0.07 bar) drop	65
Max. Backwash 25 psi (1.7 bar) drop	100 GPM (22.7 m ³ /h)

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 GPM ± 5% (1.6 - 68 m ³ /h)
1-1/2" Paddle:	1.5 - 75 GPM ± 5% (5.7 - 283.9 LPM)
Meter Capacity Range	
3" Standard:	3,750 - 63,750 gal (14 - 240 m ³)
3" Extended:	18,750 - 318,750 gal (71 - 1,200 m ³)
NXT2:	1 - 9,999,999 gal (0 - 37,476 m ³)
XT:	1,000 - 9,900,000 gal (3.8 - 37,476 m ³)

DIMENSIONS

Distributor Pilot	3" O.D. (90 mm)
Drain Line	2" NPTF
Brine Valve 1800:	1"
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
Filters	24 - 42" diameter based on 10 GPM/ft ²

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	
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.

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40742 Rev F MR20