

FLECK® 2850s 1-1/2 INCH CONTROL VALVE

FOR FILTER AND SOFTENER APPLICATIONS







FEATURES/BENEFITS

Lead-free brass valve body for superior strength and durability

Continuous service flow rate of 70 GPM with a backwash of 70 GPM

Backwash capability accommodates softener tanks up to 36" and filter up to 30" 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

No hard water bypass piston

Brine cam auxiliary switch

Electromechanical timer auxiliary switch

Versatile top or side mount

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

Manual lever operations

NXT- Network controller uses onboard 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

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

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 1-1/2" NPTF/BSPF

Cycles

FLOW RATES (50 PSI INLET) - VALVE ALONE

 Continuous
 70 GPM

 15 psi drop
 (15.9 m³/h)

 Peak
 90 GPM

 25 psi drop
 (20.4 m³/h)

Cv 18

flow at 1 psi drop

Max. Backwash 70 GPM (15.9 m³/h)

25 psi drop

REGENERATION

Downflow/Upflow Downflow only

Adjustable Cycles Yes

Time Available

Electromechanical: 0 - 164 min/regeneration SXT: 0 - 99 min/cycle NXT: 0 - 240 min/cycle

0 - 240 min/cycle

 $0.7 - 40 \text{ GPM} \pm 5\%$

XT: METER INFORMATION

1" Paddle:

Meter Accuracy

 $\begin{array}{c} & (0.16 - 9 \text{ m}^3/\text{h}) \\ 1\text{-}1/2\text{" Paddle:} & 1.5 - 75 \text{ GPM} \pm 5\% \\ & (0.34 - 17 \text{ m}^3/\text{h}) \\ 1\text{-}1/2\text{" Turbine:} & 2 - 40 \text{ GPM} + 5/-8\% \\ \end{array}$

 $(0.45 - 9 \text{ m}^3/\text{h})$

Meter Capacity Range

1" Standard: 310 - 5,270 gal (1.2 - 20 m³) 1" Extended: 1,550 - 26,350 gal (6 - 100 m³)

1-1/2" Standard: 625 - 10,625 gal (2.5 - 40 m³)

1-1/2" Extended: 3,125 - 53,125 gal (12 - 200 m³)

SXT: 1 - 999,900 gal (0 - 3,785 m³)

NXT: 1 - 9,900,000 gal (0 - 37,476 m³)

XT: 1,000 - 9,900,000 gal (3.8 - 37,476 m³)

DIMENSIONS

Distributor Pilot 1.9" O.D. (50 mm)

Drain Line 1-1/4" NPTF

Brine Valve

1600 or 1650: 3/8" 1700 or 1710: 1/2"

Injector System 1600 or 1700

Mounting Base 4"-8 UN

Height from

Top of Tank 6.5" (165 mm)

Riser Tube Diameter 1-1/2" (38 mm)

Riser Height 1/4" Below top of tank

TYPICAL APPLICATIONS

Water Softener 14 - 36" diameter Filters 14 - 30" diameter

based on 10 GPM/ft²

ADDITIONAL INFORMATION

Electrical Rating 24/110/220V 50/60 Hz

Estimated Shipping Weight

Time Clock: 19 lbs
Metered Valve: 27 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) Hot Water Valve: 34 - 180°F (1 - 82°C)

Filter, Time Clock, 1600 Brine System

Hot Water Valve: 34 - 150°F (1 - 66°C)

Meter, 1700 Brine System

*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.