

FLECK 2850s

1-1/2 INCH CONTROL VALVE

FOR FILTER AND SOFTENER APPLICATIONS

**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 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 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

SXT- Large LCD display and user-selectable 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 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.



UL recognized to 979



Restriction of Hazardous Substance Compliant

VALVE SPECIFICATIONS

Valve Material	Lead-free brass*
Inlet/Outlet	1-1/2" NPTF/BSPF
Cycles	5

FLOW RATES (50 PSI INLET) - VALVE ALONE

Continuous 15 psi drop	70 GPM (15.9 m ³ /h)
Peak 25 psi drop	90 GPM (20.4 m ³ /h)
Cv flow at 1 psi drop	18
Max. Backwash 25 psi drop	70 GPM (15.9 m ³ /h)

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
XT:	0 - 240 min/cycle

METER INFORMATION

Meter Accuracy	
1" Paddle:	0.7 - 40 GPM ± 5% (0.16 - 9 m ³ /h)
1-1/2" Paddle:	1.5 - 75 GPM ± 5% (0.34 - 17 m ³ /h)
1-1/2" Turbine:	2 - 40 GPM +5/-8% (0.45 - 9 m ³ /h)
Meter Capacity Range	
1" Standard:	310 - 5,270 gal (1.2 - 20 m ³)
1" Extended:	1,550 - 26,350 gal (6 - 100 m ³)
1-1/2" Standard:	625 - 10,625 gal (2.5 - 40 m ³)
1-1/2" Extended:	3,125 - 53,125 gal (12 - 200 m ³)
SXT:	1 - 999,900 gal (0 - 3,785 m ³)
NXT:	1 - 9,900,000 gal (0 - 37,476 m ³)
XT:	1,000 - 9,900,000 gal (3.8 - 37,476 m ³)

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/ft ²

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.



13845 BISHOPS DR., SUITE 200, BROOKFIELD, WI 53005 USA
P: 262.238.4400 | WATERPURIFICATION.PENTAIR.COM | CUSTOMER CARE: 800.279.9404 | tech-support@pentair.com

© 2018 Pentair Residential Filtration, LLC. All rights reserved.

§For a detailed list of where Pentair trademarks are registered, please visit waterpurification.pentair.com/brands. Pentair trademarks and logos are owned by Pentair plc or its affiliates. Third party registered and unregistered trademarks and logos are the property of their respective owners.

42366 REV G JL18