

FLECK® 2900s

2-INCH CONTROL VALVE



FEATURES/BENEFITS

Lead-free brass valve body for superior strength and durability

Continuous service flow rate of 106 GPM with a backwash of 36 GPM

Backwash capability accommodates softener tanks up to 36" and filter up to 24" 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

Hot water

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.



UL recognized to 979



Restriction of Hazardous Substance Compliant

VALVE SPECIFICATIONS

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

FLOW RATES (50 PSI INLET) – VALVE ALONE

Continuous 15 psi drop	106 GPM (24.1 m ³ /h)
Peak 25 psi drop	140 GPM (31.8 m ³ /h)
Cv flow at 1 psi drop	27.5
Max. Backwash 25 psi drop	36 GPM (8.2 m ³ /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	
2" Paddle:	3 - 150 GPM ± 5% (.68 - 34 m ³ /h)
Meter Capacity Range	
2" Standard:	1,250 - 21,250 gal (5 - 75 m ³)
2" Extended:	6,250 - 106,250 gal (24 - 375 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" NPTM
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	12" (305 mm)
Riser Tube Diameter	1-1/2" (38 mm)
Riser Height	1/4" Below top of tank

TYPICAL APPLICATIONS

Water Softener	14 - 36" diameter
Filter	14 - 24" diameter based on 10 GPM/ft ²

ADDITIONAL INFORMATION

Electrical Rating	24/110/220V; 50/60 Hz
Estimated Shipping Weight	
Time Clock:	33 lbs
Metered Valve:	40 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)
Time Clock, 1600 Brine System	
Hot Water Valve:	34 - 150°F (1 - 66°C)
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.



WATER QUALITY SYSTEMS

5730 NORTH GLEN PARK ROAD, MILWAUKEE, WI 53209

P: 262.238.4400 | F: 262.238.4404

WATERPURIFICATION.PENTAIR.COM

CUSTOMER CARE: 800.279.9404 | tech-support@pentair.com

© 2015 Pentair Residential Filtration, LLC. All rights reserved.

*For a detailed list of where Pentair trademarks are registered, please visit waterpurification.pentair.com.

Pentair trademarks and logos are owned by Pentair, Inc. or its affiliates. Third party registered and unregistered trademarks and logos are the property of their respective owners.

40738 REV D AU15