

F E C 2850

COMMERCIAL CONTROL VALVES

IDEAL FOR SMALL COMMERCIAL AND INDUSTRIAL APPLICATIONS

FEA E /BE EFI

- Lead-free brass valve body for superior strength and durability
- Continuous service flow rate of 46 GPM with a backwash of 47 GPM
- Backwash capability accommodates softener tanks up to 36" and filters 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

I

- Filter or softener control valves
- No hard water bypass2t,1g3 bos

APPLICABLE SPECIFICATIONS

Valve Material	Lead-free brass*
Inlet/Outlet	1-1/2" NPTF/BSPF
Cycles	3 or 5

FLOW RATES (50 PSI DROP) AT 1 PSI DROP

Continuous 15 psi drop	46 GPM (10.4 m³/h)
Peak 25 psi drop	60 GPM (13.6 m³/h)
Cv flow at 1 psi drop	12
Max. Backwash 25 psi drop	47 GPM (10.7 m³/h)

DOWNFLOW/UPFLOW

Downflow/Upflow	Downflow only
Adjustable Cycles	Yes
Time Available	
Electromechanical:	0 - 164 min/regeneration
SXT:	0 - 199 min/cycle
NXT:	0 - 240 min/cycle
XT:	0 - 240 min/cycle

FLOW RATES AT 1 PSI DROP

Meter Accuracy	
1" Paddle:	0.7 - 40 GPM ± 5% (0.16 - 9 m³/h)
1-1/2" Paddle:	1.5 - 75 GPM ± 5% (0.34 - 17 m³/h)
1-1/2" Turbine:	2 - 40 GPM +5/-8% (0.45 - 9 m³/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)

DIETARY

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	6.5" (165 mm)
Riser Tube Diameter	1-1/2" (38 mm)
Riser Height	1/4" Below top of tank

ICAPACITY

Water Softener	14 - 36" diameter
Filters	14 - 30" diameter based on 10 GPM/ft²

ADDITIONAL FEATURES

Electrical Rating	24/110/220V 50/60 Hz
Estimated Shipping Weight	
Time Clock:	7 lbs
Metered Valve:	10 lbs
Pressure	
Hydrostatic:	300 psi



CONTACT INFORMATION

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.

40726 REV E JL14 © 2013 Pentair Residential Filtration, LLC. All Rights Reserved.