

FLECK 2900S AIQ SPECS

COMMERCIAL 2" CONTROL VALVE

2-INCH BRASS CONTROL VALVE



Tested and Certified by the WQA to NSF/ANSI/CAN 61 for Material Safety only and NSF/ANSI 372 for Lead Free compliance and CSA B483.1



UL listed to UL 979

*For Fleck NXT2 model only

FEATURES • BENEFITS

- ◆ Lead-free brass valve body for superior strength and durability
- ◆ Designed for single or multiple tank systems
- ◆ Time-tested, hydraulically-balanced piston for service and regeneration
- ◆ Proven dual piston technology provides flexibility and integral standby
- ◆ Versatile top or side mount options available

AiQ POWERHEAD

The Pentair Fleck AiQ Powerhead sets a new industry benchmark with its modern design and innovative features.

FEATURES		BENEFITS
Wrap-around status light bar	→	Quick visibility in various applications
USB-C port with modular 4-step teardown	→	Easy programming, data management, and quick access to all parts for maintenance
Twist-off controller, hinge/screw cover removal, and handle on backplate	→	Simplified servicing, maintenance, and handling
Wireless connection for up to 16 valves	→	Placement flexibility with less wires to manage

AiQ HUB

The AiQ Hub provides additional features to create multi-tank, coordinated systems.

FEATURES		BENEFITS
Wired and wireless connectivity	→	Seamless, scalable communication between AiQ valves
BACnet and Modbus protocol support	→	Full building management system (BMS) compatibility for enterprise integration
Hub pushes programming to other valves	→	Program once, deploy to all
Remote regen, system lockout and additional relays available	→	Enables additional functionality to meet the needs of most applications



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 ½
Max. Backwash 25 psi drop	36 GPM (8.2 m ³ /h)

REGENERATION

Downflow/Upflow	Both
Adjustable Cycles	Yes
Time Available	
NXT2:	0–240 min/cycle
Electromechanical:	0–164 min/regeneration

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)
NXT2:	1–9,999,999 gal (0–37,854 m ³)

*As defined in the U.S. EPA Safe Drinking Water Act; the product also meets California Proposition 65 Standards for lead-free brass.

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 ½" (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	

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