

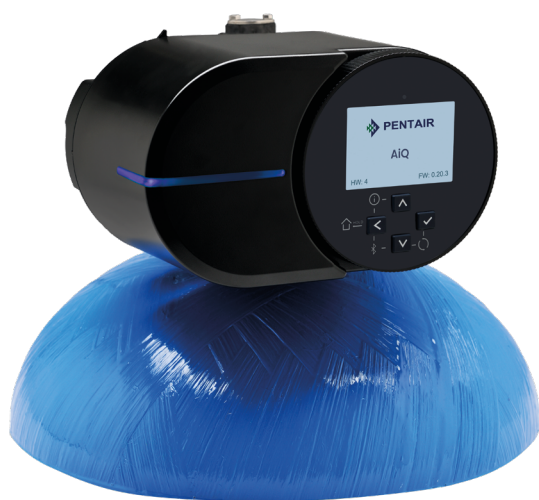
FLECK INDUSTRIAL VALVE 2850

Featuring Advanced-iQ
controller & powerhead



2850 AiQ

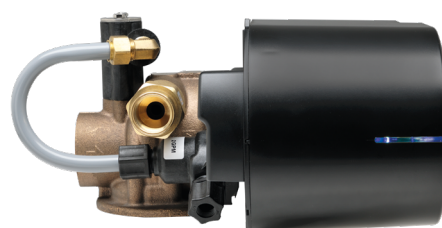
Featuring Advanced-iQ controller & powerhead



It's easier than ever to meet your needs

2850 is a ROHS and Reach brass valve with environmental protective cover for water resistance, corrosion resistance, and UV stability. Designed for single or multiple tank systems ideally suitable for small commercial and industrial applications, softening and filtration applications.

The **Pentair Fleck AiQ Powerhead** sets a new industry benchmark with its modern design and innovative features — leaving traditional valves behind. Experience effortless installation and setup with our intuitive controller interface, ensuring simple and efficient programming whether on-board, or via USB port. Maintenance has never been easier, thanks to the modular design that reduces powerhead teardown steps saving you time and effort.



FEATURES AND BENEFITS

- ▶ **Lightweight and compact**
Easier to handle, ship, and store
- ▶ **Modular powerhead design**
Simple 4-step process to install and teardown
- ▶ **Backplate hook**
Convenient place to rest the cover during service or installation
- ▶ **Easy grip handle**
Straightforward handling of the powerhead during installation or maintenance
- ▶ **Benchtop programming**
Program before installation using just the controller
- ▶ **Efficient data transfer and custom programming**
The USB-C port facilitates programming, data transfer, usage history retrieval, software updates, diagnostics, and troubleshooting
- ▶ **Intuitive multilanguage menu**
Full-Color Display with Quick Start Menu and Intuitive Menu Structure with Multilanguage
- ▶ **Flash programming**
Efficiently program multiple valves with pre-defined configurations or water-specific profiles using simple Excel files
- ▶ **Field-updateable controller**
Keep systems current without replacing hardware
- ▶ **Modern and functional design with enhanced visibility**
Clear status indicator with a multi-angle wrap-around light bar
- ▶ **Customizable support information via USB-C**
Add a custom logo and contact info to the display

OPERATING SPECIFICATIONS

Valve specifications

Valve material	Brass
Hydrostatic pressure	20 bar
Working pressure	1.8 – 8.5 bar
Working temperature	1 – 43 °C
Electrical rating	24 V – 50/60 Hz
Protection index	IP 23

Flow rates (3.5 BAR INLET) – Valve Alone

Continuous ($\Delta p = 1$ bar)	11.6 m ³ /h
Peak ($\Delta p = 1.8$ bar)	15 m ³ /h
CV*	13.2 gpm
Maximum backwash ($\Delta p = 1.8$ bar)	11.1 m ³ /h

* Cv: Flow rate of valve alone in gpm at 0.07 bar pressure drop.

Down Flow Regeneration

	Electronic
Cycles	Adjustable
Time available	99 min each cycle

Connections – Dimension

Inlet / outlet	1½" BSP
Distributor tube	50 mm (DN 40)
Riser tube cut: Target / Max / Min	0.25" below top of tank / Flush with top tank / 0.75" below
Drain line	1" NPT
Brine line (1650)	⅜"
Brine line (1710)	½"
Mounting base – Top	4" – 8 UN
Height (from the top of tank)	165 mm

Tank size application (recommended)

Water softener	10 – 30" (250 – 760 mm)
Filters	10 – 24" (250 – 610 mm)

Regeneration Cycles

Down flow

1. Backwash
2. Brine & slow rinse
3. Rapid rinse
4. Brine tank refill
5. Service

Additional information

No water during regeneration	NBP
Mounting	Side Mount adapter
Filter	Yes



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