

TECHNICAL SHEET

FLECK
COMMERCIAL VALVE 5810



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TECHNICAL CHARACTERISTICS

- Fiber-reinforced polymer valve body
- Continuous service flow rate of 8.2 m³/h (36 GPM) with a backwash of 6.3 m³/h (28 GPM)
- Backwash capability accommodates softener tanks up to 21 inches and filters up to 21 inches in diameter
- Fully adjustable 3- or 5-cycle control
- Time-tested, hydraulically-balanced piston
- Optical sensor
- Soft water refill
- Variable brining when used with XTR timer
- Diagnostics
- Programming stored in memory

OPTIONS

- Filter or softener control valves
- Downflow co-current or upflow counter-current regeneration
- Plumbing connections in 1 and 1.25 inches BSP
- Fiber-reinforced polymer high-flow bypass valve
- Variable brining when used with XTR timer
- Programmable regeneration types
- Two color bezel options black or blue
- **XTR/Hurricane**- Premium touch screen LCD display with two programmable relay outputs for both normally opened and normally closed contacts
- **SXT/Typhoon**- Large LCD display and user-selectable time clock or metered function; usable for filtration and softener systems



VALVE SPECIFICATIONS

Valve material	Fiber - reinforced polymer
Inlet/Outlet	1 or 1.25 inch BSP
Cycles	5

FLOW RATE (3.5 BAR INLET) – VALVE ALONE

	Downflow m ³ /h (GPM)	Upflow m ³ /h (GPM)	Filter m ³ /h (GPM)
Continuous ($\Delta p = 1$ bar)	8.2 (36)	7.9 (39)	7.0 (31)
Peak ($\Delta p = 1.8$ bar)	10.6 (47)	10.1 (45)	9.0 (40)
Kv*	8.1	7.7	6.9
Cv**	9.4	8.9	8.0
Max. backwash ($\Delta p = 1.7$ bar)	6.3 (28)	6.9 (30)	7.5 (33)

*Kv: Service flow rate (valve alone) in m³/h at 1 bar pressure drop, water temperature of 16°C.
**Cv: Service flow rate (valve alone) in gpm at 1PSI pressure drop at water temperature of 60°F

REGENERATION

Downflow / Upflow	Both
Adjustable cycles	Yes
Time available	Typhoon (SXT): 0 - 199 min/cycle Hurricane (XTR): 0 - 240 min/cycle

METER INFORMATION

Meter accuracy	1.25-inch turbine: 0.45 - 9 m ³ /h (2 - 40 GPM \pm 5%)
Meter capacity range	Typhoon (SXT): 0 - 3,785 m ³ (1 - 999,900 gal) Hurricane (XTR): 0 - 378,541 m ³ (1 - 9,999,999 gal)

DIMENSIONS

Distributor pilot	26.7 mm (1.05 inch) O.D
Drain line	0.75 or 1 inch BSP
Injector brine system	1600: $\frac{3}{8}$ "
Mounting base	2.5 inches - 8 NPSM
Height from top of tank	287 mm (11.3 inches)
Riser height	0.25 inches below top of tank

TYPICAL APPLICATIONS

Water softener	8 - 21 inches \emptyset
Filter	8 - 21 inches \emptyset (based on 24,5 m ³ /h - 10 GPM/ft ²)

ADDITIONAL INFORMATION

Electrical rating	12 V DC
Pressure	Hydrostatic: 20 bar (300 psi) Working: 1.4 - 8.5 bar (20 - 125 psi)
Temperature	Cold water valve: 1 - 43°C (34 - 110°F)
Estimated Shipping Weight	5 kg

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