

FLECK VALVE 5800

Residential



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FEATURES

- ▶ Excellent service rates (21 gpm or 4.8 m³/h continuous, 27 gpm or 6.1 m³/h peak) and backwash flow rate (17 gpm or 3.9 m³/h @ 1.8 bar psi ΔP)
- ▶ Fast positioning reversible 10.000 RPM 12 V DC drive motor
- ▶ Seal and spacer cartridge for easy servicing
- ▶ LCD – Backlit display that helps during low light conditions
- ▶ Precise positioning of the piston using optical sensor
- ▶ Three styles of electronic controllers to choose from: SXT, XTR and XTRi
- ▶ Programming is stored in memory
- ▶ Filling of treated water for better regeneration efficiency and cleaner brine tank



OPTIONS

- ▶ Upflow or countercurrent regeneration
- ▶ Down flow or co-current regeneration
- ▶ Filter (standard upflow piston; down flow possible with the SXT & XTR controller)
- ▶ Metered- or time clock-initiated regeneration



OPERATING SPECIFICATIONS

Valve specifications	
Valve material	Reinforced PPO (Polyphenylene oxide) glass fibre
Inlet/Outlet	0.75, 1 or 1.25"
Cycles	5 (to 7 according to settings)

Flow rate (3.5 Bar Inlet) – Valve Alone		
Continuous ($\Delta p = 1$ bar)	4.8 m ³ /h	21 gpm
Peak ($\Delta p = 1.8$ bar)	6.1 m ³ /h	27 gpm
Kv / Cv*	4.67	5.4
Max. backwash ($\Delta p = 1.8$ bar)	17 gpm	3.9 m ³ /h

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

Regeneration	
Down flow / Upflow	SXT, XTR & XTRi
Adjustable cycles	SXT, XTR & XTRi
Timer	SXT: 0 – 199 minutes per cycle XTR: 0 – 199 minutes per cycle

Meter information	
Meter accuracy range	1 – 57 l/min $\pm 5\%$
Meter capacity range (gal.)	SXT: 1 – 999.900 XTR: 1 – 999.900

Dimensions	
Central tube	1.05" ext. dia., 26.7 mm
Cutting height of central tube	Bottle waves of ± 5 mm
Injector brine system	Ext. dia. 1/2" DN 15 (15/21 mm)
Connection to drain	1650
Brine line	3/8"
Mounting base	2 1/2" – 8 NPSM
Height (from the cylinder thread)	9", 228 mm

Typical applications	
Water softener	6 – 16" Ø (limited by maximum injector size)
Filter	8 – 16" Ø (based on 10 gpm per sq. ft.)

* Valve delivered with an upflow piston, which will set the filter in upflow mode. Only SXT and XTR allow for a filter with a down flow piston.

Additional information	
Electrical rating	12 V DC
Pressure	Hydrostatic: 300 psi, 20 bar Working: 20 – 125 psi, 1.4 – 8.6 bar
Temperature	34 – 110°F, 1 – 43°C

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Valve controllers

SXT CONTROLLER



BENEFITS AND FEATURES

- ▶ Increased flexibility, regeneration of the settings phases
- ▶ Large LCD display with blue backlight
- ▶ Ability to change the programming: chronometric or volumetric version
- ▶ Suitable for filtration or softening systems

XTR CONTROLLER



- ▶ Display on premium LCD touch screen
- ▶ Customisable programming
- ▶ Help / assistance screen with optional retailer contact information
- ▶ Easy programming with user-friendly interface
- ▶ Shutdown when system error alarm goes off

XTRi CONTROLLER



- ▶ Ability to connect to Pentair and Pentair Pro apps via WiFi*
- ▶ Remote monitoring technology : WiFi connectivity allows user to view system status and receive push alerts
- ▶ Display on premium LCD touch screen
- ▶ Customizable programming
- ▶ Help / assistance screen with optional retailer contact information
- ▶ Easy programming with user-friendly interface
- ▶ Shutdown when system error alarm goes off

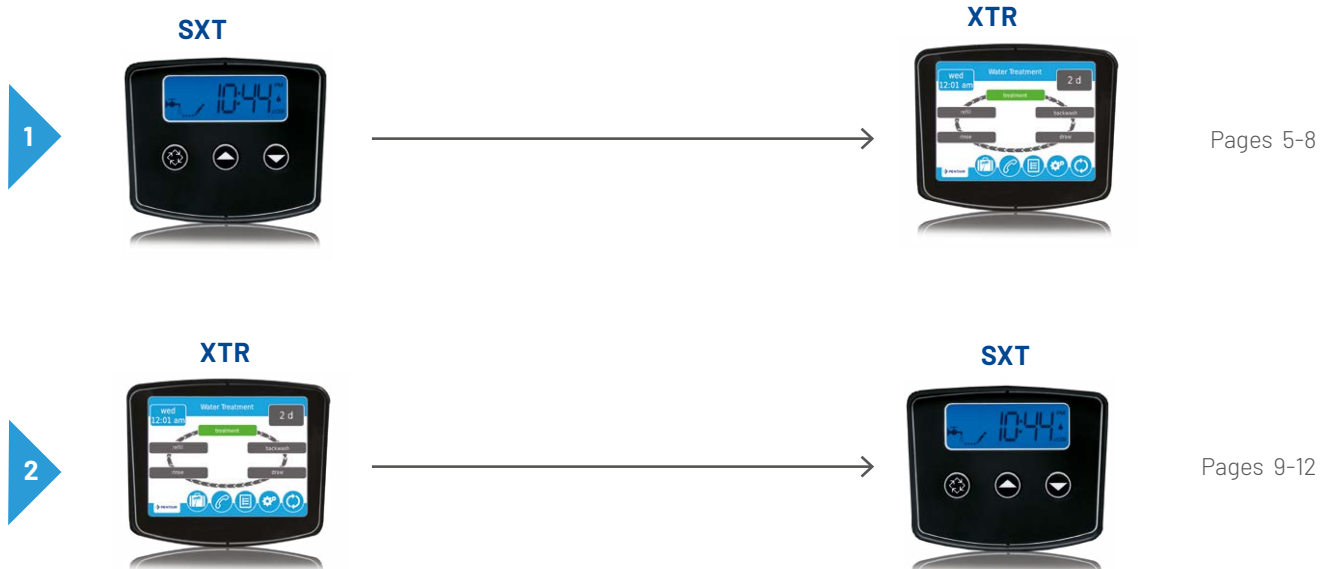
***Please visit**

pentair.com/connectedsoftener for more information on Pentair Home and Pentair Pro apps.

GUIDE TO CHANGE THE CONTROLLER

The technical guide for changing the controller deals with the terms and steps to move from one controller to another. The different tables show the valve elements to adapt to change the controller and thus move from one configuration to another.

TABLE OF CONTENT





Controller		XTR							
	Piston type	Down flow				Upflow			
	Application	Softening		Filter		Softening		Filter	
	Type of regen.	Chrono	Volumetric / Eco	Chrono	Volumetric / Eco	Chrono	Volumetric / Eco	Chrono	Volumetric / Eco
SXT	Down flow	Softening	Chrono	Change controller	Change controller Add turbine	Change controller Change BLFC & DLFC * Mixing	Change controller Add turbine Change BLFC & DLFC * Mixing **	Change controller Change piston Add turbine Move injector	Change controller Change piston Add turbine Change BLFC & DLFC * Mixing **
			volumetric / Eco	Change controller Remove turbine	Change controller	Change controller Remove turbine Change BLFC & DLFC * Mixing **	Change controller Change BLFC & DLFC * Mixing **	Change controller Change piston Remove turbine Move injector	Change controller Change piston Remove turbine Change BLFC & DLFC * Mixing **
		Filter	Chrono	Change controller Change BLFC & DLFC * Mixing ** Add injector	Change controller Remove turbine Change BLFC & DLFC * Mixing ** Add injector	Change controller	Change controller Add turbine	Change controller Change piston Change BLFC & DLFC * Mixing ** Add injector	Change controller
			volumetric / Eco	Change controller Add turbine Change BLFC & DLFC * Mixing ** Add injector	Change controller Change BLFC & DLFC * Mixing ** Add injector	Change controller Remove turbine	Change controller	Change controller Change piston Add turbine Change BLFC & DLFC * Mixing ** Add injector	Change controller Add turbine
	Upflow	Softening	Chrono	Change controller Change piston Move injector	Change controller Change piston Add turbine Move injector	Change controller Change piston Change BLFC & DLFC * Mixing **	Change controller	Change controller Add turbine	Change controller Change BLFC & DLFC * Mixing **
			volumetric / Eco	Change controller Change piston Remove turbine Move injector	Change controller Change piston Add turbine Change BLFC & DLFC * Mixing **	Change controller Change piston Change BLFC & DLFC * Mixing **	Change controller Remove turbine	Change controller	Change controller Remove turbine Change BLFC & DLFC * Mixing **
		Filter	Chrono	Change controller Change piston Change BLFC & DLFC * Mixing ** Add injector	Change controller Change piston Add turbine Change BLFC & DLFC * Mixing ** Add injector	Change controller	Change controller Change piston Remove turbine	Change controller Change BLFC & DLFC * Mixing ** Add injector	Change controller
			volumetric / Eco	Change controller Change piston Remove turbine Change BLFC & DLFC * Mixing ** Add injector	Change controller Change piston Remove turbine Change BLFC & DLFC * Mixing ** Add injector	Change controller	Change controller Change piston	Change controller Remove turbine Change BLFC & DLFC Mixing ** Add injector	Change controller Remove turbine

* To switch from filter mode to softening mode and vice versa, always adjust the size of DLFC depending on the media and the size of the cylinder
** To switch from softening mode to filter mode, close the faucet or replace it with a cap. To switch from filter mode to softening mode, add, on top of the mixer, an external mixing or mixing with a yoke

N.B. Whatever the change, if you change the size of the cylinder with respect to the initial configuration, please adapt the injector, the DLFC and the BLFC.
N.B. When buying a Pentair valve in filter mode, it will always be delivered with a UF piston.



PARTS LIST

Spare part	Reference	Reference	Quantity per box
Turbine	60626-01	Meter assy 3/4" turbine SE / SXT	1
Upflow piston	BR61838	Piston assy, UF, 5800	1
Down flow piston	BR61837	Piston assy, DF, 5800	1
BLFC (filter softening)	26958	BLFC plug assy	10
BLFC (filter softening)	18332-0.12	BLFC assy 1600	10
BLFC (filter softening)	18332-0.25	BLFC assy 1600	10
BLFC (filter softening)	18332-0.50	BLFC assy 1600	10
BLFC (filter softening)	18332-1	BLFC assy 1600	10
Mixing	24509-01	Mixing assy resid	10
Plug	26021	Mixing brass plug assy	5
DLFC	24078-0.8	DLFC & hose barb bent 5800	10
DLFC	24078-1	DLFC & hose barb bent 5800	10
DLFC	24078-1.2	DLFC & hose barb bent 5800	10
DLFC	24078-1.5	DLFC & hose barb bent 5800	10
DLFC	24078-2	DLFC & hose barb bent 5800	10
DLFC	24078-2.4	DLFC & hose barb bent 5800	10
DLFC	24078-3	DLFC & hose barb bent 5800	10
DLFC	24078-3.5	DLFC & hose barb bent 5800	10
DLFC	24078-4	DLFC & hose barb bent 5800	10
DLFC	24078-5	DLFC & hose barb bent 5800	10
DLFC	24078-6	DLFC & hose barb bent 5800	10
DLFC	24078-7	DLFC & hose barb bent 5800	10
Yoke	24735	Yoke brass 1" BSP assy with mixing	24
SXT controller	V580SC-001	5800/1600 SXT 1/1.5/0.25	4
SXT controller	V580SC-003	5800/1600 SXT UF 00/1.2/0.125	4
SXT controller	V580SC-004	5800 Filter SXT 7 gpm	4



PARTS LIST (CONTINUED)

Spare part	Reference	Reference	Quantity per box
SXT controller	V580SR-001	5800/1600 SXT 3/4" turbine 1/1.5/0.25	4
SXT controller	V580SR-002	5800/1600 SXT 3/4" turbine 0/1.2/0.25	4
SXT controller	V580SR-003	5800/1600 SXT UF 3/4" turbine 00/1.2/0.125	4
XTR controller	V580XC-001	5800/1600 XTR 1/1.5/0.25	4
XTR controller	V580XC-003	5800 Filter XTR 7 gpm	4
XTR controller	V580XR-001	5800/1600 XTR 3/4" turbine 1/1.5/0.25	4
XTR controller	V580XR-002	5800/1600 XTR UF 3/4" turbine 00/1.2/0.25	4
XTR controller	V580XR-003	5800/1600 XTR UF 3/4" turbine 000/2.4/0.125 Silver	4
Injector	18272-000	Injector assy, 1600, # 000, Brown	1
Injector	18272-00	Injector assy, 1600, # 00 Purple	1
Injector	18272-0	Injector assy, 1600, # 0, Red	1
Injector	18272-1	Injector assy, 1600, # 1, White	1
Injector	18272-2	Injector assy, 1600, # 2, Blue	1
Injector	18272-3	Injector assy, 1600, # 3, Yellow	1



Controller			SXT								
Piston type			Down flow				Upflow				
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Type of regen.			Chrono	Volumetric / Eco	Chrono	Volumetric / Eco	Chrono	Volumetric / Eco	Chrono	Volumetric / Eco	
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XTR controller	V580XR-002	5800/1600 XTR UF 3/4" turbine 00/1.2/0.25	4
XTR controller	V580XR-003	5800/1600 XTR UF 3/4" turbine 000/2.4/0.125 Silver	4
Injector	18272-000	Injector assy, 1600, # 000, Brown	1
Injector	18272-00	Injector assy, 1600, # 00 Purple	1
Injector	18272-0	Injector assy, 1600, # 0, Red	1
Injector	18272-1	Injector assy, 1600, # 1, White	1
Injector	18272-2	Injector assy, 1600, # 2, Blue	1
Injector	18272-3	Injector assy, 1600, # 3, Yellow	1



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