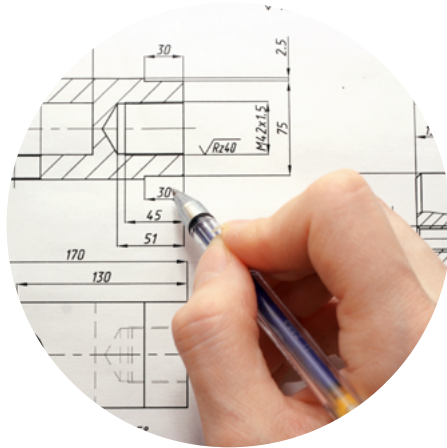# PENTAIR
WATER SOLUTIONS

FLECK
A BRAND WITH HISTORY

VALVES

Fleck

Fleck valves cover a wide range of application, either softening or filtration, residential, commercial or industrial, hot or cold water.

Over the past decades, Fleck has demonstrated a proven record of performance and reliability year after year.

MORE THAN 60 YEARS OF EXPERIENCE

Fleck Controls, Inc. was founded in the U.S. in 1950. It started to produce brine valves in 1958 and the first water softener valve in 1963. In 1995 Fleck was acquired by Pentair, the world leader in high technology flow control products providing innovative solutions for residential, commercial and industrial applications.

QUALITY

All valves from the Fleck range have been certified by major EU certificates: CE, 2014/35/UE and 2014/30/UE low voltage, 2004 / 108 / EC electromagnetic compatibility, 2011/68/EC (RoHS directive), ACS and DM174.

On top of that, our Pisa plant is certified with ISO 45001:2018 (safe and healthy workplace for employees), ISO 14001:2015 (environmental management) and ISO 9001:2015 (effectiveness of quality processes).

MANUFACTURING

From the 70s, Fleck valves (except 5800 valve) have been assembled in Europe in order to better serve the european customers. Today, the production is located in our European center of expertise for valves in Pisa, Italy, where Autotrol and Siata valves were already assembled.

INNOVATION FOCUS

A permanent wish of research and innovation in strong and reliable products allowed Fleck to become with Pentair a leading brand with a global recognition.

With approximately 3 million of valves produced in Europe since 1975, we continue to be committed to reliable and innovative products' manufacturing. This responsibility comes from the great Fleck legacy which dates back to 60 years ago, but also from Pentair's overall focus "Continuous improvement in order to satisfy customers' expectations".

CUSTOMIZATION

Today with more than 11 models, Fleck product line has the valve that sets you apart: something unique to sell as you target specific customer needs.

Fleck production site in Pisa, Italy

The complete range
of Fleck valves

	Residential			Commercial			Industrial — Mono piston			Bi piston	
	4600	**5600 SXT**	**5800**	**9000**	**9100**	**9500**	**2750**	**2850**	**3150**	**2910**	**3900**
Valve material	Brass	PPO¹	PPO¹	Brass	PPO¹	Brass	Brass	Brass	Brass	Brass	Brass
Inlet/Outlet	¾ or 1"	¾ or 1"	¾ or 1"	¾ or 1"	¾ or 1"	1½"	1"	1½"	2"	2"	3"
Service flow rate (m³/h/gpm)	4.5/20	4.5/20	4.7/21	4.0/17	4.0/17	8.4/37	5.9/26	11.6/51	22/97	24/105	57/250
Backwash flow rate (m³/h/gpm)	1.6/7	1.6/7	3.8/16	1.9/8	1.9/8	3.3/14	5.6/25	11.1/48	24/105	7.9/35	24/105
Softener tank size	6-12"	6-12"	6-16"	6-16"	6-16"	10-24"	10-24"	10-30"	24-60"	14-36"	30-60"
Filter tank size	N/A	N/A	8-16"	N/A	N/A	N/A	10-21"	10-24"	24-42"	14-24"	24-42"
Upflow regeneration		•	•	•	•				•	•	•
Wifi connectivity			XTRi								
External by-pass	•	•	•	Eco by-pass	Eco by-pass						
Mixing	•	•	•			•					
Hot water	•			•		•	•	•	•	•	•
Timer type	Mechanical	SXT	SXT/XTR/XTRi	SXT	SXT	SXT	SXT/NXT2	SXT/NXT2	NXT2	SXT/NXT2	NXT2
Adjustable cycles		•	SXT/XTR/XTRi	•	•	•	•	•	•	•	•
NBP piston							•	•	•	•	•
Manual							•	•			
Duplex				Twin	Twin	Twin	•	•	•	•	•
Multiplex							With NXT2 only	With NXT2 only	With NXT2 only	With NXT2 only	With NXT2 only

BRASS PISTON WITH LOW FRICTION COATING: THE HEART OF FLECK VALVES' PERFORMANCE

Offering an exceptionally broad line of high quality valves for water treatment, Fleck product range ensures that the customer could find the valve needed for his/her specific application.

Basic to the Fleck control's reputation for high quality and performance is a time-tested hydraulically balanced piston, seal and spacer concept to effectively pilot service flow and regeneration.

The only internal moving part is a brass piston with low friction coating.

TIMERS OVERVIEW

	Electromechanical	SXT	XTR/XTRi	NXT2
Display type	Time or volume based program wheels	Large LCD display with blue backlight	LCD display Touchscreen	2-4 Line scrolling text / OLED
Adjustable cycles	•	•	•	•
Super capacitor *Time of day*		•	•	•
Programmable auxiliary relay		DC Only (1 relay)	2 relays	2 relays
Programmable remote start			•	•
Remote lockout			•	•
Password lockout		•	•	•
LED Status indicator				•
Diagnostics		•	•	•
Usage history		•	•	•
Auxiliary switch	•			
Forward /Backward menu navigation			•	•
Multi valve networking				2-8
Reset to custom settings			•	•
Push settings				•
Field programmer Upload/Download			•	
Wifi connectivity			XTRi	
Multi language	N/A	Pictograms	6	7
Valve compatibility	2750, 2850, 2910, 3150, 3900, 4600, 5600, 9000, 9100, 9500	2750, 2850, 2910, 4600, 5600, 5800, 9000, 9100, 9500	5800	2750, 2850, 2910, 3150, 3900

ADDITIONAL ACCESSORIES

Fleck offers a complete range of accessories, such as distributor systems and air checks, any kind of adapters, yokes and by-passes as well as a selection of safety brine valves. This selection allows us to to create a product configuration, perfectly adapted for each customer specific application, being residential, commercial or industrial.

Stainless steel by-pass

Rotating side mount adapter for 2850 or 2910

Plastic yoke

Plastic bypass

Safety Brine Valve 2310

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