

FLECK

A BRAND
WITH HISTORY



FLECK VALVES

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, 206 / 95 / EC low voltage, 2004 / 108 / EC electromagnetic compatibility, 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.



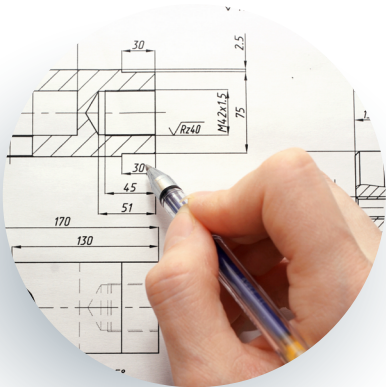
Fleck production site in Pisa, Italy

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.



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 | PPO ¹ | PPO ¹ | Brass | PPO ¹ | Brass | Brass | Brass | Brass | Brass | Brass |
| Inlet/Outlet | ¾ or 1" | ¾ or 1" | ¾ or 1" | ¾ or 1" | ¾ or 1" | 1 ½" | 1" | 1 ½" | 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/ET | SXT/ET | SXT/ET | 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 |

¹PPO: Polyphenylene oxyde

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 <i>Time of day</i> | | • | • | • |
| 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 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



www.pentair.eu