

Pallas[®] Valves

FX



POWERING OPPORTUNITIES IN INDUSTRIAL SOLUTIONS.

*NEXT-LEVEL VALVE RANGE
DESIGNED FOR COMMERCIAL &
INDUSTRIAL WATER TREATMENT*

The Pallas FX series sets a new benchmark with its focus on reliability, serviceability, and clear product differentiation



PALLAS FX – POWERING OPPORTUNITIES IN INDUSTRIAL SOLUTIONS

Engineered for performance, Pallas FX takes water treatment control to the next level. Designed to handle every flow requirement from 1" to 3", this valve range offers easy maintenance, long-term durability, and intuitive universal programming. Whether you're **building a new system or upgrading an existing one**, Pallas FX delivers reliable operation, smart control, and lasting results.

PALLAS FX
Reliability. Serviceability. Differentiation.



Advantages

- + **Complete range of plastic valves** – from 1" to 3" - including simplex, twin and duplex versions
- + **Input / Output interfaces** on the backplate of the valve
- + **Industrial grade** flow rates
- + **Easy maintenance:** Minimal tools, effortless access
- + **Built to last:** Solid construction ensuring long-term reliability
- + **Unified programming** logic across the entire range
- + Pallas FX promises you **outstanding results**, an intuitive interface and an outstanding reliability
- + **Fully programmable regeneration** cycle sequence (maximum 9)
- + Scheduled **service alarm**
- + optional **low salt sensor** triggering a salt alarm based on measurement
- + 2 free **programmable AUX relay**
- + 2 **remote input signals**



The range

- + **Simplex:** FX100 / FX125 / FX150 / FX200 / FX300
- + **Duplex:** FX125 / FX150 / FX200 / FX300
- + **Twin:** FX075 / FX100 / FX150
- + **Multi-valve:** to control up to 8 valves

Features

RELIABILITY

- Robust design
- All Pallas FX valves are Air & Wet tested @ factory
- Sample taking on every production batch to be submitted to an extensive testing programme : pressure test, performance test, environmental simulation, transport simulation, durability test and anti-interference test
- Industrial grade flow rates
- Consistent user experience across all valve models

SERVICEABILITY & EASY INSTALLATION

- Good serviceability with quick access to all internal parts
- Consistent user experience across all valve models
- Intuitive programming over the entire range
- Easy access to external connections on back plate

DIFFERENTIATION

- Modern, streamlined design with a robust industrial look and feel
- Plastic valve body up to 3" valves
- Option personalized cover
- Able to receive 2 independent remote signals (DP contact) to trigger / hold regeneration
- RS485 connection allowing real time monitoring ; remote controlling and sending of error alarms to PC / PLC or BMS.

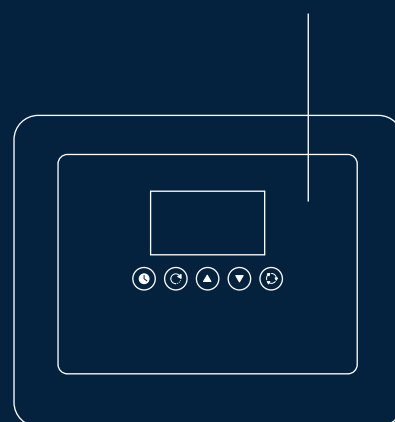
Solutions

Valve range covering all needs in commercial and industrial softening and filtration applications



Personalisation

Option for personalized cover



Technical overview **SIMPLEX**



MODEL	FX100 2.5"	FX125 2.5"	FX125 4"	FX150 4"	FX200 4"	FX300 4"	FX300 6"
FLOW RATE							
Service flow rate @ 1 bar drop	6.1 m³/h	6.8 m³/h	7.7 m³/h	9.8 m³/h	15.9 m³/h	26.8 m³/h	28.4 m³/h
Peak Service flow rate @ 1.7 bar drop	7.3 m³/h	8.6 m³/h	10.0 m³/h	12.0 m³/h	20.4 m³/h	34.7 m³/h	36.3 m³/h
Backwash @ 1.7 bar drop	5.7 m³/h	6.1 m³/h	6.4 m³/h	6.9 m³/h	12.0 m³/h	17.9 m³/h	19.1 m³/h
ADAPTER & BASE SPECIFICATION							
In/out	3/4" or 1" BSPT, Straight or Elbow QC		1" or 1.25" or 1.5" BSPT Straight QC		1.5" or 2" BSPT Brass connector	2" or 2.5" BSPT Brass Connector	
Thank thread	2.5"	2.5"	4" 8-UN	4" 8-UN	4" 8-UN	4" 8-UN	6" Flange
Riser tube diameter	DN25 (32mm OD)	DN25 (32mm OD)	DN40 (50mm OD)	DN40 (50mm OD)	DN40 (50mm OD)	DN50 (60 mm OD)	DN80 (90mm OD)
Drain line	1/2" or 3/4" or 1" NPT or BSPT, Straight or Elbow QC	1" NPT or BSPT, Straight or Elbow QC	1" NPT or BSPT, Straight or Elbow QC	1" NPT or BSPT Straight or Elbow QC	1.5" or 2" NPT or BSPT Brass connector	2" or 2.5" NPT or BSPT Brass connector	2" or 2.5" NPT or BSPT Brass connector
Brine line	3/8" or 1/2" OD Elbow QC	3/8" or 1/2" OD Elbow QC	3/8" or 1/2" OD Elbow QC	3/8" or 1/2" OD Elbow QC	1/2" or 1"BSPT Straight or Elbow QC	1/2" or 1"BSPT Straight or Elbow QC	1/2" or 1"BSPT Straight or Elbow QC
WORKING CONDITIONS							
Power supply	INPUT: 100-240V AC 50/60Hz - OUTPUT: DC 12V/1A						
Max. VA	12W						
Operating pressure	1.4 to 8.0 bar						
Temperature	1°C - 43°C						

* All flows only for valve without top or bottom distributor.

Technical overview

DUPLEX



MODEL	FX125 2.5"	FX125 4"	FX150 4"	FX200 4"	FX300 4"	FX300 6"
FLOW RATE						
Service flow rate @ 1 bar drop	6.1 m³/h	6.5 m³/h	7.5 m³/h	12.9 m³/h	25.9 m³/h	26.3 m³/h
Peak Service flow rate @ 1.7 bar drop	7.4 m³/h	7.9 m³/h	9.0 m³/h	15.9 m³/h	33.6 m³/h	34.5 m³/h
Backwash @ 1.7 bar drop	5.9 m³/h	6.5 m³/h	6.7 m³/h	14.3 m³/h	26.8 m³/h	27.7 m³/h
ADAPTER & BASE SPECIFICATION						
In/out	1" or 1.25" or 1.5" BSPT Straight QC	1" or 1.25" or 1.5" BSPT Straight QC	1" or 1.25" or 1.5" BSPT Straight QC	1.5" or 2" BSPT Brass Connector	2" or 2.5" BSPT Brass Connector	2" or 2.5" BSPT Brass Connector
Thank thread	2.5"	4" 8-UN	4" 8-UN	4" 8-UN	4" 8-UN	6" Flange
Riser tube diameter	DN25 (32mm OD)	DN40 (50mm OD)	DN40 (50mm OD)	DN40 (50mm OD)	DN50 (60 mm OD)	DN80 (90mm OD)
Drain line	1" NPT or BSPT, Straight or Elbow QC	1" NPT or BSPT, Straight or Elbow QC	1" NPT or BSPT, Straight or Elbow QC	1.5" or 2" NPT or BSPT Brass Connector	2" or 2.5" BSPT Brass connector	2" or 2.5" BSPT Brass connector
Brine line	3/8" QC Elbow	3/8" QC Elbow	3/8" or 1/2" QC Elbow	1/2" or 1"BSPT Straight or Elbow QC	1/2" or 1"BSPT Straight or Elbow QC	1/2" or 1"BSPT Straight or Elbow QC
WORKING CONDITIONS						
Power supply	INPUT: 100-240V AC 50/60Hz - OUTPUT: DC 12V/1A					
Max. VA	12W					
Water pressure	Service: 1.4-8.0 bar					
Temperature	1°C - 43°C					

* All flows only for valve without top or bottom distributor.

Technical overview **TWIN**



MODEL	FX TW075 2,5"	FX TW100 2,5"	FX TW150 4"
FLOW RATE			
Service flow rate @ 1 bar drop	1.8 m³/h	4.1 m³/h	9.0 m³/h
Peak Service flow rate @ 1.7 bar drop	2.4 m³/h	5.4 m³/h	12.0 m³/h
Backwash @ 1.7 bar drop	0.3 m³/h	2.0 m³/h	5.0 m³/h
ADAPTER & BASE SPECIFICATION			
In/out	3/4" or 1" BSPT, Straight or Elbow QC	3/4" or 1" BSPT, Straight or Elbow QC	1" or 1.25" or 1.5" BSPT
Thank thread	2.5"	2.5"	4" 8-UN
Riser tube diameter	3/4" (26,7mm OD)	3/4" (26,7mm OD)	DN40 (50mm OD)
Drain line	3/8" OD Elbow QC	3/8" or 1/2" OD QC	1" NPT or BSPT QC
Brine line	3/8" OD QC	3/8" OD QC	3/8" or 1/2" OD Elbow QC
WORKING CONDITIONS			
Power supply	INPUT: 100-240V AC 50/60Hz - OUTPUT: DC 12V/1A		
Max. VA	12W		
Water pressure	Service: 1.4-8.0 bar		
Temperature	1°C - 43°C		

* All flows only for valve without top or bottom distributor.

SALT LEVEL MONITORING & ALARM FUNCTION

Automatic low-salt monitoring with clear alerts reduces maintenance effort and ensures reliable, uninterrupted system operation. The Pallas FX valves offer an integrated salt alarm function based on actual salt level measurement. This is achieved using the **Pallas FX Salt Level Sensor SL02**, a highly user-friendly and reliable device.

When the salt level drops below the preset level:

- + An audible alarm is activated
- + The word **“SALT”** flashes on the display, prompting timely refilling



Advantages

- + **Universal**
The adjustable installation angle allows an easy adaptation to different brine tank sizes and shapes
- + **Straightforward**
Audible and visual alerts when the salt level falls below the preset limit
- + **Performant**
Ensures the consistent performance of your water softener

Installation

The installation of the the **Pallas FX Salt Level Sensor SL02** is **quick and simple**. Thanks to its universal design, the SL02 can be installed in virtually **all brine tanks**.

- + Connect the sensor cable directly to the backplate of the Pallas FX valve
- + Set the desired salt level by positioning the sensor at the height where the alarm should be triggered.
- + Install the salt level sensor on the brine tank

