

PFS SERIES

Turn-Key Filtration Pump System

- Compact, self-contained filtration system
- True turn-key skid-mounted design
- Custom designs available to fit your needs

A single skid-mounted system integrating a centrifugal pump and filter housing. Factory assembled and tested for turn-key installation, available with an LP Series multi-bag filter or a 98 Series automatic strainer.



HOW IT WORKS

This single skid-mounted system integrates a centrifugal end-suction pump and a filter housing. The pump draws liquid from below-grade or gravity-fed sources and delivers it through either a bag filter housing or an automatic strainer for inline solids removal.

A control panel monitors differential pressure (dP) across the system. When the preset limit is reached:

- Bag filter system: The pump shuts down, and the panel indicates that the filter elements require replacement.
- Automatic strainer system: A self-cleaning cycle is initiated to remove accumulated solids and maintain continuous operation.

APPLICATIONS

- Industrial manufacturing
- Cooling tower systems
- Industrial fluid conditioning
- Process water filtration
- Well / surface water
- Pre-filtration for RO systems
- Steel mills & foundries, quench water filtration
- Produced water & salt water disposal (SWD)
- Pulp & paper
- Chemical process screening
- Industrial waste water treatment
- Solid-liquid separation in mining and mineral processing operations

Application Support

Fil-Trek helps match replacement elements or design new systems with balanced media, housing, and application support. Contact us for more information.

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MULTI-BAG HOUSING

PHYSICAL SPECIFICATIONS

Inlet/Outlet	Standard sizes: 4" to 8" (flanged); Contact us for more options
Flow Rates	Standard: 250 gpm to 1100 gpm; Contact us for more options
Pump	End Suction Centrifugal Pump; Contact us for more options
Certifications	ASME U; ASME UM; CE; NB; CRN; NSF 61
Available Materials	Standard offering: Carbon Steel, Stainless Steel 304 & 316. Optional: Hastelloy C276, AL6XN, Duplex 2205, Super Duplex 2507, Monel 400, Titanium & FPR, Rubber Lined or PFA lined.
Filtration Type	Multi-bag filter housing, with perforated baskets and your choice of bag design
Screen Micron Range	1 to 200 micron
Design Conditions	150 PSI / 200°F (10 Bar / 93°C)

SIZING GUIDELINES

Flange	Flow (GPM)	Power (HP)	Multi-Bag Housing
4"	250	15	LP18 (3 bags)
6"	400	20	LP20 (4 bags)
6"	500	30	LP22 (5 bags)
6"	650	40	LP24 (6 bags)
8"	750	40	LP26 (7 bags)
8"	900	50	LP28 (8 bags)
8"	1100	50	LP30 (10 bags)

AUTOMATIC STRAINER

PHYSICAL SPECIFICATIONS

Inlet/Outlet	Standard sizes: 4" to 8" (flanged); Contact us for more options
Flow Rates	Standard: 250 gpm to 1100 gpm; Contact us for more options
Pump	End Suction Centrifugal Pump; Contact us for more options
Certifications	ASME U; ASME UM; CE; NB; CRN; NSF 61
Available Materials	Standard offering: Carbon Steel, Stainless Steel 304 & 316. Optional: Hastelloy C276, AL6XN, Duplex 2205, Super Duplex 2507, Monel 400, Titanium & FPR, Rubber Lined or PFA lined.
Filtration Type	Automatic strainer, with wedge wire baskets, SS316 standard or match housing MOC
Screen Micron Range	50 to 1,000 micron (increments of 25 micron)
Design Conditions	150 PSI / 200°F (10 Bar / 93°C)

SIZING GUIDELINES

Flange	Flow (GPM)	Power (HP)	Automatic Strainer
4"	250	15	98-10-4F
6"	400	20	98-12-6F
6"	500	30	98-12-6F
6"	650	40	98-12-6F
8"	750	40	98-14-8F
8"	900	50	98-16-8F
8"	1100	50	98-16-8F

FIL-TREK REMOTE MONITORING PLATFORM

The PFS Series offers optional remote cellular monitoring through the Fil-Trek platform. This plug-and-play solution provides secure real-time monitoring of differential pressure, pump and valve status, and cleaning cycles through a cloud-based dashboard. It also provides instant fault alerts to help maximize uptime and reduce unplanned downtime. Contact us for more information.



For more information, e-mail: sales@fil-trek.com or visit Fil-Trek.com.

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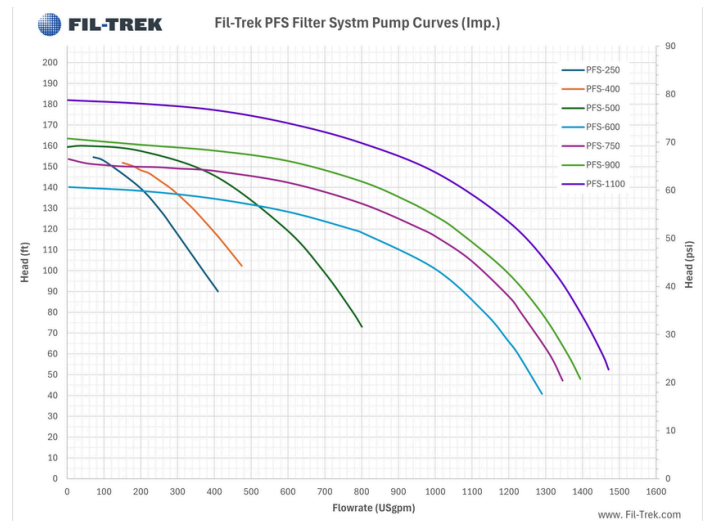
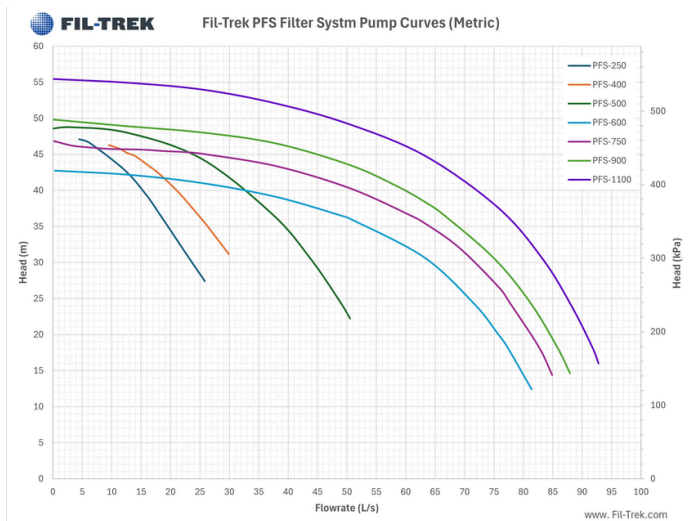
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CONTROL LEVEL OPTIONS

	L1 Standard Controller	L2 Custom Configurable	L3 Custom Hazardous Area (NEC or ATEX)
Power Input	220V/1P, 220V/3P, 380V/3P, 460V/3P, 575V/3P	220V/1P, 220V/3P, 380V/3P, 460V/3P, 575V/3P	220V/1P, 220V/3P, 380V/3P, 460V/3P, 575V/3P
Control Panel	NEMA 4 enclosure, Siemens PLC & HMI with motor starter. A soft starter is used on larger units	NEMA 4 or 4X, any PLC & HMI (Siemens, Allen-Bradley, Omron, ABB, etc.) with VFD	NEMA 7 or Pressure+Purge Panel, any PLC & HMI (Siemens, Allen-Bradley, Omron, ABB, etc.)
Automation	<ul style="list-style-type: none"> ▪ Field adjustable: DP setpoint, clean cycle duration (autostrainers), purge duration (autostrainers) ▪ Manual override 	<ul style="list-style-type: none"> ▪ Customizable package to match your process requirements 	<ul style="list-style-type: none"> ▪ Customizable package for Hazloc areas to match your process requirements

PUMP PERFORMANCE



ORDERING INFORMATION

S6	PFS	LP	250	4F	L1	-
MOC	MODEL	VESSEL SERIES	FLOW RATE	INLET/OUTLET & STYLE	CONTROL LEVEL	OPTIONAL
S4 - SS304 S6 - SS316	PFS - ASME Code	98 - 98 Series Automatic Strainer LP - LP Series Multi-Bag Housing	See Sizing Table	4F - Flanged 6F - Flanged 8F - Flanged	L1 - Standard L2 - Custom L3 - Hazloc	Contact factory for options



For more information, e-mail: sales@fil-trek.com or visit Fil-Trek.com.