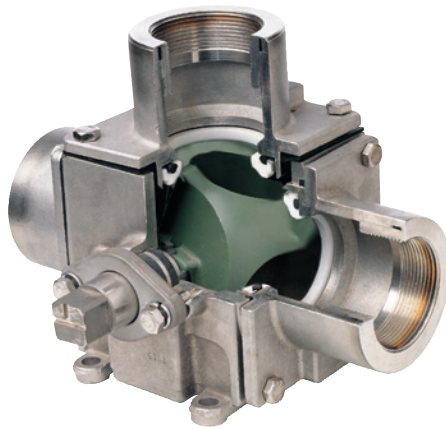


Tubular Backwashing Filter

Components & Options



Eaton offers tubular backwashing systems with a full spectrum of standard and optional features. You can customize a system to precisely fit the demands of your application and process. Our experienced team can help seamlessly integrate a filtration solution into your new or existing application for optimum performance.



3-way ball valves

To ensure positive sealing and maximum flow, Eaton's F-Series filters and AFC Multiplex Filters feature the industry's best 3-way ball valves. These important components—designed and manufactured exclusively for Eaton systems—were developed specifically for the demands of industrial filtration. The full-ported design reduces pressure drop and requires no additional linkages for actuation.



Powering Business Worldwide

TUBULAR BACKWASHING CONTROL OPTIONS



Allen-Bradley MicroLogix

The Allen-Bradley PLC controls the backwash process and includes a PanelView 300 display mounted on the enclosure door. PLC is housed in a NEMA 4 polyester coated carbon steel enclosure. Backwash is initiated by a signal from the supplied differential pressure switch or the interval timer. Automation includes rotary actuators, solenoid valves, differential pressure switch, power light, and disconnect switch.



Siemens S7-200

The Siemens PLC controls the backwash process and includes a display module mounted on the enclosure door. PLC is housed in a NEMA 4 polyester coated carbon steel enclosure. Backwash is initiated by a signal from the supplied differential pressure switch or the interval timer. Automation includes rotary actuators, solenoid valves, differential pressure switch, power light, and disconnect switch.



Semi-Automatic

The semi-automatic design includes rotary actuators, solenoid valves, differential pressure switch, and a terminal strip for wiring to the customer's control system. The enclosure is polyester coated carbon steel and is mounted to the filter frame. Includes mode lights and selector switch (run/stop/backwash).

WIDE RANGE OF AVAILABLE OPTIONS

Eaton tubular backwashing systems can be ordered with a wealth of custom options to precisely match your application and business demands. Examples include:

- ASME code vessels (F-Series housings only)
- Quick couplers on inlet and outlet of body tubes on F-Series housings for easy removal
- Back-to-back station configuration to reduce footprint (available on multiplex units with four or more stations)
- 304 stainless steel frame material
- Butterfly isolation valves on each station (AFR-Series only)
- Electropolished interiors available upon request

System and media sealing

A filtration system that leaks or allows process fluid bypass is not effective.

Eaton sealing systems are designed to ensure that even with minimal training, your operators can easily obtain a perfect seal. We also offer a wide range of elastomer materials to meet the temperature, pressure, and chemical properties of your process stream.



A total process perspective

When you choose Eaton as your filtration partner for a tubular backwashing system, you are choosing an expert. Not just in the science of filtration, but in how it can benefit your manufacturing process and even help you meet specific production objectives. We consider not just the filter, but how it integrates into your entire process. We can show you the impact that a change in filtration can offer your business.

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Differential pressure system for optimum cleaning timing

Automated systems are designed to initiate a backwash sequence when the differential pressure reaches its set point. A timer switch is also used as a backup.



Drain header trap for efficient backwashing

The addition of a simple, optional drain header trap prevents the drain header from drying out and helps minimize water-hammering during the cleaning cycle.

Diffusers optimize cleaning

For challenging solids removal, Eaton offers two styles of backwash diffusers to effectively distribute backwash flow and ensure removal of all contaminants from the filtration media.



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