



Automatic Self-Cleaning Filters & Strainers



Powering Business Worldwide

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Self-cleaning systems help assure continuous flow, simplified maintenance and worry-free operations

- Ideal for a wide range of process liquids and conditions
- Eliminates the need for disposable media including bags and cartridges—reduces disposal costs, materials loss, labor, and inventory
- Wide range of operating pressures—capable of reliable operation and performance up to 1,000 psi

For more than 50 years, Eaton has led the way with designs that meet the growing and vigorous demands of process and manufacturing industries, utilities, and municipalities around the world.

Eaton's Model 2596 automatic self-cleaning pipeline strainers are recognized across countless industries for continuous flow, simplified maintenance, and worry-free operations.

2596 2"– 8" CAST IRON OR STAINLESS STEEL

Available in 2", 3", 4", 6", and 8" sizes

- Flow rates up to 1800 gpm (409 m3/hr)
- A broad selection of screen options
- Automatic backwashing for operator-free service and minimal backwash effluent
- Exclusive idL Seal for leak free service
- Modular assembly for easy maintenance
- High-efficiency motor
- ASME Section VIII Div. 1 code stamp is available



Cenpeller™ technology improves circular flow—forcing the debris to lay up against the surface of the strainer element in a way that makes backwashing easier and more efficient.

2596 10"– 16" CAST DUCTILE IRON

Available in 10", 12", 14" and 16" sizes

- A broad selection of screen options
- Flow rates up to 6500 gpm (1476 m3/hr)
- Automatic backwashing for operator-free service and minimal backwash effluent
- Exclusive idL Seal for leak free service
- Unitized modular assembly for easy maintenance
- Cast ductile iron construction
- ASME Section VIII Div. 1 code stamp is available



2596 10"– 60" FABRICATED

Available in 24", 30", 36", 48", and 60" sizes with a broad selection of screen options

- Flow rates up to 35,000 gpm (7949 m3/hr)
- Automatic backwashing for operator-free service and minimal backwash effluent
- Exclusive idL Seal for leak free service, (available up to 24" only)
- Unitized modular assembly for easy maintenance
- Fabricated carbon steel construction. Also available in various grades of stainless steel, copper nickel, monel, and other exotic materials.
- ASME Section VIII, Div. 1. code stamp available.
- Flanged, screwed, or socket weld connections
- ASME Section VIII Div. 1 code stamp is available



AFC-SERIES TUBULAR BACKWASHING FILTER

When an application demands high-pressure operation – up to 1,000 psi (69 bar) – and scalable flexibility, the Eaton AFC-Series is the optimal choice. Systems are available in single, duo, and multiplex configurations.

- Solids removal from 2 to 1,700 microns
- Flow rates up to 3,000 gpm (681 m³/hr)
- Smooth pipe and nozzle connection transitions to avoid dead spots in the fluid stream and minimize pressure drop
- Numerous automated backwash options for operator-free service and minimal backwash effluent (<2% of system volume)
- 3-way valves on multiplex filters allow fast, frequent sequencing and maximum backwashing cleaning force



F-SERIES TUBULAR BACKWASHING FILTER

For liquid filtering that requires unattended operation, maximum uptime, and solids removal from 2 to 1,700 microns, the Eaton F-Series delivers unbeatable performance.

- Flow rates up to 3,000 gpm (681 m³/hr)
- Smooth pipe and nozzle connection transitions to avoid dead spots and minimize pressure drop
- 3-way valves on multiplex filters allow fast, frequent sequencing and maximum backwashing cleaning force
- Isolated top-to-bottom backwash ensures efficient media cleaning
- Numerous automated backwash options for operator-free service and minimal backwash effluent (<2% of system volume)



AFR-SERIES TUBULAR BACKWASHING FILTER

The revolutionary Eaton AFR-Series delivers high-flow filtration of water-like liquids at retentions as low as 2 micron in a compact one-square-meter footprint.

- Solids removal from 2 to 1,700 microns
- Flow rates up to 2,000 gpm (454 m³/hr)
- Numerous automated backwash options for operator-free service and minimal backwash effluent (<2% of system volume)
- Smooth pipe and nozzle connection transitions to avoid dead spots to minimize pressure drop
- Isolated top-to-bottom backwash for complete and efficient media cleaning
- Configured with an array of up to eight - 4" (101.8 mm) or 6" (152.4 mm) body tubes surrounding a central cleaning valve



DCF-400, 800, 1600 DISC CLEANING FILTER

The Eaton DCF-Series are pneumatically driven disc cleaning filters that are ideal for highly viscous, abrasive, or sticky liquids. The DCFs operate at a consistently low differential pressure and deliver simple, reliable operation in which a low initial investment is a key driving factor.

- Elimination or reduction in disposable filter bags and cartridges for reduced operator handling inventory costs and landfill waste
- Reduction in product loss, more thorough contaminant purge in a highly concentrated waste stream
- Reduction or elimination of operator intervention for safer operation
- Virtually maintenance free, near 100% uptime
- Compact design, lower capital cost to fit most installations
- Stainless steel screens from 15 micron slots to 1/4" perforations to handle a wide range of filtration needs
- Available with UHMWPE, Urethane, Teflon, or Kynar® cleaning discs



DCF-800 - One actuator delivers simple, reliable operation with water-like liquids. Ideal where a low initial investment is a key driving factor



DCF-1600 - Two actuators isolate the actuation mechanism from the filtrate with a bridged system. The benefit is a long operating life in challenging conditions.



Our unique circular cleaning disc design (MCF design shown) ensures intimate contact with the screen to thoroughly and uniformly clean the media.

DCF-2000 DISC CLEANING FILTER

Eaton's DCF-2000 motor driven filter addresses the challenges of the paper making industry. Filters 48-72% solids coatings at 75 micron retention—believed to be the tightest in the industry

- Continuously removes contaminants from the coating and efficiently evacuates collected contaminants while operating at a low, constant differential pressure
- Mechanically cleaned media eliminates replacement media cost and the expense and hazard of waste disposal
- Increased profitability—improves system efficiency, reduces paper-breaks and associated downtime
- Multiplex configurations available and valved to a common tapered header for high-flow applications



MCF-824 SERIES MAGNETICALLY-COUPLED FILTERS

The MCF-824 filter system features a simplified design that uses only 25 total parts. Get up to 200 GPM throughput with virtually no downtime with this magnetically coupled self-cleaning filter. This technology allows for quick and easy access for maintenance, reduces potential leaks while providing a long service life.

- Permanent media retains valuable product otherwise lost by media changeout
- Simple design with very few wear parts—for reduced spare parts stocking needs
- No external shaft or drive seals—eliminates all associated leakage
- Cleanable permanent media eliminates downtime and disposal requirements
- Easy no-tools access for routine maintenance and service
- Continuous operation—even during cleaning cycles



MCS-500 & 1500 MAGNETICALLY-COUPLED STRAINERS

The MCS-500's magnetically coupled actuation eliminates the need for dynamic seals. This technology provides quick and easy access for maintenance, reduces potential leaks, and requires few moving parts while providing a long service life.

- No dynamic seals
- Minimal purge for low waste operation
- Easy in-line installation
- Continuous 24/7 operation
- Maintenance-friendly design means lower labor costs
- Eco-friendly. No bags to purchase, change, or landfill
- 316 stainless steel vessel

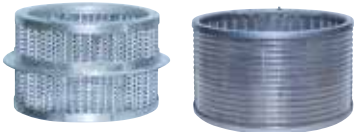
The MCS-1500 is a high-volume system with a flow rate of up to 1500 GPM.



The MCS-500 can process up to 500 GPM at up to 150 psi

FILTER AND STRAINER ELEMENTS

2596 strainers have the option of using the economical convoluted element screen or the DuraWedge® element constructed from V-shaped profile wire. Both have nonclogging features and are constructed of rugged stainless steel. Retention ratings from 380 microns to 3/16" openings are available.



There are many options available for tubular backwash filters. A wire mesh or fabric over a stainless steel backing are two cost effective solutions. A high-strength slotted wedgewire element is suitable for more abrasive applications.

The most efficient way to achieve a low flux rate is to increase active filter surface area. This has been achieved with Eaton's AccuFlux media elements featuring ultra-high surface area, clustered element designs. AccuFlux elements are available with 7 or 15 individual, replaceable filter tubes. An economical TRI-CLUSTER® design features three 1 1/2" diameter tube for 40% greater surface area than single element designs.



The Disc cleaned Model DCF, MCF and MCS require the use of a slotted wedgewire design. Ratings of 15 to 1600 microns are available.

Ratings from 2 to 1650 microns are available.

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