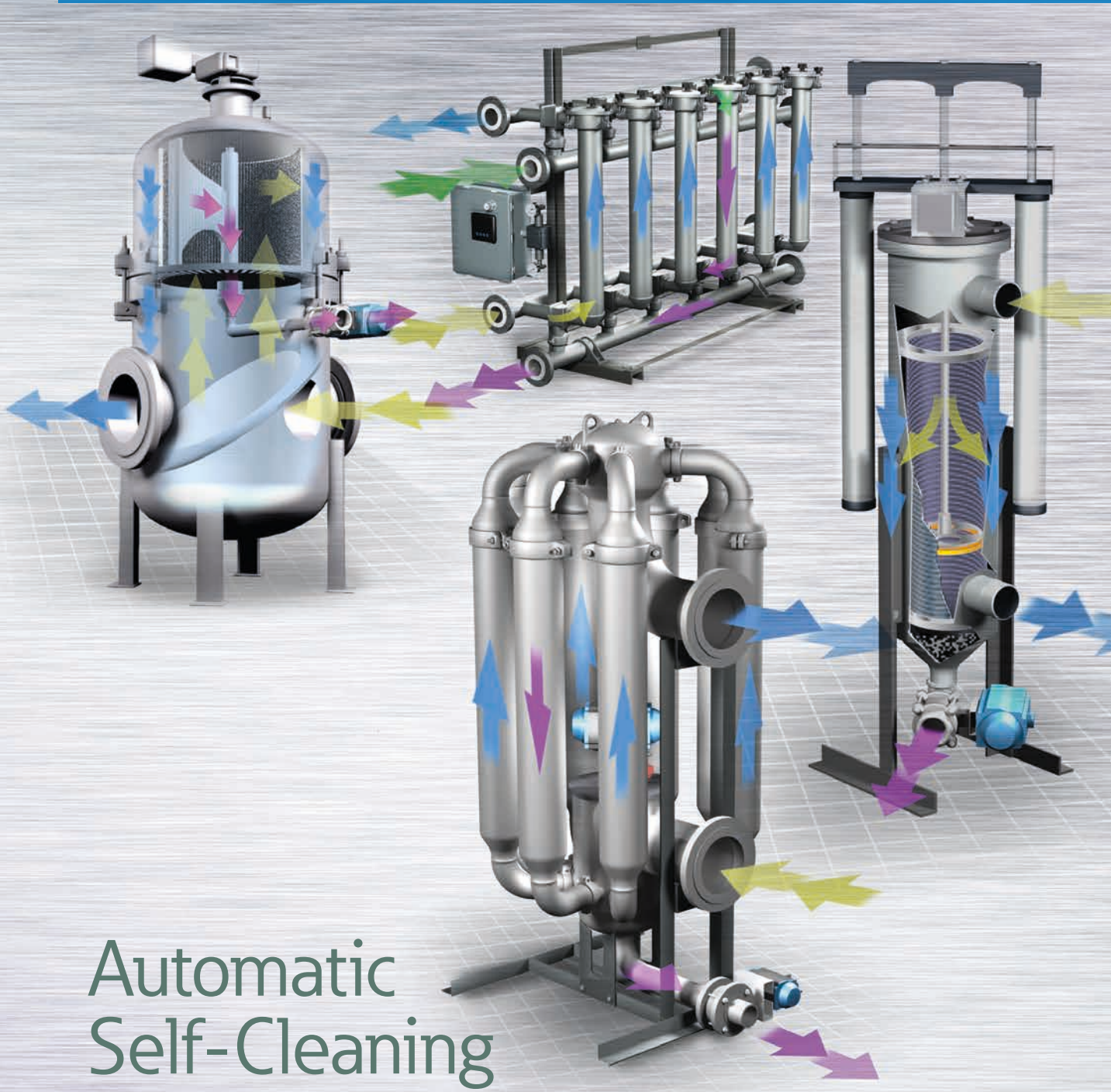
Permanent Media Systems



Automatic Self-Cleaning Filters & Strainers

EATON

Powering Business Worldwide

Automatic Self-Cleaning Filters & Strainers

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 and reduces disposal costs, materials loss, labor, and inventory
- Wide range of operating pressures and capable of reliable operation and performance

Typical applications

- Model 2596 automatic self-cleaning pipeline strainers are ideal for applications that demand continuous flow and simplified maintenance in industrial, sewage and water treatment, pulp and paper processes.
- Tubular backwashing filters are intended for tight retentions and high flow rates in a wide range of process liquids.
- Permanent media filters with disc cleaning technology are ideal for ultimate reduction in product loss.

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.

2596 2" - 36" (DN50 - DN900) FABRICATED

Available in 2", 3", 4", 6", 8", 10", 12", 14", 16", 20",24", 30" and 36" sizes with a broad selection of screen options

- Flow rates up to 7950 m^3/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 materials.
- Flanged, screwed, or socket weld connections
- Various modifications (ETO) possible on request
- Design Code AD2000, CE stamp acc. PED is availabe
- Design code EN13445 or ASME Section VIII Div. 1 code stamp is available on request

2596 2" - 8" (DN50-DN200) CAST IRON OR STAINLESS

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

- Flow rates up to 400 m^3/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" (DN250-DN400) CAST DUCTILE IRON

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

- A broad selection of screen options
- Flow rates up to 1475 m^3/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.

F-SERIES TUBLAR 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 680 m^3/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)
- Various modifications (ETO) possible on request
- Design Code AD2000, CE stamp acc. PED is availabe
- Design code EN13445 or ASME available on request

ACF-SERIES TUBLAR BACKWASHING FILTER

When an application demands high-pressure operation – up to 69 bar (1000 psi) 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 680 m^3/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

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 450 m^3/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, 3000 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 media 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
- Various modifications (ETO) possible on request
- Design Code AD2000
- CE stamp acc. PED is availabe
- Design code EN13445 or ASME available on request

DCF-800 - One actuator delivers simple, reliable operation with waterlike 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.

DCF-3000 - This dual cleaning disc and twin actuator design is ideal for highly viscous, abrasive or sticky liquids with flow rates of up to 500 gpm. For water-like liquids, it can handle flow rates up to 1500 gpm.

Our unique circular cleaning disc design (DCF-800/1600 design shown) ensures intimate contact with the screen to thoroughly and uniformly clean the media.

UHMWPE TEFLON oder KYNAR® URETHAN®

MCF MAGNETICALLY-COUPLED FILTER

The MCF filter system features a simplified design that uses only 25 total parts. Get up to 40 m³/h 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 – elimi-nates all associated leakage
- Cleanable permanent media eliminates downtime and disposal requirements
- Easy no-tools access for routine maintenance and service (5 minutes only!)
- Continuous operation – even during cleaning cycles
- Design Code AD2000
- CE stamp acc. PED is availabe

MCS-500 & 1500 MAGNETICALLY-COUPLED STRAINERS

The MCS-500`s and MCS-1500 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
- Design Code AD2000
- CE stamp acc. PED is availabe

The MCS-1500 is a high-volume system with a flow rate of up to 340 m³/h.

The MCS-500 can process up to 500 GPM at up to 110 m³/h

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 solu-tions. A high-strength slotted wedge-wire 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 econom-ical TRI-CLUSTER® design features three 1 1/2" diameter tube for 40% greater surface area than single ele-ment designs.

Ratings from 2 to 1650 microns are available.

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

Perforated or wire mesh elements available for special applications

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