Environmentally sustainable design

Eaton’s MCS 1500 magnetically coupled strainer is perfect for high-capacity straining needs. Its 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.

Features
- 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
- 316 stainless steel housing

Options
- Multi-station configuration
- EPT/EPDM (Nordel™) or Viton® seal material
- Advanced programmable microprocessors
- Construction according to “AD 2000-Merkblätter”, DIN EN 13445 or ASME Code
- Automatic pressure transmitters
- Purge welding
- High pressure units
- Air bleed capability
- 304 stainless steel controller enclosure
- Gauge port: 1/4”

The MCS Series™ is engineered to conserve valuable process water while protecting costly equipment from debris. It offers minimal purge volumes in fresh water applications, allowing you to save on the cost of make up liquids, chemical treatment and heating energy.

Featuring fast cleaning magnetically coupled actuation, this design offers an optimized configuration to help improve and reduce costly maintenance and downtime. In addition, this actuation method eliminates the need for cover thru-holes and their associated seals.

Typical applications
- paper coatings • pcc/gcc slurries • phenolic resins • petroleum based greases • ethanol processing
- cip fluids (sodium hydroxide) • hot fry oils • starch • lime slurries • curtain coaters • nutricuticals
- machining coolants • adhesives • paints • inks • chocolate • edible oils • detergents • tallow

Eaton
Powering Business Worldwide
MCS 1500 High Flow Magnetically Coupled Strainer

Up to eight MCS units can be configured into a multi-plex system for high volume requirements.

Slotted wedge wire strainer element options

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<th>Inch</th>
<th>Micron</th>
<th>Mesh</th>
<th>% Open area</th>
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</table>

Additional retentions available, consult Eaton.

MCS 1500 high flow strainer specifications

- Approx. weight: 775 lb (352 kg)
- Service height: 102 in (2,591 mm)
- Flow rate range at 100 µm: Up to 1,500 gpm (340 m³/h)
- Operating temperature, max.: 180 °F (82 °C)
- Operating pressure: 30 - 150 psi (2 - 10.5 bar)
- Viscosity: Water/water-like fluids
- Standard retention*: 150 - 1,100 microns
- Housing material: 316 stainless steel
- Elastomers: EPT/EPDM (Nordel) or Viton
- Process connections: 8 in 150# flanged/DN 200 flanged
- Purge connection: 2 in NPT/2 in BSPT
- Air for actuator drive: 80 psi (5.5 bar) min. - 116 psi (8 bar) max.
- (clean dry lubricated air) 5.0 cfm (141.5 l/min)
- Electrical for controllers: 115 VAC or 230 VAC 50/60 Hz
- Semi-auto voltage: 24 VAC, 115 VAC, 230 VAC 24 VDC, 115/230 VAC

*Mtigher retentions available. Please contact Eaton for more information.

Request a Quote Today

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