

# Sustainable Design

Eaton's MCS-1500 is perfect for highcapacity 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
- Eco-friendly. No bags to purchase, change, or landfill
- 316 stainless steel vessel

#### **OPTIONS**

- Multi-station configuration
- EPT/EPDM or FPM (Viton®)
- Advanced programmable microprocessors
- ASME Code units
- Automatic pressure transmitters
- Purge welding
- High pressure units
- Air bleed capability
- 304 stainless steel controller enclosure
- Gauge port: 1/4"

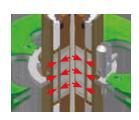
#### The MCS-Series is engineered to conserve valuable process water while protecting costly equipment from debris. It offers minimal purge volumes in fresh water applications, allowing you to save on the cost of make up liquids, chemical treatment and heating energy.

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 nutraceuticals
- machining coolants adhesives paint ink chocolate edible oils detergents tallow





The actuation piston and cleaning disc are coupled by powerful rare earth magnets—a simple design that delivers tremendous benefits by eliminating the need for shaft or external drive seals

## MCS-1500 High Flow Magnetically Coupled Strainer

HIGH FLOW MCS-1500 SPECIFICATIONS			
Approx Weight	775 lbs (352 kg)		
Service Height	102 in (2,591 mm)		
Flow Rate Range at 100 µm	1,100 gpm (250 m³/h)		
Flow Rate, max.	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		
Vessel Material	316 Stainless Steel		
Elastomers	EPT/EPDM or FPM (Viton®)		
Process Connections	8 in 150# Flanged / DN 200 Flanged		
Purge Connection	2 in NPT / 2 in BSPT		
Air for Actuator Drive (clean dry non lubricated air)	80 psi (5.5 bar) min 116 psi (8 bar) max. 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		

<sup>\*</sup>Tighter retentions available. Please call for more information.



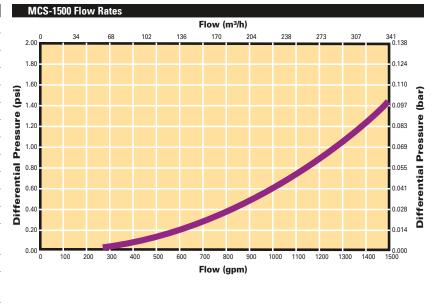
Up to eight MCS units can be configured into a multiplex system for high volume requirements.

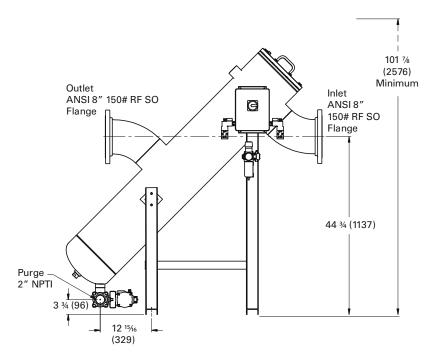
#### Slotted Wedge Wire Strainer **Element Options**

Micron	Mesh	% Open Area
50	325	6
75	200	9
100	150	12
150	100	17
180	80	19
200	70	21
230	60	23
380	40	33
600	30	44
700	20	50
1140	15	60
	50 75 100 150 180 200 230 380 600 700	50 325   75 200   100 150   150 100   180 80   200 70   230 60   380 40   600 30   700 20

Additional retentions available, consult Eaton.







Viton® is a registered trademark of E. I. du Pont de Nemours and company.

North America 44 Apple Street

Tinton Falls, NJ 07724 Toll Free: 800 656-3344 (North America only) Tel: +1 732 212-4700

Europe/Africa/Middle East

Auf der Heide 2 53947 Nettersheim, Germany Tel: +49 2486 809-0

Friedensstraße 41 68804 Altlußheim, Germany Tel: +49 6205 2094-0

An den Nahewiesen 24 55450 Langenlonsheim, Germany Tel: +49 6704 204-0

China No. 3, Lane 280, Linhong Road Changning District, 200335 Shanghai, P.R. China

Tel: +86 21 5200-0099

100G Pasir Panjang Road #07-08 Singapore 118523 Tel: +65 6825-1668

Av. Ermano Marchetti, 1435 -Água Branca, São Paulo - SP, 05038-001, Brazil Tel: +55 11 3616-8461

For more information, please email us at filtration@eaton.com or visit www.eaton.com/filtration

© 2020 Eaton. All rights reserved. All trademarks and registered trademarks are the property of their respective owners. All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such

US

12-2020

products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Eaton as to the effects of such use or the results to be obtained. Eaton assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or

government regulations.

