

## **FEATURES**

- No dynamic seals
- Minimal purge for low waste operation

providing a long service life.

- 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

## OPTIONS

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

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.



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.

## 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 paint ink chocolate edible oils detergents tallow



# MCS-500 Magnetically Coupled Strainer

HIGH FLOW MCS-500 SPECIFICATIONS				
Approx Weight	350 lbs (159 kg)			
Service Height	66 in (1,676 mm)			
Flow Rates at 100 µm	Up to 500 gpm / 114 m³/h			
Operating Pressure	30-150 psi (2-10.5bar)			
Operating Temperature, max.	180 °F (82 °C)			
Viscosity	Water/water-like fluids			
Standard Retention*	150–1,100 microns			
Vessel Material	316 Stainless Steel			
Elastomers	EPT/EPDM or FPM (Viton®)			
Process Connections	6 in 150# Flanged / DN 200 Flanged			
Purge Connection	$1\frac{1}{2}$ in NPT / $1\frac{1}{2}$ in BSPT			
Air for Actuator Drive	80 psi (5.5 bar) min 116 psi (8 bar) max.			
(Clean, dry, non 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			

<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**

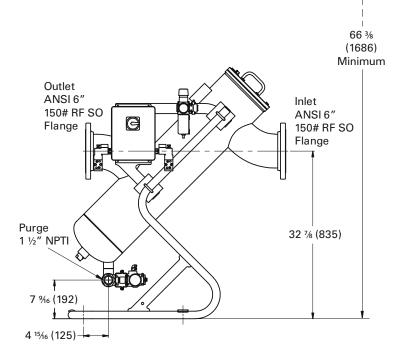
Inch	Micron	Mesh	% Open Area
IIIGII	MILCION	MESII	Alta
.002	50	325	6
.003	75	200	9
.004	100	150	12
.006	150	100	17
.007	180	80	19
.008	200	70	21
.009	230	60	23
.015	380	40	33
.024	600	30	44
.030	700	20	50
.045	1140	15	60



Additional retentions available, consult Eaton.

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

## MCS-500 Flow Rates Flow (m3/h) 136 0.069 0.80 0.055 Pressure 0.041 Differential 0.028 0.014 0.000 100 200 300 400 500 600 700 800 Flow (gpm)



# 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 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.



US 10-2020