

## Magnetically Coupled Strainer

# High-Flow MCS-500

Mechanically  
Cleaned

Permanent  
Media

*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.*



## Environmentally Sustainable Design

### 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. No bags to purchase, change or landfill
- 316 stainless steel vessel

### OPTIONS

- Multi-station configuration
- EPT/EPDM or FPM (Viton®)
- Advanced programmable microprocessors
- CE label (ASME code/CRN, others upon request)
- Automatic pressure transmitters
- Purge welding
- Air bleed capability
- 304 stainless steel controller enclosure
- Gauge ports: 1/4"

### TYPICAL APPLICATIONS

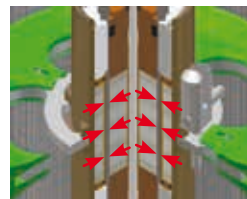
- Paper coatings • PCC/GCC slurries • Phenolic resins • Petroleum-based greases
- Ethanol processing • CIP fluids (sodium hydroxide) • Hot fry oils • Starch • Lime slurries
- Curtain coaters • Nutraceuticals • Machining coolants • Adhesives • Paint • Ink • Chocolate
- Edible oils • Detergents • Tallow

The 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 refill of 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.

# EATON

Powering Business Worldwide



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

# FLTR

Purple Engineering

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# High-Flow MCS-500: Magnetically Coupled Strainer

## HIGH-FLOW MCS-500: SPECIFICATIONS

Approx weight	159 kg
Service height	1,686 mm
Flow rate at 100 µm	40 m <sup>3</sup> /h
Flow rate, max.	114 m <sup>3</sup> /h
Operating pressure	2–10 bar
Operating temperature, max.	82 °C
Viscosity	Water/water-like fluids
Standard retention*	150–1,100 microns
Housing/wetted parts material	316 Stainless Steel
Elastomers	EPT/EPDM or FPM (Viton®)
Process connection	DN 150 Flanged PN 16
Purge connection	DN 50 Flanged PN 16
Air for actuator drive (clean, dry, non-lubricated air)	5.5 bar min. – 8 bar max. 142 l/min
Electrical for controllers	230 VAC 50 Hz
Semi-auto voltage	24 VDC

\* Tighter retentions available. Please contact Eaton.



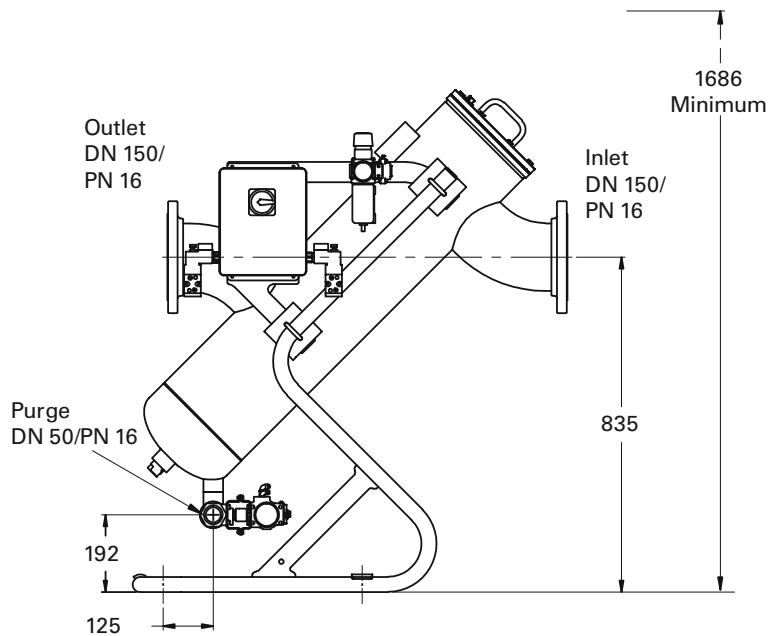
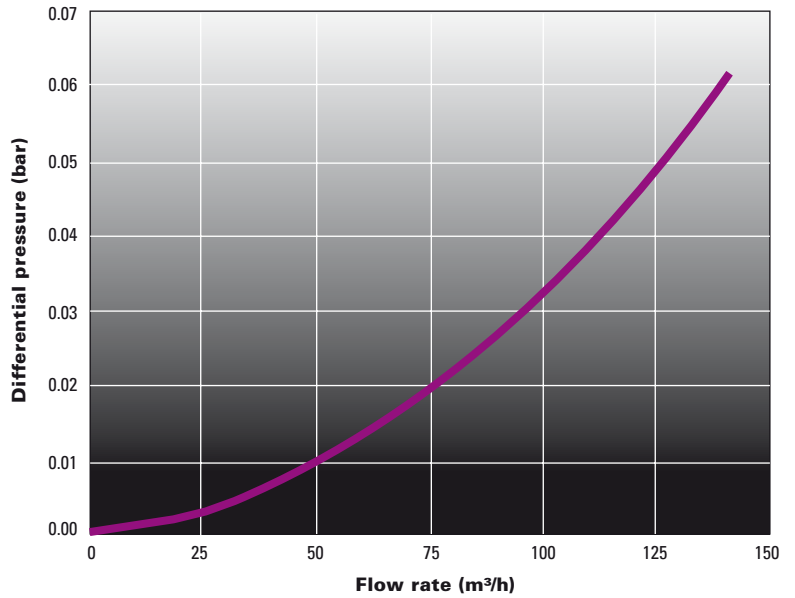
Up to eight MCS units can be configured into a multiplex system for high volume requirements

## Slotted wedge wire Strainer element options

Inch	Micron	Mesh	% open area
.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	1,140	15	60

Additional retentions available. Please contact Eaton.

## HIGH-FLOW MCS-500: FLOW RATES



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



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