

Simplified design uses only 25 total parts

Up to 200 GPM throughput with virtually no downtime with the MCF 824-Series magnetically coupled self-cleaning filter. This technology allows for quick and easy access for maintenance, reduces potential leaks, and requires few moving parts while providing a long service life.

FEATURES

- 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—eliminates all associated leakage
- Cleanable permanent media eliminates downtime and disposal requirements
- Easy no-tools access for routine maintenance and service
- Continuous operation—even during cleaning cycles

OPTIONS

- EPT/EPDM (Nordel™) or Viton® seal material
- Advanced programmable microprocessors
- ASME code and CRN design units
- Automatic pressure transmitters
- Purge welding, internal and external polishing
- Multi-station configurations
- Air bleed capability

The MCF, from Eaton, draws upon our rich history of selfcleaning filtration. The innovative, magnetically coupled drive technology that moves the cleaning disc-without the need for shaft or drive external seals—makes the MCF unique. The MCF, a cost effective solution, is designed for a wide range of industrial liquid filtration applications. It also addresses the challenges of environmental concerns, loss of valuable product, and demand for greater operator safety.

How the MCF works

Filtrate flows from the top down and from the inside of the media toward the outside to increase retention of contaminants. The unique design uses a spring loaded cleaning disc that travels top to bottom inside the filter media - removing collected contaminants. The cleaning disc and flow continually drive undesirable solids downward, where they are concentrated in the purging chamber for easy expulsion. A hollow shaft at the center of the system contains a piston with powerful rare earth magnets. These internal magnets are coupled to external magnets housed in a car-

rier connected to the cleaning disc.

Pneumatic actuation moves the inner magnet up and down

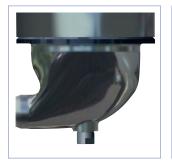
the shaft, with the outer magnet on the cleaning disc following. The result is powerful actuation, without the need for a physical linkage passing through the vessel.

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



MCF 824-Series Magnetically Coupled Filter



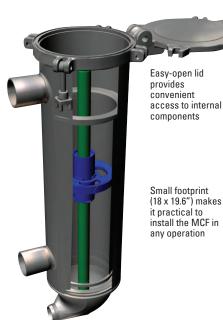
The MCF purge chamber was engineered without horizontal surfaces to facilitate flow dynamics for an extremely thorough purging process



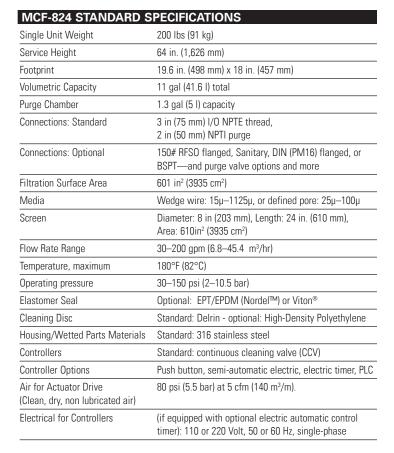
Choice of stainless steel filters include wedge wire, rated from 15 – 1125 microns or perforated screens for complete removal of large solids

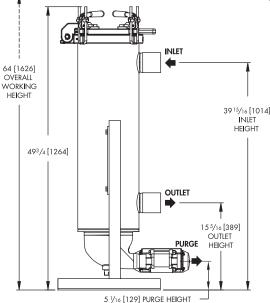


Quartered spring loaded cleaning disc combines maximum wear characteristics with optimized cleaning ability



Hand levers shown in the illustration are an available option





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