

Disc-Cleaning Filters

DCF-400D DCF-800D DCF-1600D

The Eaton DCF series is ideal for highly viscous, abrasive or sticky liquids. The DCF units operate at a consistently low differential pressure and deliver simple, reliable operation in which a low initial investment is a key driving factor.



DCF-1600D



DCF-400D



DCF-800D – One actuator delivers simple, reliable operation with water-like liquids. Ideal where a low initial investment is a key driving factor

FEATURES

- Elimination of or reduction in disposable filter elements to reduce operator intervention, inventory costs and landfill waste
- Minimum contaminant purge in a highly concentrated waste stream for a reduction in product loss
- Reduction in or elimination of operator intervention for safer operation
- Virtually maintenance-free, negligible downtime
- Compact design, lower capital cost to fit most installations
- Stainless steel screens from 15-micron slots to 1/4" perforations to handle a wide range of filtration needs
- Available with UHMWPE, urethane, Teflon or Kynar® cleaning discs

TYPICAL APPLICATIONS

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

When processing water and water-like liquids and a low initial investment is demanded, DCF single actuator models deliver tremendous benefits. Available in 400, 800 and 1600 sizes, the DCF series enables operation at a vast range of flow rates and retentions.

The DCF-800D and DCF-1600D are also available in twin actuator models, which are designed for the rigours of processing highly viscous, abrasive, sticky or otherwise hard-to-process liquids. DCF filters are suitable for a broad spectrum of challenging applications and accommodate a wide range of flow and retention requirements.



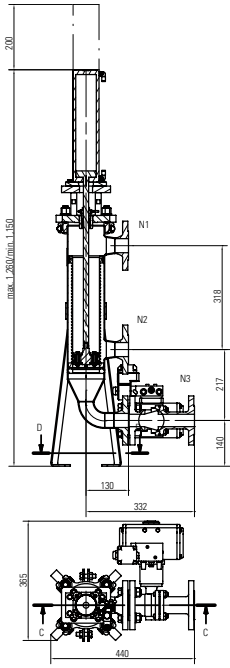
DCF-1600D – Two actuators isolate the actuation mechanism from the filtrate with a bridged system. The benefit is a long operating life in challenging conditions.

DCF-800D twin actuator model

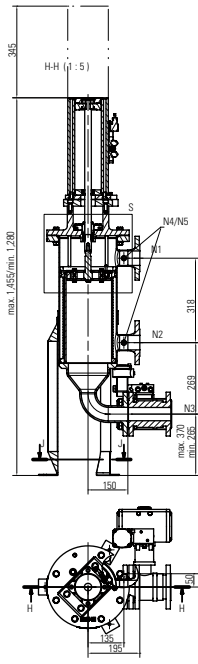


Our unique circular cleaning disc design (MCF design shown) ensures precise contact with the screen to thoroughly and uniformly clean the media.

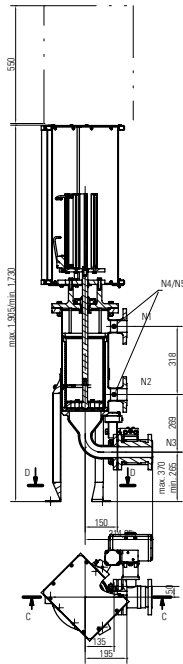
Technical Information



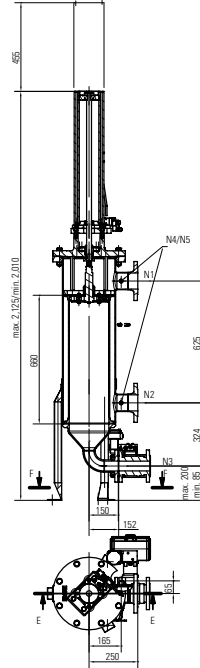
DCF-400D



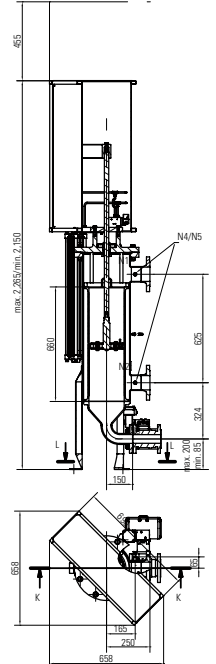
DCF-800D



DCF-800D
Twin



DCF-1600D



DCF-1600D
Twin

	DCF-400D	DCF-800D	DCF-1600D
Single unit weight	approx. 21 kg	approx. 45 kg	approx. 156 kg
Service height	approx. 1,460 mm	approx. 1,800 mm	approx. 2,720 mm
Total volumetric capacity	approx. 4.6 litres	approx. 15.0 litres	approx. 42.0 litres
Purge chamber capacity	approx. 0.2 litres	approx. 0.9 litres	approx. 2.5 litres
Filtration surface area	722 cm ²	1704 cm ²	3995 cm ²
Max. flow rate	max. 6.5 m ³ /h	max. 13 m ³ /h	max. 40 m ³ /h
Temperature, maximum*	10–200 °C	10–200 °C	10–200 °C
Pressure, maximum	1.5–10 bar	1.5–10 bar	1.5–10 bar
Air requirements for single actuator	5.5 bar @ 142 l/min.	5.5 bar @ 142 l/min.	5.5 bar @ 142 l/min.
Housing connections			
N1/N2/N3 (inlet, outlet, purge)	DN40 PN16	DN50 PN16	DN80 PN16; DN50 PN16

* Dependent on elastomer seal and cleaning disc material selection.

For more information:

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