

Disc Cleaning Filters

DCF-400 DCF-800 DCF-1600

Mechanically Cleaned
Permanent Media

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



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

FEATURES

- Elimination or reduction in disposable filter bags and cartridges for reduced operator handling inventory costs and landfill waste
- Reduction in product loss, more thorough contaminant purge in a highly concentrated waste stream
- Reduction or elimination of operator intervention for safer operation
- Virtually maintenance free, near 100% uptime
- 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 where 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-800 and DCF-1600 are also available in twin actuator models, which are designed for the rigors 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-800 twin actuator model

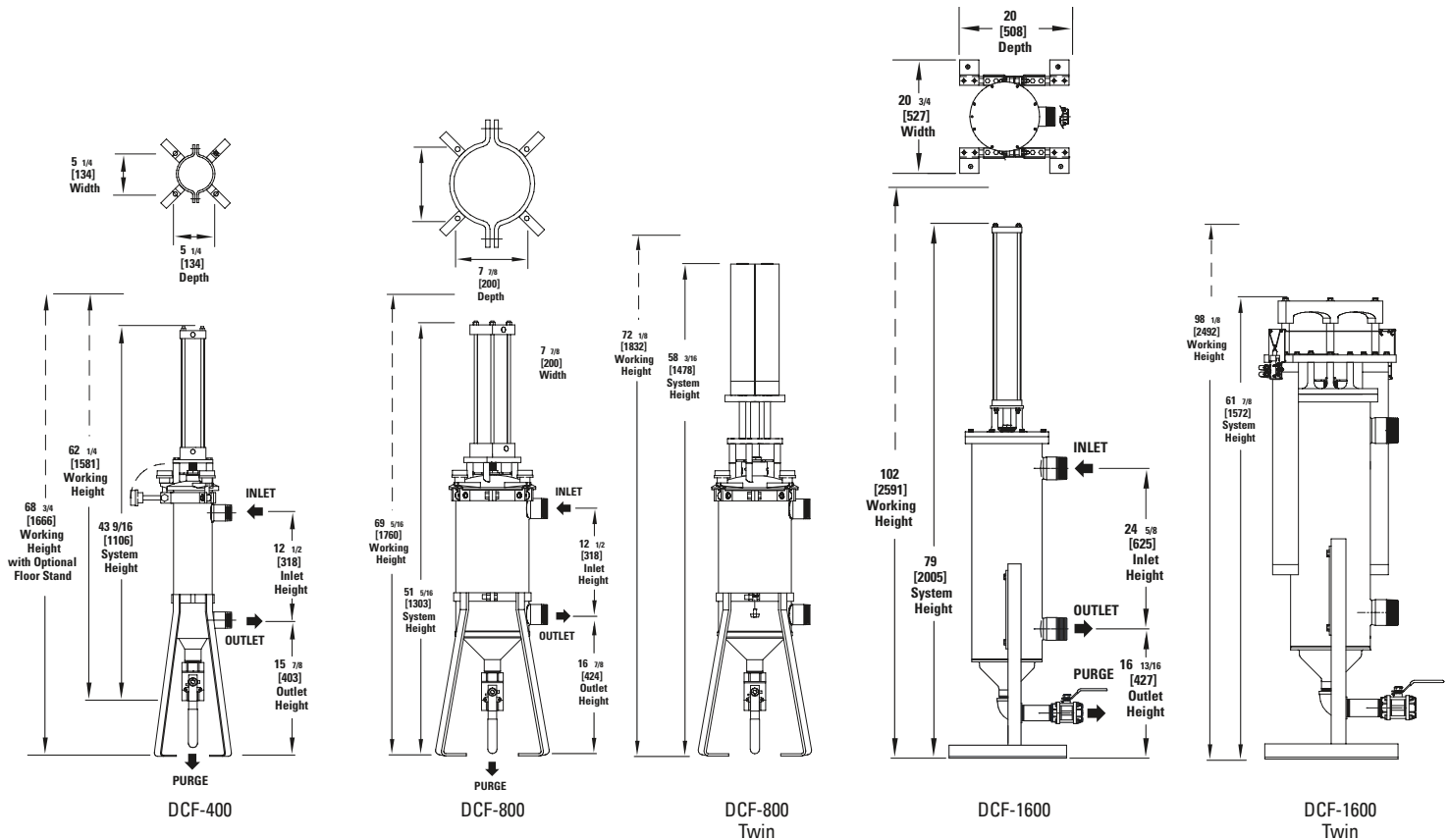
DCF-1600 - Two actuators isolate the actuation mechanism from the filtrate with a bridged system. The benefit is a long operating life in challenging conditions.

EATON

Powering Business Worldwide



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



| | DCF-400 | DCF-800 | DCF-1600 |
|-----------------------------|--|---|---|
| Single Unit Weight | 35 lbs (16 kg) | 75 lbs (34 kg) | 215 lbs (97.5 kg) |
| Service Height | 61.25 in (1556 mm) | 69.25 in (1760 mm) | 102 in (2591 mm) |
| Total Volumetric Capacity | 0.94 gal (3.5 l) | 3.9 gal (14.8 l) | 11 gal (41.6 l) |
| Purge Chamber Capacity | 4 fl. oz (119 ml) | 25 fl. oz (0.74 l) | 1.5 gal (6 l) |
| Filtration Surface Area | 112 in ² 722 cm ² | 264 in ² 1703 cm ² | 610 in ² 3935 cm ² |
| Flow Rate Range at 100µ | 2–15 gpm 0.45–4.5 m ³ /h | 20–60 gpm 4.5–13.6 m ³ /h | 60–180 gpm 13.6–45.4 m ³ /h |
| Temperature, maximum* | 350 °F (177 °C) | 350 °F (177 °C) | 350 °F (177 °C) |
| Pressure, maximum | 300 psi (21 bar) | 150 psi (10.5 bar) standard | 150 psi (10.5 bar) standard |
| Service Requirements | | | |
| Air for Actuator Drive, min | 400/800 = 60 psi at 5 cfm (4 bar @ 8.5 m ³ /min) 1600 = 80 psi at 5 cfm (5 bar @ 8.5 m ³ /min) | | |
| Electrical for Controllers | Control for all three models, automated only, 110/220V, 50/60 Hz, single phase | | |

* Dependent on elastomer seal and cleaning disc material selection.

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

Kynar® is a registered trademark of Arkema Group.

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

China
No. 3, Lane 280,
Linhong Road
Changning District, 200335
Shanghai, P.R. China
Tel: +86 21 5200-0099

Europe/Africa/Middle East
Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

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

Friedensstraße 41
68804 Altlußheim, Germany
Tel: +49 6205 2094-0
An den Nahewiesen 24
55450 Langenlonsheim, Germany
Tel: +49 6704 204-0

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



Powering Business Worldwide

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

US
10-2020

© 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.