

*The dual cleaning disc and twin actuator design of the DCF-3000 mechanically cleaned filter can be fabricated in a variety of materials and options. It can be used in many different applications and operating temperatures up to 200 °C. It is ideal for highly viscous or sticky liquids with flow rates of up to 110m<sup>3</sup>/h. For water-like liquids, it can handle flow rates up to 340m<sup>3</sup>/h.*



Two actuators isolate the actuation mechanism from the filtrate with a bridged system. The benefit is a long operating life for high pressure, high temperature conditions.

## FEATURES

- No need for disposable filter media reduces operating, material and disposal costs
- Minimum product loss through highly concentrated discharge of contaminants
- Virtually maintenance- and interruption-free operation
- Safe operation through reduction or elimination of operator intervention
- Compact and cost-effective design to fit most installations
- Slotted wedge wire elements in stainless steel from 15 µm and perforated filter elements up to 1/4" (6.35 mm) handle a wide range of filtration requirements
- Available with POM (Delrin®) or PEEK cleaning discs
- Optional with Eaton control unit
- Available with PED inspection, ASME U stamp on request

## 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 filtering high viscosity liquids for demanding applications, the DCF-3000 filter's twin actuator, dual disc models deliver tremendous benefits. It is available in flow rates up to 340m<sup>3</sup>/h with retentions of 15 µm to 1/4" (6.35 mm).

The DCF-3000 filter is equipped with the proven twin actuator and mechanical cleaning similar to the DCF-1600 filter. It is designed for higher flow rates and compatible with a wide range of fluid process conditions. A maximum operating pressure of 10 bar along with a maximum temperature of up to 200 °C allows for multiple seals and cleaning disc material options.



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



Powering Business Worldwide

# DCF-3000 Disc Cleaning Filters

## DCF-3000 Specifications

Approx. weight	290 kg
Service height	3,454 mm
Flow rate at 100 µm	250 m³/h
Operating pressure	2 - 10 bar
Operating temperature, max.	200 °C
Viscosity	Water-like to 500,000+ mPas
Standard retention	15 - 1,100 µm
Housing material	316 Stainless steel
Elastomers	EPDM, FPM, NBR, FEP/FPM, others on request
Cleaning discs	POM (Delrin), PEEK
Packing	PTFE, FPM, HPU
Process connections	DN 100 - DN 200 DIN flanged or 4 - 8" 150# ANSI flanged
Purge connection	DN 50 DIN flanged or 2" 150# ANSI flanged
Air for actuator drive (clean, dry, non lubricated air)	5.5 bar min. - 8 bar max. 141.5 l/min
Electrical for controllers	230 VAC 50 Hz
Semi-auto voltage	24 VDC
Flooded weight	476 kg

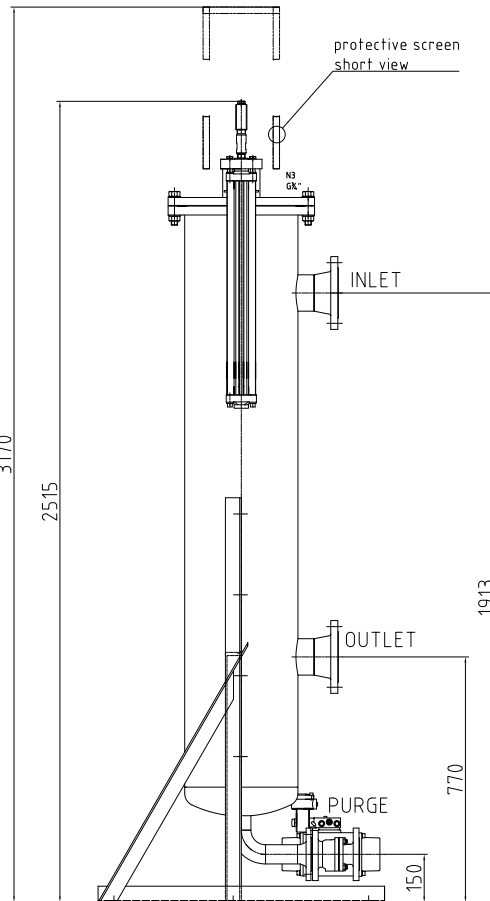
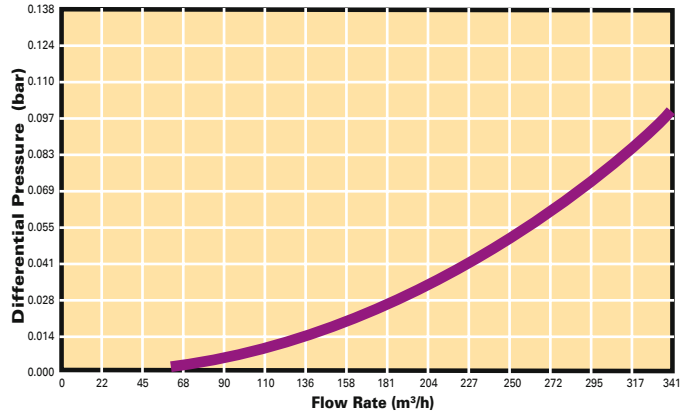
## Slotted Wedge Wire Strainer Element Options

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	1140	15	60

Additional retentions available, consult Eaton.

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

## DCF-3000 Flow Rates



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