



Donaldson Delivers

Compact Filter Unit

Fixed-Mounted Offline Filtration

Our DCF Compact Offline Filter Unit is the ideal solution for smaller hydraulic systems where larger offline systems aren't able to fit. The DCF is designed for permanent installation to keep your system running. Applications range from gear boxes, mobile and stationary hydraulic units and more.

FEATURES

Proven media: Multi-layered synthetic media with water removal which is optimized for efficiency, capacity, and flow restriction.

No modification to current circuit: The compact filter unit is able to run separate from the working circuit allowing it to clean the fluid without impacting system performance.

Validation: Independent tests show that cleaning fluid in a hydraulic circuit by as little as three ISO Cleanliness Codes can increase the life expectancy of hard components by 2x.



DCF SPECIFICATIONS

Dimensions & Weights¹	Height 8.5" (22 cm)	Length 27.75" (70 cm)	Width 8" (20 cm)	Weight 35 lbs (16 kg)
Connections	Inlet: 3/4" female SAE-ORB		Outlet: 1/2" female SAE-ORB	
Operating Temperature	Fluid Temperature: 30°F to 225°F (0°C to 105°C)		Ambient Temperature: -4°F to 104°F (-20C to 40C)	
Flow Rate	1.5 gpm (5.7 lpm)			
ΔP Indicator Trigger	35 psi (2.4 bar)			
Filter Assembly Bypass	50 psid (3.4 bard)			
Materials of Construction	Motor Steel	Pump Aluminum	Filter Assembly Aluminum	Element End Caps Nylon Glass Filled
Power Options	1/2 HP, 24 V DC, 20 A, Electric Motor			
Pump	Custom designed positive displacement gerotor pump with internal relief valve.			
Media Description	DTW High performance DT media combined with water removal media. Use for particulate and water removal. Rated at $\beta_{x(c)} \geq 1000$.			
Viscosity	1-2200 cSt Maximum viscosity based on dedicated DCF installations with positive inlet flooded suction. Contact factory for portable DCF maximum recommended viscosity with hoses and wands.			
Fluid Compatibility	Petroleum and mineral based fluids (standard). For polyol ester, phosphate ester, and other specified synthetic fluids use fluorocarbon seal option or contact factory.			

¹Dimensions and weights are approximations taken from base model and will vary according to options chosen.

SMALL SIZE, HUGE RESULTS.

The vertical design allows the installation of equipment with limited space compared to filter panels or other offline filtration equipment. At only 8.5" depth, 8" wide, and 27.75" tall, the DCF can be installed on almost any piece of industrial or mobile equipment.

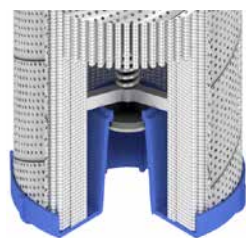


HIGH VISCOSITY PERFORMANCE.

The custom-designed gerotor pump was specifically designed to allow for a higher viscosity range than competing units. The DCF can pump up to a 2,200 cSt fluid, equivalent to an ISO 460 oil at room temperature. This increases the range of applications that are suitable without adding bulky heater options.

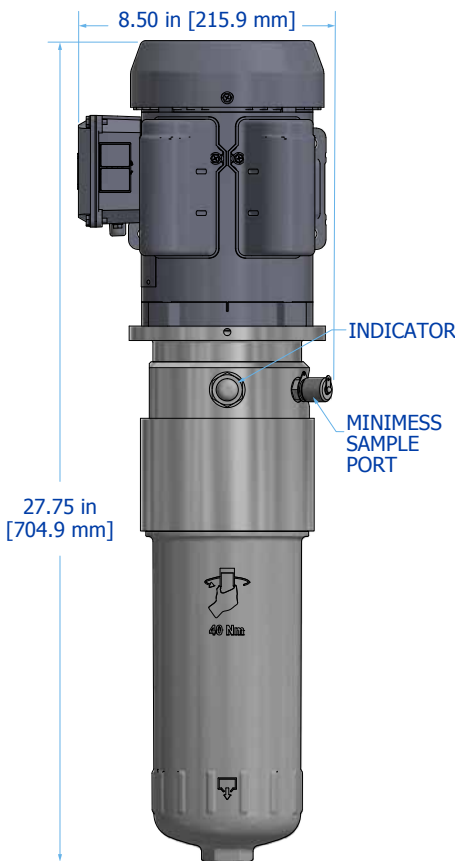
EASY FILTER ELEMENT SERVICING.

Only 1.5" of clearance is required for element servicing since the bowl and filter are removed as a single piece. The element snaps into the bowl and is automatically seated to the pump as the bowl is installed. A bowl drain comes standard as well as a hex nut for easy removal and installation. The required torque is listed on the bowl for easy reference during servicing.



REVERSE FLOW ELEMENT WITH INTEGRATED BYPASS.

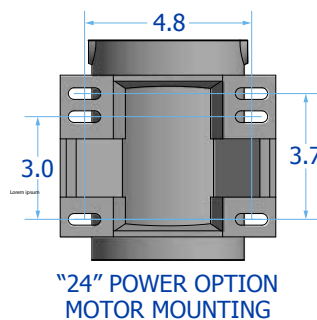
The filter elements used in the DCF utilize a reverse flow element with a bypass valve integrated into the closed end cap. The raised bypass design keeps dirt in the bottom end cap during bypass and element servicing. Every time an element is changed, a new bypass is installed eliminating bypass valve fatigue and leakage over time.



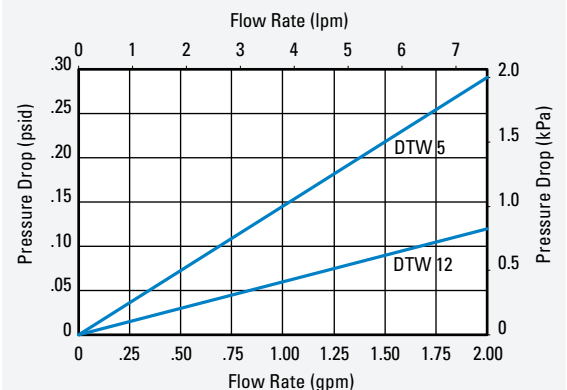
FILTER PANEL ASSEMBLY: X012223

NOTE: FILTERS ORDERED SEPARATELY

FILTER OPTIONS			
Element	Length	Media Code	Description
P582921	11"	DTW5	150 psid (3.4 bar) burst, 11" nominal, $\beta_{5(c)} \geq 1000$ + water absorbing, fluorocarbon seals standard
P582922	11"	DTW12	150 psid (3.4 bar) burst, 11" nominal, $\beta_{12(c)} \geq 1000$ + water absorbing, fluorocarbon seals standard



DCF Particulate/Water Removal Elements Only



Donaldson
FILTRATION SOLUTIONS

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