

MF3

Medium Pressure Filter Assemblies

Ideal for mobile equipment return line applications as an alternative to spin-ons, on-board fuel and dispensing and hydrostatic charge circuits.

Max Flow Rate: 100 gpm (379 lpm)

Max Operating Pressure: 1,200 psi (83 bar)

Donaldson.
HY-PRO™

hyprofiltration.com/



Filtration starts with the filter.

DFE rated advanced media technologies provide the highest level of particulate capture and retention capabilities so your equipment operates unimpeded by contamination. With media options down to $\beta_{3[C]} \geq 4000$, + water absorption, you get the perfect element for your application, every time.



HF3 Compatible Design.

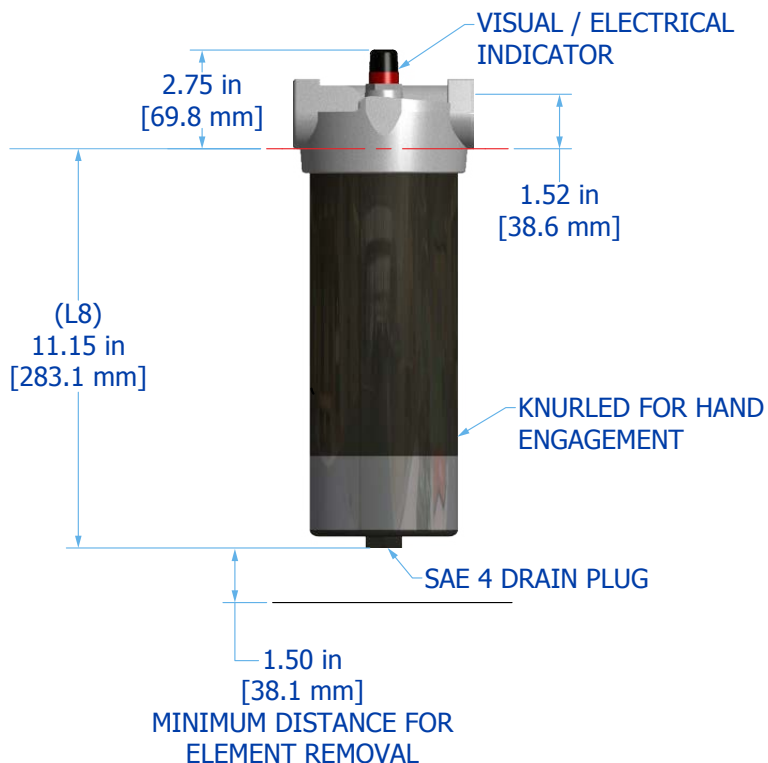
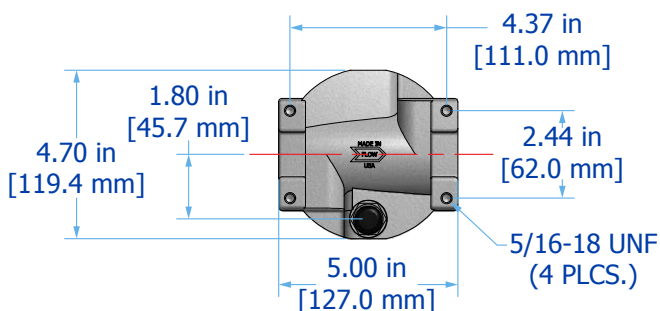
Port to port dimension, mounting pattern, and element design meet HF3 automotive specification. And with standard SAE drain ports, lightweight aluminum bowls, and knurled texture on the bowls provide ease for element servicing, you get all of the convenience you want with the compatibility you need.

Inherently versatile.

Unique internal flow paths providing a low clean pressure drop and element sizes from 4", the MF3 can be used in a variety of applications including Hydrostatic charge circuit for mobile equipment, CAT 5-Star service center, and return line alternative to spin-on assemblies.



MF3 Installation Drawing



MF3 Specifications

Dimensions	See Installation Drawings for model specific dimensions.								
Operating Temperature	Fluid Temperature 30°F to 225°F (0°C to 105°C)					Ambient Temperature -4°F to 140°F (-20C to 60C)			
Operating Pressure	1200 psi (83 bar) max								
Burst Pressure	3000 psi (206.8 bar) max								
ΔP Indicator Trigger	22 psid (1.52 bard) for 25 psid bypass 45 psid (3.10 bard) for 50 psid bypass and non bypass								
Element Collapse Rating	290 psid (20 bard)								
Materials of Construction	Head Cast aluminum		Bowl L4/L8: Cast aluminum			Element Bypass Valve Nylon		Element End Caps Zinc or Tin coated carbon steel	
Media Description	M G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta_{x_{[C]}} \geq 4000$			A G8 Dualglass high performance media combined with water removal scrim. $\beta_{x_{[C]}} \geq 4000$			W Stainless steel wire mesh media $\beta_{x_{[C]}} \geq 2$ ($\beta_x \geq 2$)		
Replacement Elements	To determine replacement elements, use corresponding codes from your assembly part number: Filter Element Part Number HP60L[Length Code] – [Media Selection Code] [Seal Code] Example HP60L16-6MB								
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.								
Filter Sizing ¹	Filter assembly clean element ΔP after actual viscosity correction should not exceed 10% of filter assembly bypass setting. For applications with extreme cold start condition contact Hy-Pro for sizing recommendations.								
ΔP Factors ¹	Length	Units	Media 1M	3M	6M	12M	16M	25M	**W
	L8	psid/gpm	0.324	0.252	0.206	0.156	0.151	0.143	0.026
		bard/lpm	0.006	0.005	0.004	0.003	0.003	0.003	0.000

¹Max flow rates and ΔP factors assume $\beta = 150$ SUS, 32 cSt. See filter assembly sizing guideline for viscosity conversion formula for viscosity change.

MF3 Part Number Builder

MF3 -

Connection Element Length Bypass ΔP Indicator Media Seal

Connection	Port Option	Max Flow Rate
	G20 1.25" G thread (BSPP)	75 gpm (284 lpm) ¹
	N20 1.25" NPT	75 gpm (284 lpm) ¹
	N24 1.5" NPT	100 gpm (379 lpm) ¹
	S20 1.25" SAE	75 gpm (284 lpm) ¹
	S24 1.5" SAE	100 gpm (379 lpm) ¹

Element Length	8	8" (20 cm) nominal length filter element and housing
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Bypass	1	25 psid (1.7 bard) bypass
	3	50 psid (3.4 bard) bypass
	X	No bypass

ΔP Indicator	D	Visual with electric switch (DIN Connection)
	V	Visual/Mechanical
	X	No indicator (port plugged)

Media Selection	G8 Dualglass	G8 Dualglass + water removal	Stainless wire mesh
	1M $\beta_{3[C]} \geq 4000$	3A $\beta_{5[C]} \geq 4000$	25W 25μ nominal
	3M $\beta_{5[C]} \geq 4000$	6A $\beta_{7[C]} \geq 4000$	40W 40μ nominal
	6M $\beta_{7[C]} \geq 4000$	12A $\beta_{12[C]} \geq 4000$	74W 74μ nominal
	12M $\beta_{12[C]} \geq 4000$	25A $\beta_{22[C]} \geq 4000$	149W 149μ nominal
	16M $\beta_{17[C]} \geq 4000$		
	25M $\beta_{22[C]} \geq 4000$		

Seals	B	Nitrile (Buna)
	V	Fluorocarbon
	E-WS²	EPR seals + stainless steel support mesh

¹Maximum recommended flow rate based on velocity through port and internal flow path. Consult sizing guidelines or consult factory for sizing based on flow rate, viscosity, temperature, filter media selection.

²Only available with ΔP Indicator option "X" selected.

For all up to date option details and compatibilites, please reference our Contamination Solutions Price List or contact customer service.

Want to find out more? Get in touch.

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