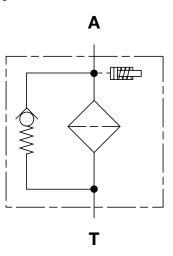
## **RFMP Series**

In-Tank Return Line Filters 100 psi • up to 26 gpm





## **Hydraulic Symbol**



#### **Features**

- The compact and lightweight design make RFMP filters especially suitable for mobile applications.
- RFMP filters integrate the head and bowl into a single one piece polyamide housing. This makes for a more leak-tight housing.
- The housing is designed so that a down tube can be attached to the outlet spout.

Note: This filter is configured with an .....R.... type (return/low pressure) element, so if the filter requires a bypass, the bypass is located in the closed end cap of the cartridge element.

## Applications



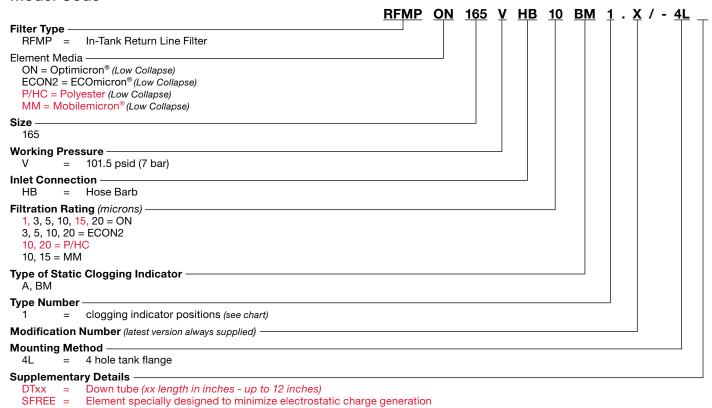


**Technical Specifications** 

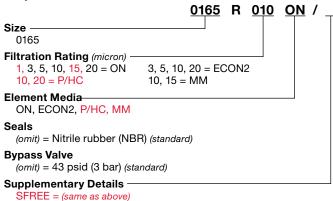
<u> </u>			
4 mounting holes - filter housing			
Inlet / Outlet			
1" Hose Barb/1.26" smooth port			
Side inlet and bottom outlet.			
Housing Lid			
Polyamide	Plastic		
26 gpm (100 lpm)			
·			
101.5 psi (7 bar)			
ng			
290 psid (20 bar)			
145 psid (10 bar)			
Fluid Temperature Range -22°F to 176°F (-30°C to 80°C)			
-22°F (-30°C)			
Compatible with all petroleum oils and synthetic fluids rated for use with nitrile rubber (NBR) seals.			
)			
rd)			
	4 mounting holes - Inlet / Outlet 1" Hose Barb/1.26' Side inlet and botto Housing Polyamide 26 gpm (100 lpm) 101.5 psi (7 bar)  145 psid (10 bar) -22°F to 176°F (-30° -22°F (-30°C) and synthetic fluids eals.		

\*Note: All RFMP Filters MAWP reduce to 7 bar (101.5 psi) when using the following "VMF" and "VR" indicators: B, BM, E, ES, GC, LE, LZ.

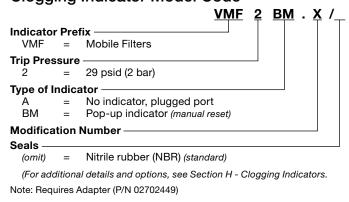
#### **Model Code**



#### Replacement Element Model Code



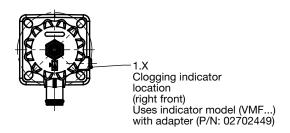
## **Clogging Indicator Model Code**

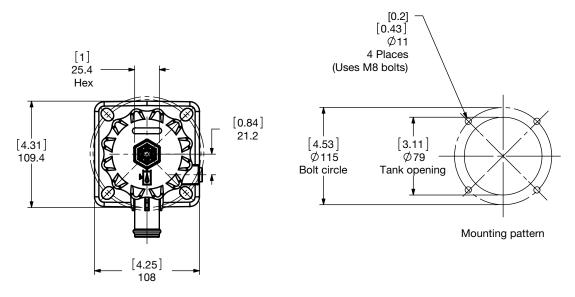


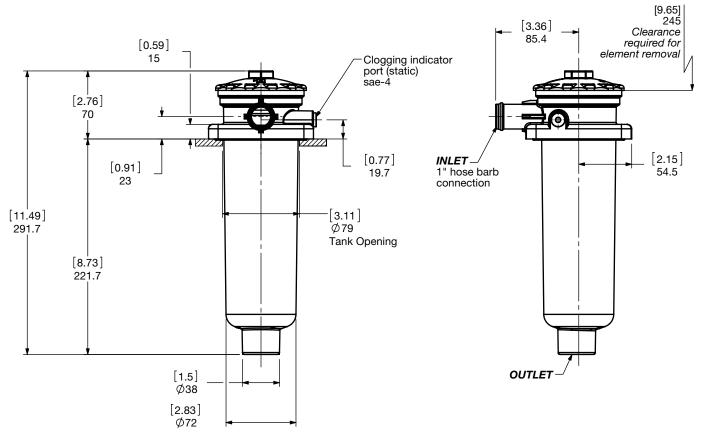
Model Codes Containing RED are non-stock items — Minimum quantities may apply – Contact HYDAC for information and availability



# Dimensions RFMP 165







Size	165
Weight (lbs.)	2.5

Dimensions shown are [inches] millimeters for general information and overall envelope size only. Weights listed include element. For complete dimensions please contact HYDAC to request a certified print

#### **Sizing Information**

Total pressure loss through the filter is as follows:

Assembly  $\Delta P$  = Housing  $\Delta P$  + Element  $\Delta P$ 

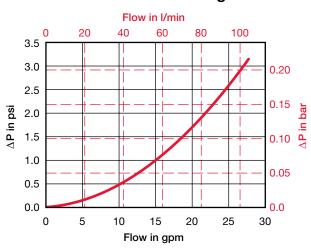
#### **Housing Curve:**

Pressure loss through housing is as follows:

Housing  $\Delta P$  = Housing Curve  $\Delta P$  x  $\frac{Actual Specific Gravity}{0.86}$ 

Adjustments must be made for viscosity & specific gravity of the fluid to be used! (see "Sizing HYDAC Filter Assemblies" in Section B - Overview)

#### **RFMP 165 Housing**



## **Element K Factors**

 $\Delta P \; \text{Elements} = \text{Elements} \; (\text{K)} \; \text{Flow} \; \text{Factor} \; x \; \text{Flow} \; \text{Rate} \; (\text{gpm}) \; x \; \frac{\text{Actual Viscosity} \; (\text{SUS})}{141 \; \text{SUS}} \; x \; \frac{\text{Actual Specific Gravity}}{0.86} \; (\text{Sub}) \; x \; \frac{\text{Actual Specific Gravity}}{141 \; \text{SUS}} \; \frac{\text{Actual Specific Gravity}}{141 \; \text{Sub}} \; \frac{\text{Actual Specific Gravity}}{141 \; \text{S$ 

Optimicron	RON					
Size	1 µm	3 μm	5 μm	10 µm	15 µm	20 μm
0165 R XXX ON	0.774	0.518	0.404	0.221	0.123	0.133

<b>ECOmicron</b>	RECON2			
Size	3 µm	5 μm	10 μm	20 μm
0165 R XXX ECON2	0.615	0.428	0.247	0.132

Mobilemicron	RMM		
Size	8 µm	10 µm	15 µm
0165 R XXX MM	0.146	0.146	0.091

Polyester	RP/HC		
Size	10 µm	20 μm	
0165 R XXX P/HC	0.033	0.016	

All Element K Factors in psi / gpm.