

In-tank Filters

OFMT100 Series

Flows to 70 L/min (18.5 USgpm)
Pressures to 7 bar (100 psi)

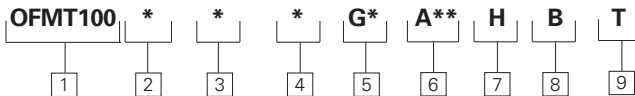


Features and Benefits

- High efficiency filter elements with superior dirt-holding capacity designed for return lines and installed semi-immersed in a reservoir
- Excellent pressure drop characteristics
- P indicator options for flexibility in system design
- Bowl length options for design flexibility
- Easy element changes
- Bypass valve prevents excessive pressure drop and prevents element collapse and release of retained contaminants back into hydraulic system
- Designed to comply with ISO standards

DESIGN SPECIFICATIONS

Rated flow:	Length 1	35 L/min (9.2 USgpm)
	Length 2	45 L/min (11.9 USgpm)
	Length 3	70 L/min (18.5 USgpm)
Fluid compatibility:	Compatible with most petroleum oil, water glycol, oil-in-water and water-in-oil fluids	
Temp range:	-25°C to +110°C (-13°F to +230°F)	
Pressure rating:	Operating	7 bar (100 psi)
	Fatigue	7 bar (100 psi)
Material:	Head	Die Cast Aluminum
	Cover and Bowl	Nylon
Dry weight: (Approximate)	Length 1	0,3 kg. (0.66 lbs.)
	Length 2	0,4 kg. (0.88 lbs.)
	Length 3	0,5 kg. (1.10 lbs.)



[1] Filter Series - OFMT 100

[2] Assembly Length

mm (inch)
1 - 102 (4.0)
2 - 145 (5.7)
3 - 225 (8.9)

[3] Breather Options

S - No breather
 C - 10 µm breather
M - 40 µm breather

[4] Seal Material

A - Buna-N
 V - Viton-A

[5] Port Options

G1 - G 3/4 to ISO 228
 G2 - G 1 to ISO 228
 G3 - G 1-1/4 to ISO 228
 G4 - 3/4" NPT
 G5 - 1" NPT
G6 - 1.0625 - 12 UN SAE -
 12 Straight thread
 G7 - 1.3125 - 12 UN SAE -
 16 Straight thread
 G8 - 1.625 - 12 UN SAE -
 20 Straight thread

[6] Fluid Cleanliness Rating

Code	cleanliness level
A03	16/14/12 or better
A06	18/16/14 or better
A10	20/18/15 or better

[7] Element Collapse Rating

H - 10 bar (150 psi)

[8] Valve Options

B - Bypass set at 1.7 bar
 (25 psi) cracking pressure

[9] Indicator Options

T - No Indicator (plug), No
 Connector

OFMT 100 Series Filter and Element Model Code

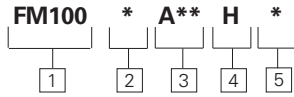
Sample model code:

OFMT1001SAG7A06HBT

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Element model code

Sample model code:

FM1002A06HA

1 Filter Element - FM 100

2 Assembly Length

- mm (inch)
- 1** - 102 (4.0)
 - 2** - 145 (5.7)
 - 3** - 225 (8.9)

3 Fluid Cleanliness Rating

Code	Target fluid cleanliness level
A03	16/15/12 or better
A06	18/16/14 or better
A10	19/17/14 or better

4 Element Collapse Rating

H - 10 bar (150 psi)

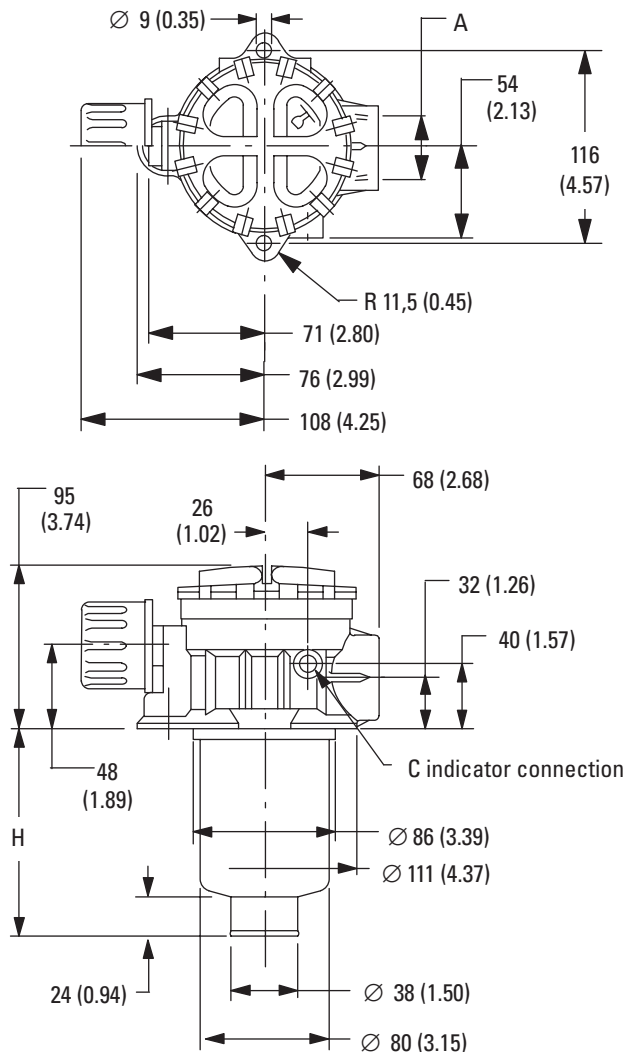
5 Seal Material

A - Buna-N
V - Viton-A

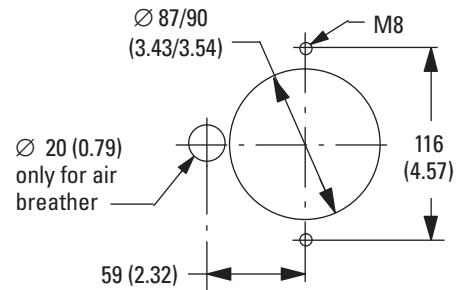
Note: Element comes with bypass set at 25 psi cracking pressure

Housing Dimensions

mm (inch)



Holes required on tank



Items not in bold are non-standard and may have a longer lead time

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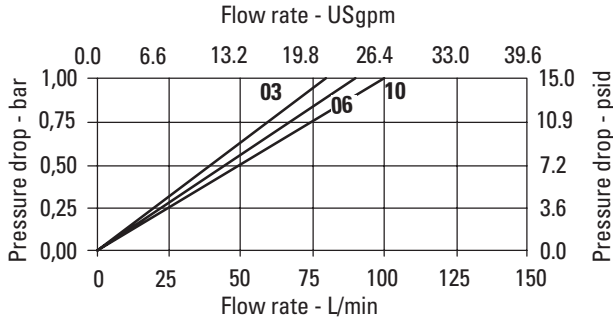
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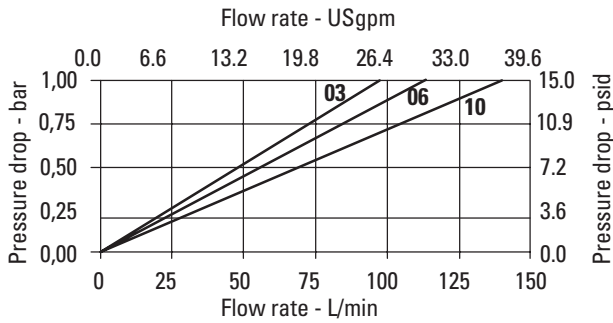
Flow Data

Element Flow Data

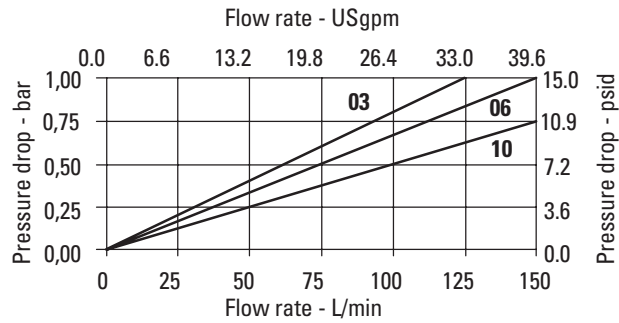
OFMT100 H-Pak Length 1



OFMT100 H-Pak Length 2

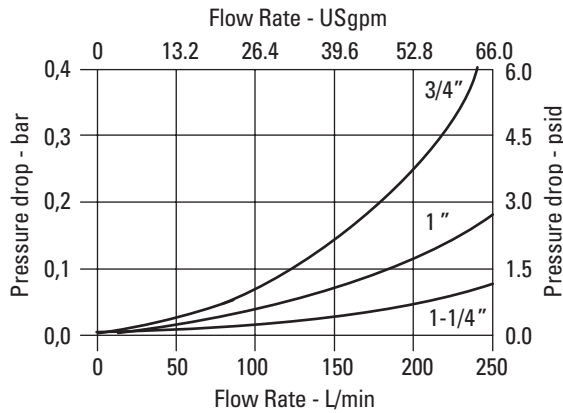


OFMT100 H-Pak Length 3



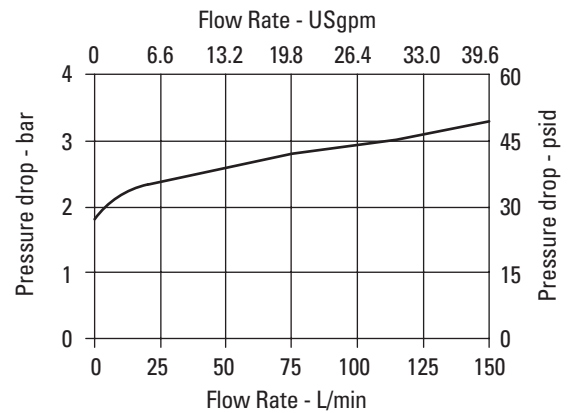
Housing/Bypass Valve Flow Data

Housing



Bypass Valve

Based on mineral oil with density of 0,86 kg/dm³.
ΔP varies proportionally to density.



Sample ΔP Calculation : OFMT1001SAG7A06HBT - Filter assembly having filter element with micron rating code '06' at 50 L/min flow rate using a hydraulic fluid at 46 cSt viscosity & specific gravity (sp.gr.)0.8.

ΔP Assembly	=	ΔP Housing	+	ΔP Element
	=	Housing ΔP from graph x sp.gr.(actual)/0.9	+	Element ΔP valve from from graph(bar/lpm) x [actual cSt / 32] x [Sp.Gr(actual) / 0.9]
	=	0.015 x 0.8/0.9	+	0.55 x 46/32 x 0.8/0.9
	=	0.013	+	0.695
	=	0.71 bar		