

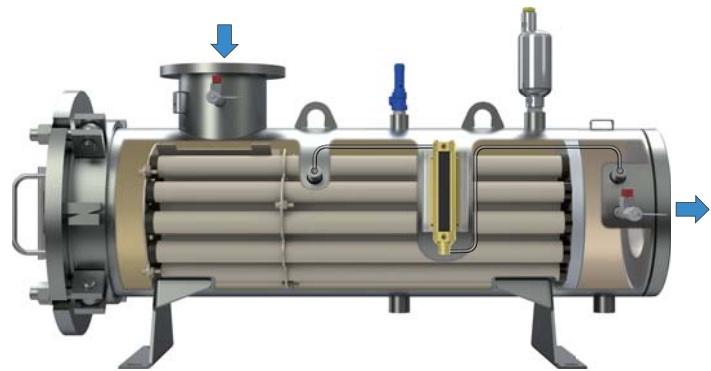
# FFM Series

# FILTER MONITOR

## Applications

FAUDI Aviation Filter Monitors are simple compact units which can easily be installed and serviced. They are developed in particular for mobile fuelling installation and can be delivered in two versions. Type FFM without and type FFMI with Interlock system.

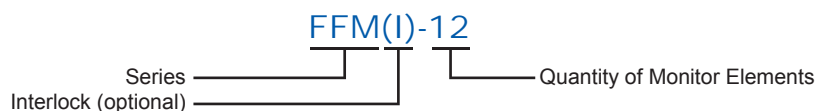
The FAUDI Aviation interlock system is an additional safety device designed to prevent closure of the cover should the full amount of monitor elements not be fitted. The interlock prevents unfiltered fuel being delivered if an element is missing



## Technical Details

- For mobile and/or stationary applications
- According to EI 1583 6<sup>th</sup> Edition
- Suitable for Jet A1, etc
- Vessel material acc. to customer request (carbon steel, stainless steel or aluminium)
- Maximal flow rate up to 4,600 l/min (higher flow rates on request)
- Max. 15 ppm free water in outlet stream
- Max. 0,26 mg/l (average) particles in outlet stream
- Outer diameter of monitor elements: 2"
- Nominale micron rating of monitor elements: 1 µm

## Sample Identification



Type	Monitor Element		Element Length		Max. Flow Rate		Volume	Weight* (FFM)	Weight* (FFMI)
	Model	Qty.	mm	inch	l/min	USGPM	≈ l	≈ kg	≈ kg
FFM- 3	M.2-770/6	3	770	30	345	91	≈ 22	≈ 50	n.a.
FFM- 5	M.2-770/6	5	770	30	575	151	≈ 22	≈ 50	n.a.
FFM-10	M.2-770/6	10	770	30	1,150	303	≈ 60	≈ 105	n.a.
FFM-12	M.2-770/6	12	770	30	1,380	364	≈ 60	≈ 120	n.a.
FFM(I)-20	M.2-770/6	20	770	30	2,300	607	≈ 85	≈ 138	≈ 145
FFM(I)-30	M.2-770/6	30	770	30	3,450	911	≈ 135	≈ 190	≈ 200
FFM(I)-36	M.2-770/6	36	770	30	4,140	1.093	≈ 170	≈ 235	≈ 248
FFM(I)-40	M.2-770/6	40	770	30	4,600	1.215	≈ 210	≈ 270	≈ 285

\* Design in carbon or stainless steel

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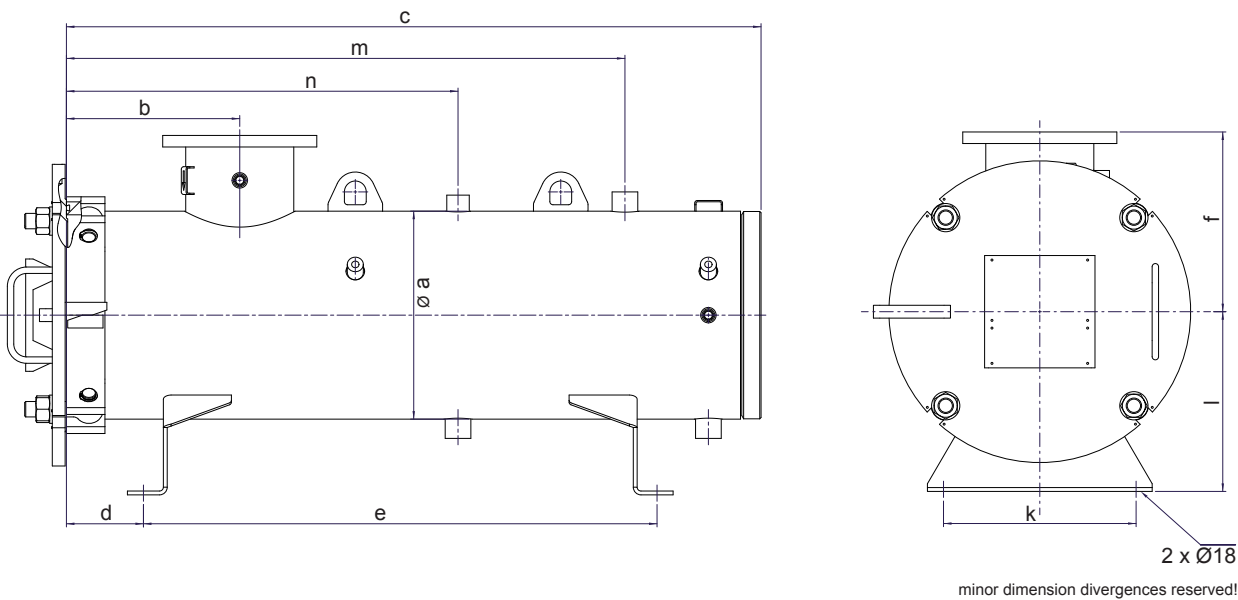


## FFM Series


### Standard Design

- Material in carbon- or stainless steel
- Cover installation with hinge (left) and swing bolts
- AD-2000 module H
- Design pressure: 16 bar
- Connections for:
  - Automatic air eliminator
  - Pressure relief valve
  - Differential pressure measuring device (2-point)
  - Sample probe connections on outlet and inlet

### Dimensions in mm for carbon steel vessel standard



Type	In-/Outlet		Dimensions in mm											
	DIN	ANSI	Ø a	b	c	c	d	e	f	k	l	FFM	FFM(I)	n
FFM- 3	DN 50	2"	168	200	1.050	n.a.	290	606	170	150	170	830	n.a.	520
FFM- 5	DN 50	2"	168	200	1.050	n.a.	290	606	170	150	170	830	n.a.	520
FFM-10	DN 100	4"	273	250	1.100	n.a.	100	820	250	250	250	870	n.a.	560
FFM-12	DN 100	4"	273	250	1.100	n.a.	100	820	250	250	250	870	n.a.	560
FFM(I)-20	DN 150	6"	324	270	1.085	1.100	120	800	280	300	280	870	890	610
FFM(I)-30	DN 150	6"	406	270	1.100	1.125	120	800	320	350	350	870	890	610
FFM(I)-36	DN 150	6"	457	270	1.100	1.135	120	800	340	450	400	870	890	610
FFM(I)-40	DN 150	6"	508	270	1.120	1.145	120	800	370	450	400	880	890	610

FAUDI Aviation GmbH Scharnhorststrasse 7 B D-35260 Stadtallendorf Germany	Phone: +49 6428 4465-275 Fax: +49 6428 4465-231 E-Mail: <a href="mailto:contact@faudi-aviation.com">contact@faudi-aviation.com</a> Web: <a href="http://www.faudi-aviation.com">www.faudi-aviation.com</a>	 <p>quality guarantees safety</p>
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## Applications

### Approved acc. to API/IP 1583 4th. Edition

The FAUDI Aviation VFM-1 (Vertical Filter Monitor) housings for 10" and 14" Monitor elements are simple compact units, which can be easily installed and serviced. The VFM-1/254-10 assembly can flow 122 l/min. maximum. The VFM-1/355-10 can flow 183 l/min. maximum. **Installed Monitor elements are approved acc. to API/IP 1583 4th. Edition.**



Installed Monitor elements are not suitable for the use with Aviation fuels containing Anti-icing additives (FSII) and therefore they should not be applied.

## Technical Details

VFM-1/254-10	Micron rating (µm)	max. Flow Rates (l/min)		max. change-out differential pressure (bar)
Filter Monitor Element Type		Kerosene (Jet-A1)		
MO6.01C1-254-1	1	122		1,5

VFM-1/355-10	Micron rating (µm)	max. Flow Rates (l/min)		max. change-out differential pressure (bar)
Filter Monitor Element Type		Kerosene (Jet-A1)		
MO6.01C1-355-1	1	183		1,5

- Design pressure: 10 bar
- Design temperature: -10 to +50°C

## Maintenance

- V-Band Clamps are not used.  
This allows one single person to change the element easily.
- A slotted „locking ring collar“ allows maintenance personnel to hand loosen the four collar bolts, rotate and lower the bowl assembly for element change outs.

## Other possible application

- Jet Fuel Dispensing Systems

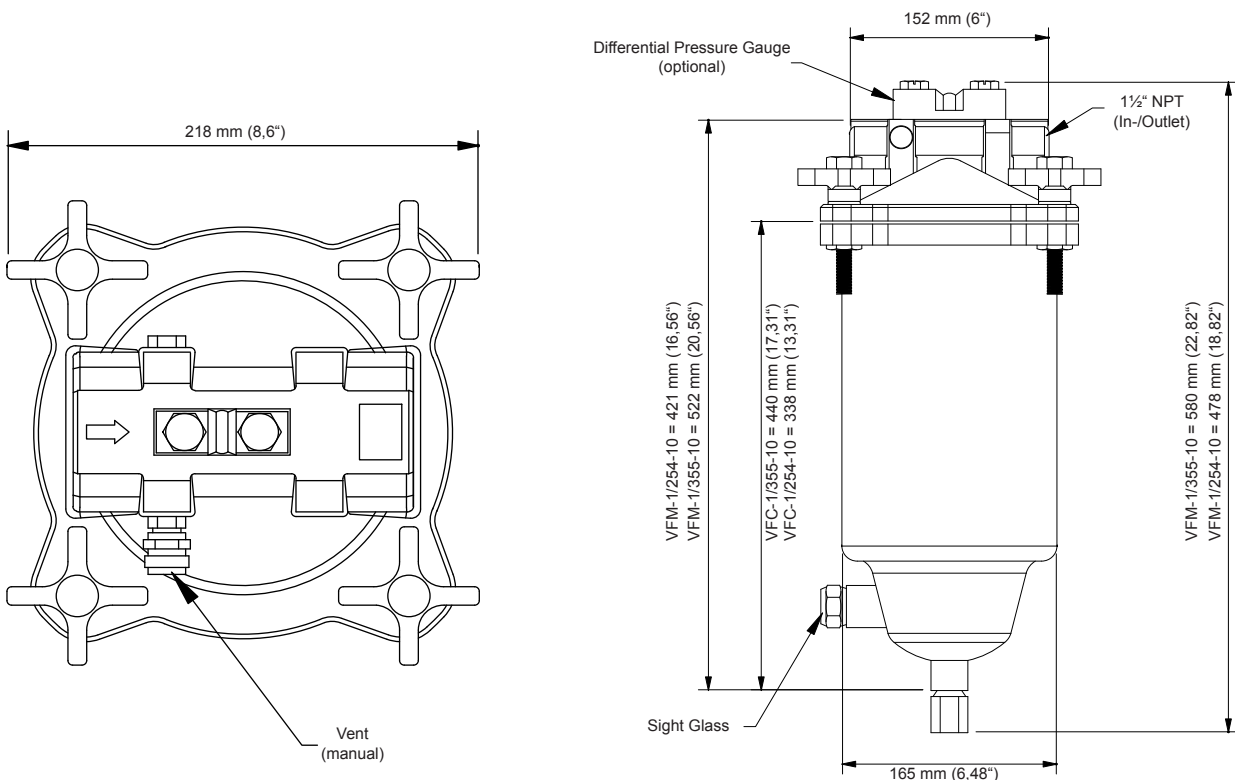
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## VFM Series

### Standard Design

- Die-cast Aluminum Head
- Steel filter bowl housing
- Powder coated Components
- Cover with quick opening („Locking Ring Collar“ – no clamps)
- In-/Outlet 1 ½“ NPT
- 10 bar @ +50°C Maximum Design Pressure
- Manual Vent valve, Sight glass
- Manual Drain valve
- incl. 1 pce. Filter Monitor Element

### Dimensions in mm



Description	Qty.	Article-No.
VFM-1/254-10	1	3 003 707
VFM-1/355-10	1	3 003 710
Differential Pressure Gauge (optional)	1	3 002 531
O-ring for Differential Pressure Gauge 20,5 x 3 (Viton®)	2	3 003 830
O-ring for Differential Pressure Gauge 9,52 x 1,78 (Viton®)	2	3 003 831
Seal 158x5,3 (BUNA-N)	1	3 005 251
Seal 158x5,3 (VITON®)	1	3 005 252
Filter Monitor Element Typ MO6.01C1-254-1		3 002 532
Filter Monitor Element Typ MO6.01C1-355-1		3 002 658

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