

# FILTER DATASHEET

## CMI FILTRATION



## Global Delivery and Fulfillment

The Reliable Company

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# CMI Economic Single Bag Filter

## EF Bag Filter Series

**SIMPLE AND COST EFFECTIVE**

### Description

CMI Economic Bag Filter Vessels series is designed for a general-purpose use for your filtration needs.

Simple V clamp cover design makes it easy to use. It is available for flow rate up to 40 m<sup>3</sup>/h(water).

### Features

- The most cost effective vessels available
- V clamp design for quick closure
- SS304/316 construction
- Unique Viton profile gasket for perfect bag sealing
- Fix perfectly with all standard bags
- Can be assembled with all standard filter bags
- Easy cleaning of inner & outer surface



### Data & Specifications:

- Size 1, Size 2, Size 3 and Size 4
- Design Pressure: 6bar
- Design Temp: 120 °C
- Material: SS304 & SS316L
- Gasket: Buna, EPDM, Viton, PTFE, Viton+PTFE
- Surface Treatment: Shot blasted for both inside & outside

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# CMI Economic Single Bag Filter

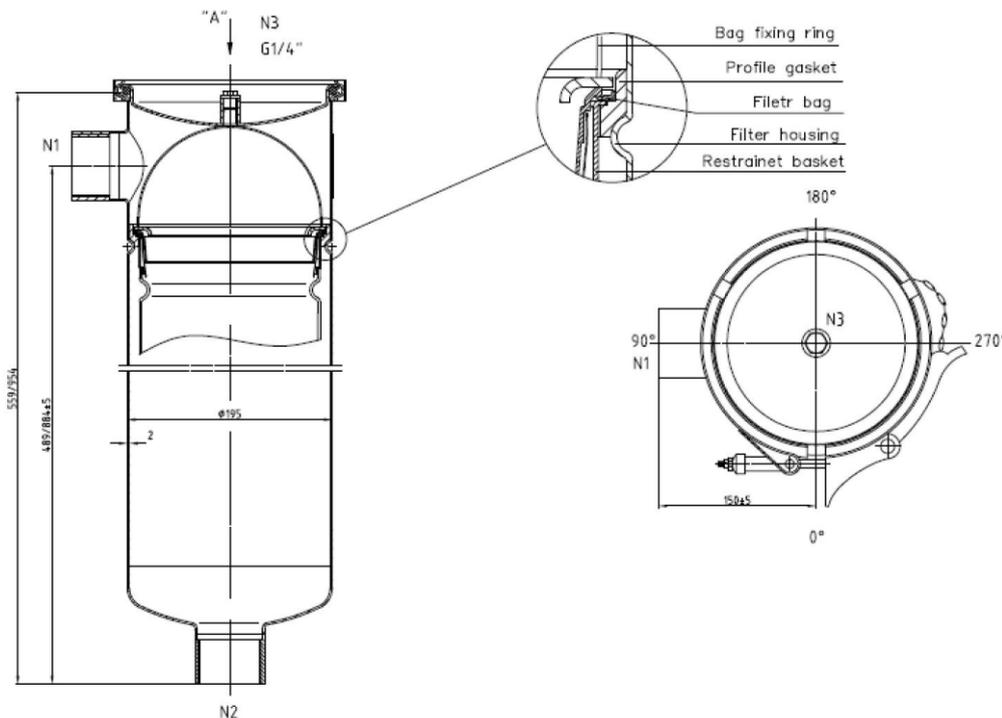
## EF Bag Filter Series

**SIMPLE AND COST EFFECTIVE**

### EF Engineering Specifications

Type code	EF1A1-6-020B	EF1A2-6-020B	EF1A3-6-015B	EF1A4-6-015B
Size	Size 01	Size 02	Size 03	Size 04
Max. flow rate	20m3/h	40m3/h	6m3/h	12m3/h
Filter area	0.25m2	0.5 m2	0.09 m2	0.16m2
Standard Inlet/outlet	BSP 2" Socket	BSP 2" Socket	BSP 1 2/2" Socket	BSP 1 1/2" Socket
Filter Volume	15.5 liters	27.0 liters	3.0 liters	4.5 liters
Housing Weight	11kg(approx.)	16kg(approx.)	4kg(approx.)	5kg(approx.)
Installation Height	98cm (approx.)	181cm (approx.)	59cm (approx.)	90cm (approx.)
Installation Space	50cm*50cm(approx.)	50cm*50cm(approx.)	25cm*25cm(approx.)	25cm*25cm(approx.)

### EF Structure & Sketch



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# CMI Side Inlet Single Bag Filter

## SF Bag Filter Series

### SIDE ENTRY FILTER VESSEL

#### Description

CMI Side Inlet Bag Filter Vessels series is designed for a general-purpose use for your filtration needs.

They can be applied in many industrial applications with liquid of low to medium viscosity.

The structure is stable and can be calculated and constructed acc. to ASME requirements. Test pressure is based on Europe standard with 1.43 times.

#### Features

- Unique and reliable seal
- Eye bolt locking structure
- SS304/316 construction
- Unique Viton profile gasket for perfect bag sealing
- Fix perfectly with all standard bags
- Can be assembled with all standard filter bags
- Easy cleaning of inner & outer surface

#### Data & Specifications

- Size 1, Size 2, Size 3 and Size 4
- Design Pressure: 10bar for size 1 & size 2;  
21bar for size 3 & size 4
- Design Temp: 120 °C
- Material: SS304 & SS316L
- Gasket: Buna, EPDM, Viton, PTFE, Viton+PTFE
- Surface Treatment: Shot blasted for both inside & outside



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# CMI Side Inlet Single Bag Filter

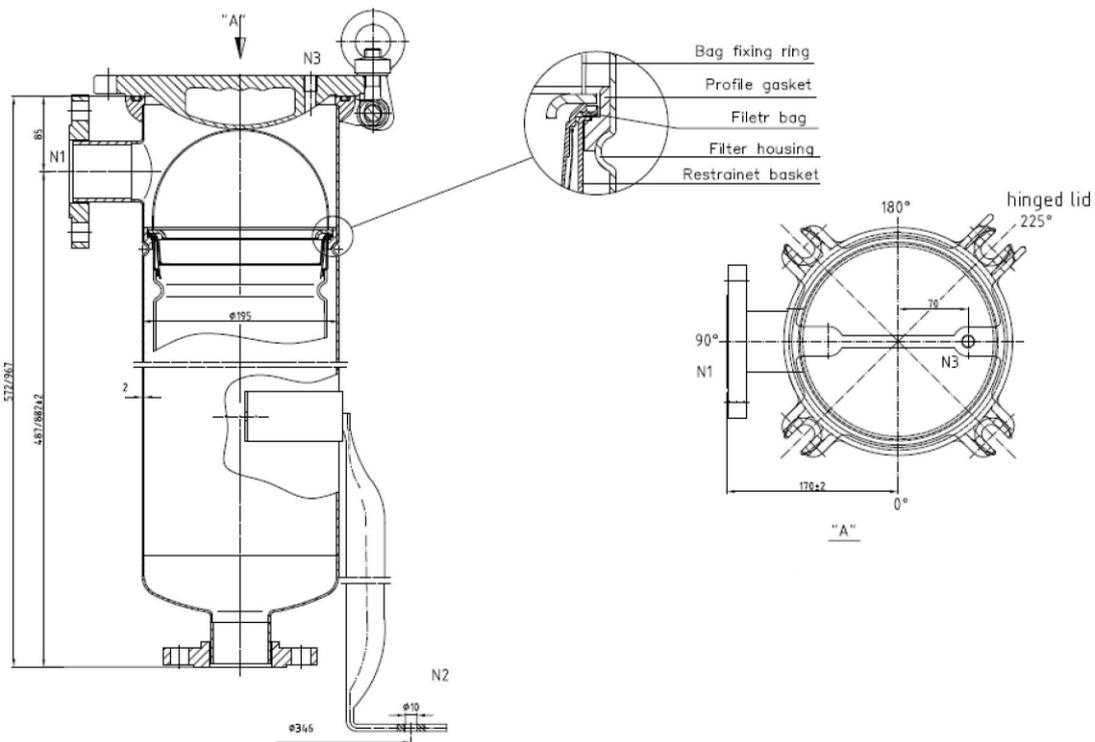
SF Bag Filter Series

**SIDE ENTRY FILTER VESSEL**

## SF Engineering Specifications

Type code	SF1A1-10-020A	SF1A2-10-020A	SF1A3-21-040B	SF1A4-21-040B
Size	Size 01	Size 02	Size 03	Size 04
Max. flow rate	20m3/h	40m3/h	6m3/h	12m3/h
Filter area	0.25m2	0.5 m2	0.09 m2	0.16m2
Standard Inlet/outlet	2" flange or BSP 2" Socket	2" flange or BSP 2" Socket	BSP 1 1/2" female	BSP 1 1/2" female
Filter Volume	15.5 liters	27.0 liters	3.0 liters	4.5 liters
Housing Weight	15kg(approx.)	20kg(approx.)	8kg(approx.)	10kg(approx.)
Installation Height	98cm (approx.)	181cm (approx.)	59cm (approx.)	90cm (approx.)
Installation Space	50cm*50cm(approx.)	50cm*50cm(approx.)	25cm*25cm(approx.)	25cm*25cm(approx.)

## SF Structure & Sketch



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# CMI Top Inlet Single Bag Filter

## TF Bag Filter Series

## TOP ENTRY FILTER VESSEL

### Description

CMI Top Inlet Bag Filter Vessels series is designed for a general-purpose use for your filtration needs. The casted top inlet lid provides perfect sealing to ensure no by pass, which gives customer the top performance in many challenging liquids filtration process

They can be applied in many industrial applications with liquid of low to medium viscosity.

The structure is stable and can be calculated and constructed acc. to ASME Section VIII, Division 1.



### Features

- Casting lid with fewer welds and stable pressure resistance
- Top cover presses and seals filter bag directly
- Almost 100% no leakage
- SS304/316 construction
- Fix perfectly with all standard bags
- Can be assembled with all standard filter bags
- Easy cleaning of inner & outer surface

### Data & Specifications

- Size 1, Size 2
- Design Pressure: 10bar
- Design Temp: 120 °C
- Material: SS304 & SS316L
- Gasket: Buna, EPDM, Viton, PTFE, Viton+PTFE
- Surface Treatment: Shot blasted for both inside & outside

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# CMI Top Inlet Single Bag Filter

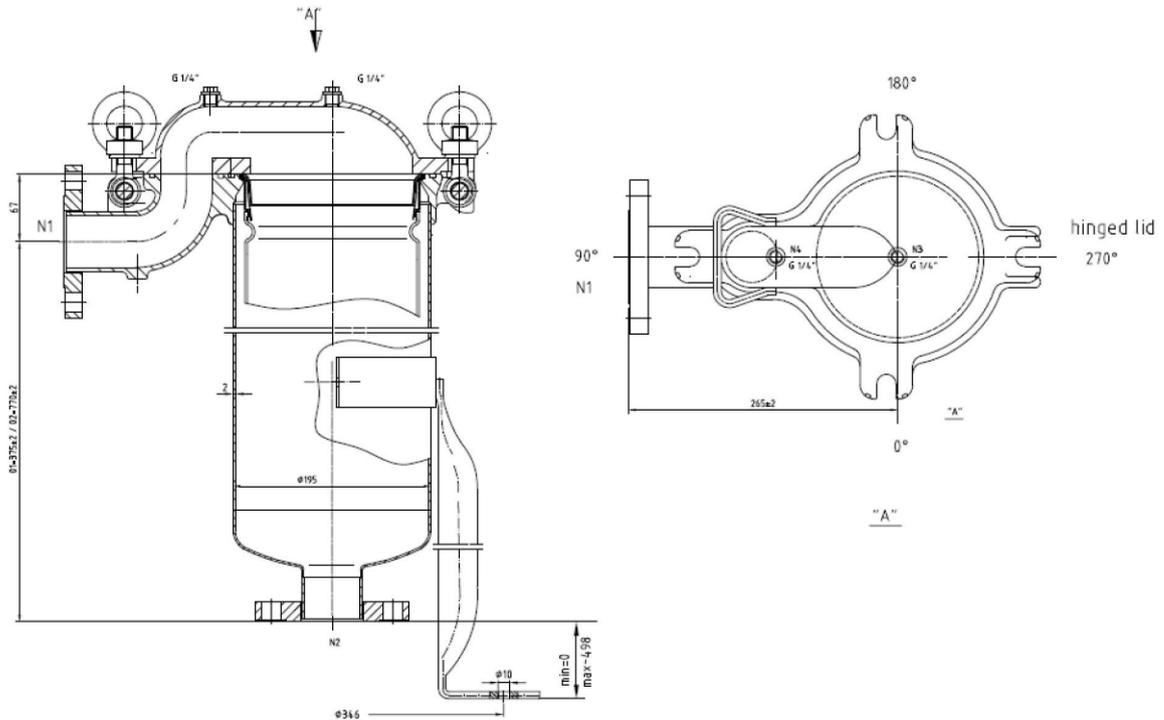
## TF Bag Filter Series

## TOP ENTRY FILTER VESSEL

### TF Engineering Specifications

Type code	TF1A1-10-020A	TF1A2-10-020A
Size	Size 01	Size 02
Max. flow rate	20m <sup>3</sup> /h	40m <sup>3</sup> /h
Filter area	0.25m <sup>2</sup>	0.5 m <sup>2</sup>
Standard Inlet/outlet	2" flange	2" flange
Filter Volume	13 liters	27.0 liters
Housing Weight	20kg(approx.)	25kg(approx.)
Installation Height	98cm (approx.)	181cm (approx.)
Installation Space	50cm*50cm(approx.)	50cm*50cm(approx.)

### TF Structure & Sketch



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# CMI PP Single Bag Filter

## PP Bag Filter Series

### DESIGN FOR CORROSIVE CHEMICAL FILTRATION

#### Description

Our Polypropylene vessel is a light weight, one piece molded strong and economical vessel with UV inhibitor for all weather durability able to solve your filtration requirement for corrosive chemicals.

The simple design of threaded lid allows you to operate for bag changing with any help of tools.



#### Features

- Light weight for easy handling
- Good corrosive resistance
- PP construction
- Fix perfectly with bags size 2 and size 5
- Easy cleaning of inner & outer surface

#### Data & Specifications

- Size 1, Size 5
- Design Pressure: 6bar at 30 °C
- Design Temp: 80 °C
- Material: PP



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# CMI PP Single Bag Filter

## PP Bag Filter Series

### DESIGN FOR CORROSIVE CHEMICAL FILTRATION

#### PF Engineering Specifications

Type code	PF1P2-6-020A	PF1P5-6-020A
Size	Size 02	Size 05
Max. flow rate	40m <sup>3</sup> /h	18m <sup>3</sup> /h
Filter area	0.5m <sup>2</sup>	0.2 m <sup>2</sup>
Standard Inlet/outlet	2"NPT female & ANSI 2" flange	2"NPT female & ANSI 2" flange
Operating Data	Max. 6.0 bar/80 °C	Max. 6.0 bar/80 °C
Housing Weight	14kg(approx.)	7.3kg(approx.)
Installation Height	200cm (approx.)	98cm (approx.)
Installation Space	approx. 60 cm x 60 cm	approx. 50 cm x 50 cm
Mode of installation	Self-supporting	Self-supporting
Packing: corrugated box	128 cm x 37 cm x 37 cm	78 cm x 28 cm x 28 cm

#### PF Ordering Information

PF1	P5-	6-	020A
1 - Single Bag Vessel	2 - #2 5 - #5	6 Bar	N – NPT Socket A - ANSI Flange
2 - Double Bag Vessel			2" - 020

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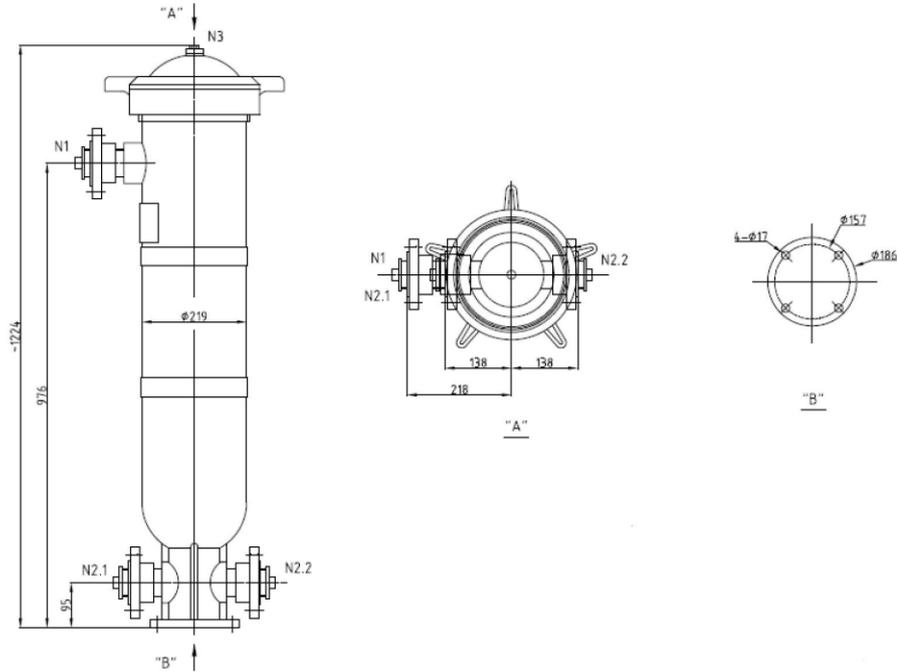


# CMI PP Single Bag Filter

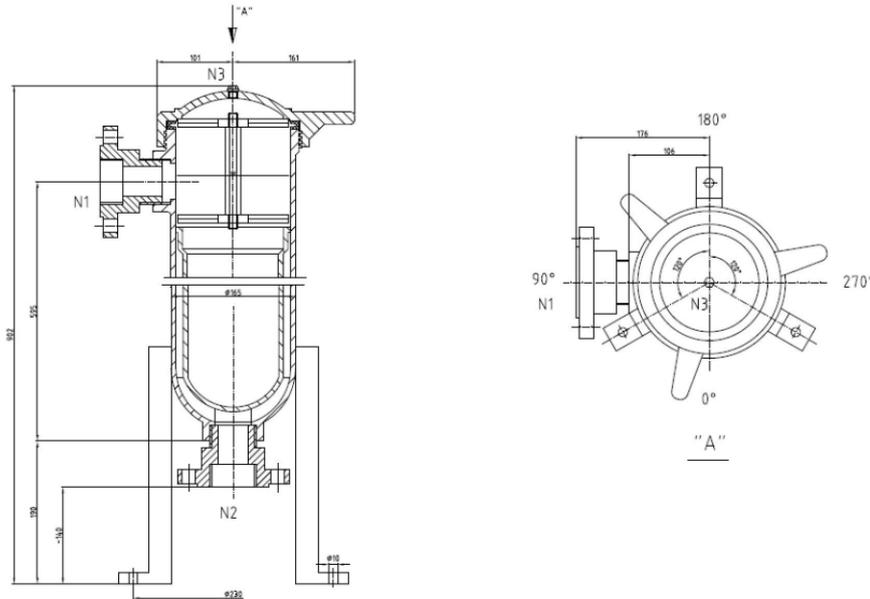
## PP Bag Filter Series

DESIGN FOR CORROSIVE CHEMICAL FILTRATION

### PF Structure & Sketch Size 2



### PF Structure & Sketch Size 5



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# CMI Quick Opening Multi-Bag Filter

## VMF Bag Filter Series

## QUICK OPENING AND CLOSURE

### Description

CMI Multi-Bag Filter has a balance system with clamp on the lid to make it easy opening. Its single handed, user-friendly operation makes the filter your ideal choice for high volume applications that require frequent bag changing. Minimal downtime reduces operation cost and makes the batch processes easy to handle. Efficiency is highly improved by a fully-interlocked design that guarantee safety under any conditions. It reduces pass by time, labor cost, which brings good cost down for customer long term operations.

They can be applied in many industrial applications with liquid of low to medium viscosity. The structure is stable and can be calculated and constructed acc. to ASME Section VIII, Division 1.



### Features

- Easy opening with balance system & clamp
- V clamp ensures cost-effective bag filtration
- Single handed, user-friendly operation
- Ideal for high volume applications with often bag changing
- Vertically opening to save installation space
- Fix perfectly with all standard bags
- Can be assembled with all standard filter bags
- Easy cleaning of inner & outer surface

### Data & Specifications

- Size 1, Size 2
- No. of bags: 3/4/6/8/12...up to 24
- Design Pressure: 6bar & 10bar
- Design Temp: 120 °C
- Material: SS304 & SS316L
- Gasket: Buna, EPDM, Viton, PTFE, Viton+PTFE
- Surface Treatment: Shot blasted for both inside & outside

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# CMI Quick Opening Multi-Bag Filter

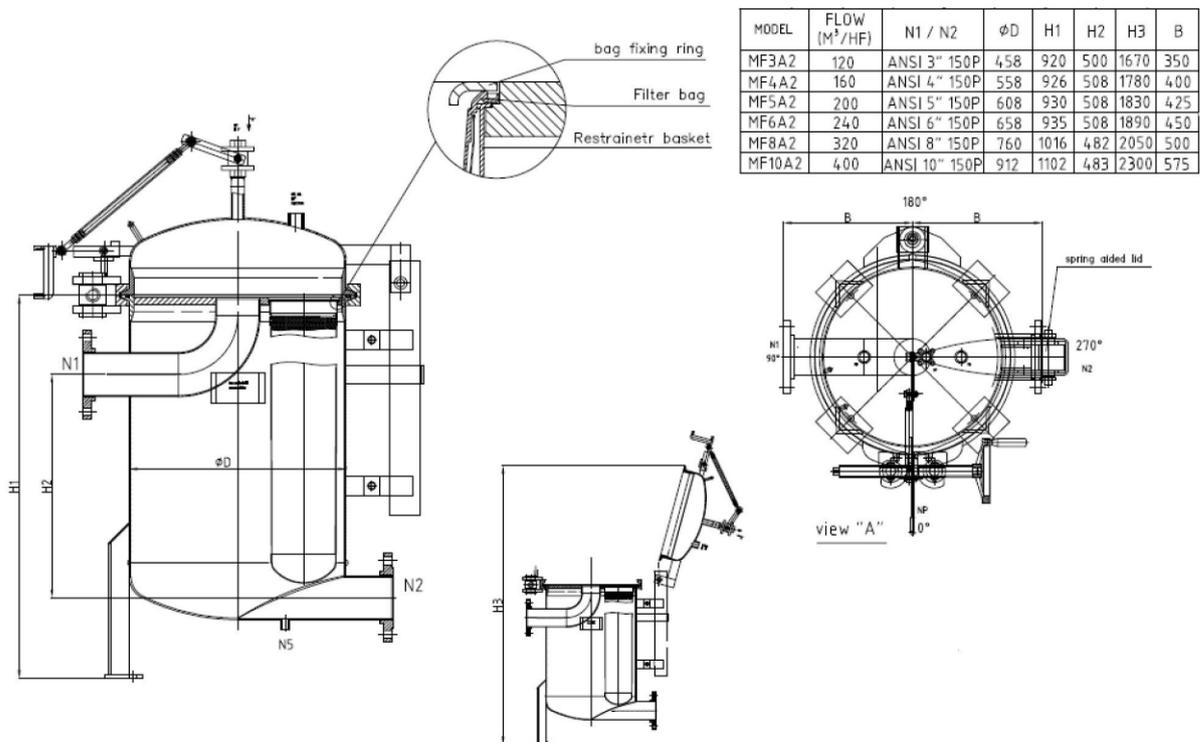
## VMF Bag Filter Series

### QUICK OPENING AND CLOSURE

#### VMF Engineering Specifications

Spec.	3-bag	4-bag	6-bag	8-bag	12-bag
Inlet/Outlet	DN80(3")	DN100(4")	DN150(6")	DN200(8")	DN200 (8")
Max. Operation Pressure:	10 bar (145psi)				
Max. Operation Temp:	150°C				
Gasket:	Buna N, EPDM, VITON, SILICON, FEP+FPM				
Vessel Material:	SS304; SS316L				
Vessel Volume:	180L (48Gal)	225L(59Gal)	274L(72Gal)	450L(119Gal)	750L (198Gal)
Net Weight:	155kg(342lb)	210kg(463lb)	255kg(562lb)	315kg(694lb)	620kg(1367lb)

#### VMF Structure & Sketch



MODEL	FLOW (M <sup>3</sup> /HF)	N1 / N2	$\phi D$	H1	H2	H3	B
MF3A2	120	ANSI 3" 150P	458	920	500	1670	350
MF4A2	160	ANSI 4" 150P	558	926	508	1780	400
MF5A2	200	ANSI 5" 150P	608	930	508	1830	425
MF6A2	240	ANSI 6" 150P	658	935	508	1890	450
MF8A2	320	ANSI 8" 150P	760	1016	482	2050	500
MF10A2	400	ANSI 10" 150P	912	1102	483	2300	575

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# CMI Eye Bolt Opening Multi-Bag Filter

## EMF Bag Filter Series

## OPEN BY EYE BOLT & BALANCE SYSTEM

### Description

CMI eye bolt opening filter has a balance system with eye bolt & nuts on the lid to make it safety and stable. It can be side inlet and bottom outlet, providing easy and complete drainage. The convenient tangential bottom outlet reduces housing height, making bag change-out easy and safe. The lid can be easily positioned at any angle by a single worker with only one hand. The bag fixing tool assures no bypass under any conditions.

They can be applied in many industrial applications with liquid of low to medium viscosity. The structure is stable and can be calculated and constructed acc. to ASME Section VIII, Division 1.



### Features

- Eye bolt with balance system makes it stable and safety
- Complete drainage by side inlet and bottom outlet
- Minimal downtime reduces operating cost
- Fully interlocked design for safety under any conditions
- Vertically opening to save installation space
- Fix perfectly with all standard bags
- Can be assembled with all standard filter bags
- Easy cleaning of inner & outer surface

### Data & Specifications

- Size 1, Size 2
- No. of bags: 3/4/6/8/12...up to 24
- Design Pressure: 6bar & 10bar
- Design Temp: 120 °C
- Material: SS304 & SS316L
- Gasket: Buna, EPDM, Viton, PTFE, Viton+PTFE
- Surface Treatment: Shot blasted for both inside & outside

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# CMI Eye Bolt Opening Multi-Bag Filter

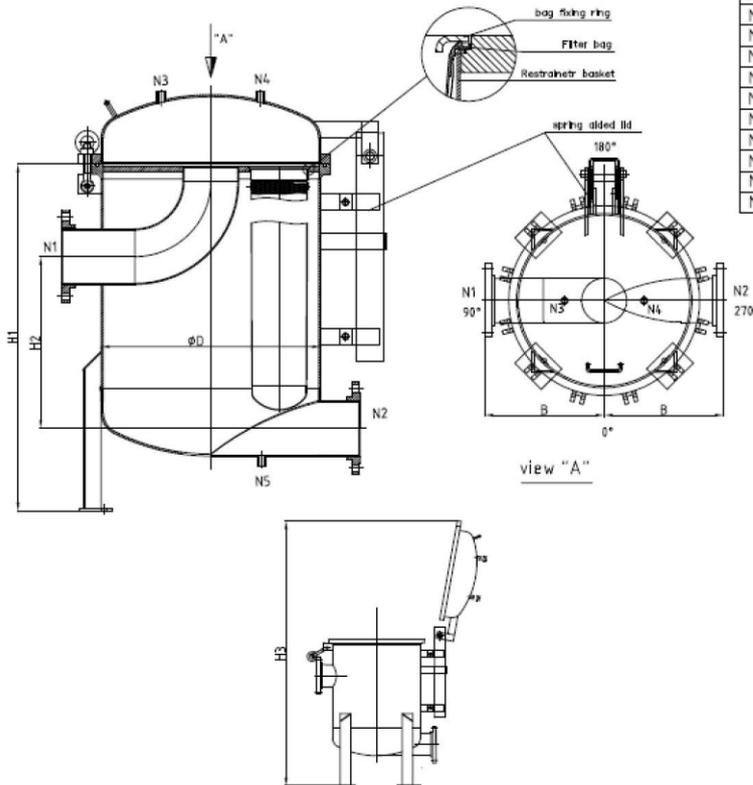
## EMF Bag Filter Series

### OPEN BY EYE BOLT & BALANCE SYSTEM

#### EMF Engineering Specifications

Spec.	3-bag	4-bag	6-bag	8-bag	12-bag
Inlet/Outlet	DN80(3")	DN100(4")	DN150(6")	DN200(8")	DN200 (8")
Max. Operation Pressure:	10 bar (145psi)				
Max. Operation Temp:	150 °C				
Gasket:	Buna N, EPDM, VITON, SILICON, FEP+FPM				
Vessel Material:	SS304; SS316L				
Vessel Volume:	180L (48Gal)	225L(59Gal)	274L(72Gal)	450L(119Gal)	750L (198Gal)
Net Weight:	155kg(342lb)	210kg(463lb)	255kg(562lb)	315kg(694lb)	620kg(1367lb)

#### EMF Structure & Sketch



MODEL	FLOW (M <sup>3</sup> /HF)	N1 / N2	φD	H1	H2	H3	B
MF3A2	120	ANSI 3" 150P	458	920	500	1670	350
MF4A2	160	ANSI 4" 150P	558	926	508	1780	400
MF5A2	200	ANSI 5" 150P	608	930	508	1830	425
MF6A2	240	ANSI 6" 150P	658	935	508	1890	450
MF8A2	320	ANSI 8" 150P	760	1016	482	2050	500
MF10A2	400	ANSI 10" 150P	912	1102	483	2300	575
MF12A2	480	ANSI 10" 150P	962	1102	483	2350	620
MF14A2	560	ANSI 12" 150P	1062	1102	483	2450	660
MF16A2	640	ANSI 12" 150P	1062	1102	483	2450	660
MF18A2	720	ANSI 12" 150P	1162	1102	483	2550	710
MF22A2	880	ANSI 16" 150P	1312	1290	410	2820	880

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# CMI Davit Arm Opening Multi-Bag Filter

## DMF Bag Filter Series

## SIDE OPENING BY DAVIT ARM

### Description

CMI davit arm opening filter has davit arm with eye bolt & nuts on the lid to make it safety and stable.

It can be side inlet and bottom outlet, providing easy and complete drainage. The convenient tangential bottom outlet reduces housing height, making bag change-out easy and safe. The lid is opened horizontally by side.

They can be applied in many industrial applications with liquid of low to medium viscosity.

The structure is stable and can be calculated and constructed acc. to ASME Section VIII, Division 1.

### Features

- Davit Arm with eye bolts makes it stable and safety
- Complete drainage by side inlet and bottom outlet
- Fully interlocked design for safety under any conditions
- Fix perfectly with all standard bags
- Can be assembled with all standard filter bags
- Easy cleaning of inner & outer surface

### Data & Specifications

- Size 1, Size 2
- No. of bags: 3/4/6/8/12...up to 24
- Design Pressure: 6bar & 10bar
- Design Temp: 120 °C
- Material: SS304 & SS316L
- Gasket: Buna, EPDM, Viton, PTFE, Viton+PTFE
- Surface Treatment: Shot blasted for both inside & outside



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# CMI Davit Arm Opening Multi-Bag Filter

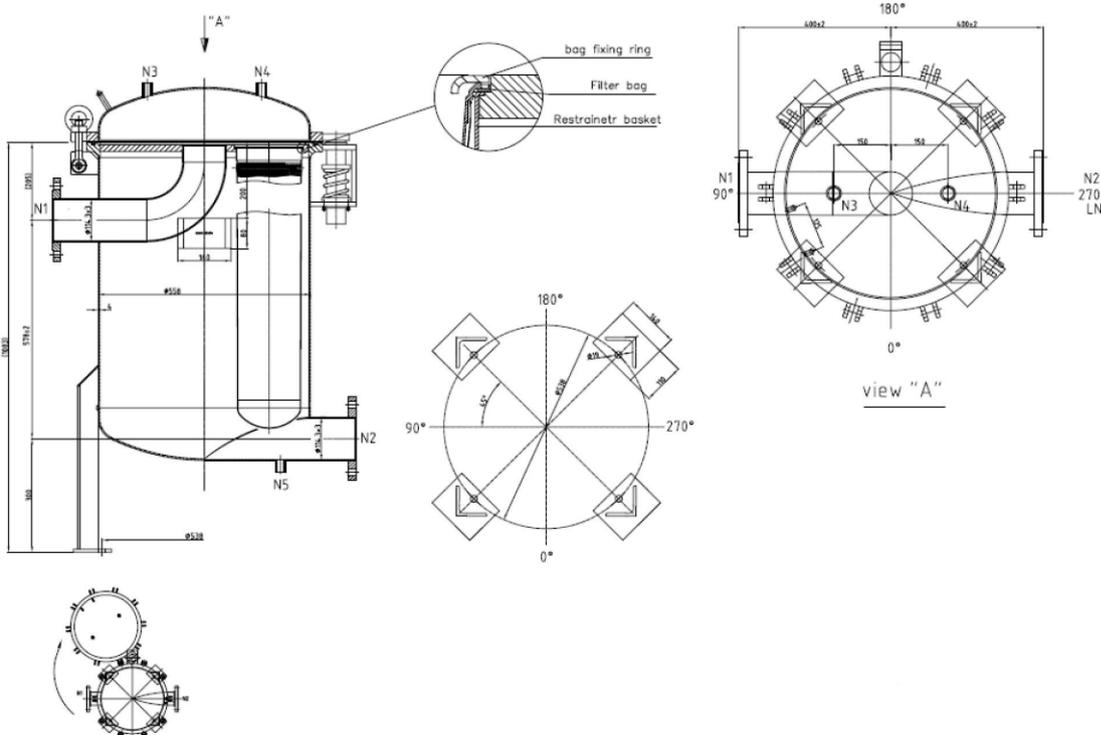
## DMF Bag Filter Series

## SIDE OPENING BY DAVIT ARM

### DMF Engineering Specifications

Spec.	3-bag	4-bag	6-bag	8-bag	12-bag
Inlet/Outlet	DN80(3")	DN100(4")	DN150(6")	DN200(8")	DN200 (8")
Max. Operation Pressure:	10 bar (145psi)				
Max. Operation Temp:	150 °C				
Gasket:	Buna N, EPDM, VITON, SILICON, FEP+FPM				
Vessel Material:	SS304; SS316L				
Vessel Volume:	180L (48Gal)	225L(59Gal)	274L(72Gal)	450L(119Gal)	750L (198Gal)
Net Weight:	155kg(342lb)	210kg(463lb)	255kg(562lb)	315kg(694lb)	620kg(1367lb)

### DMF Structure & Sketch



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