

# SF2 250-350 series

Flow rate up to 160 I/min



## YPICAL FILTER SIZING Selection Software



Step (7) PDF Download PDF

Datasheet "Report.aspx" pushing the button "Drawing"

## SF2 250-350 general information

## Description

#### Suction filters

### Flow rate up to 160 l/min

SF2 250 and SF2 350 are ranges of suction filters with integrated shut-off valve for protection of the downstream pump against the coarse contamination.

They are placed below the minimum oil level, directly connected to the suction line of the pump.

They can be fitted on the side or below the tank, allowing a more flexible design of the tank.

The shut-off valve closes automatically when the cover is removed, allowing the filter element replacement without the fluid drop.

#### **Available features:**

- Female threaded connections up to 1" and flanged connections up to 1 1/2", for a maximum flow rate of 160 l/min
- Multiple connections, to connect several suction lines
- Bypass valve, to relieve excessive pressure drop across the filter media
- Magnetic filter, to hold the ferrous particles
- Visual, electrical and electronic clogging indicators

#### **Common application:**

- Mobile machines
- Industrial equipment

### Technical data

### **Filter housing materials**

- Filter body: Aluminium
- Cover: Polyamide, GF reinforced
- Valve: Polyamide, GF reinforced Steel
- Anti-Emptying valve: Steel

#### **Bypass valve**

Opening pressure 30 kPa (0.3 bar) ±10%

#### Elements

Fluid flow through the filter element from IN to OUT

#### Seals

- Standard NBR series A
- Optional FPM series V

#### **Temperature**

From -25 °C to +110 °C

#### **Note**

SF2 250-350 filters mounting, see the drawings on page 43 and following.



### Weights [kg]

Filter series	
SF2 250	2.6
SF2 350	2.6

## GENERAL INFORMATION SF2 250-350

## FILTER ASSEMBLY SIZING Flow rates [I/min]

	Filter element design - N Series
Filter series	M25 M60 M90 M250 P10 P25
SF2 250	147 151 155 160 85 132
SF2 350	147 151 155 160 85 132

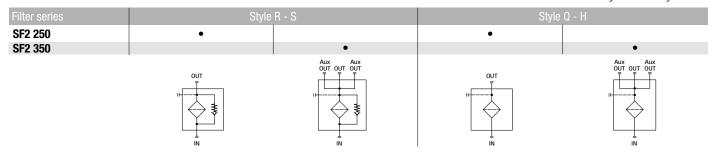
Maximum flow rate for a complete suction filter with a pressure drop  $\Delta p = 0.08$  bar.

The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

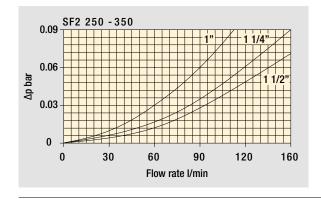
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

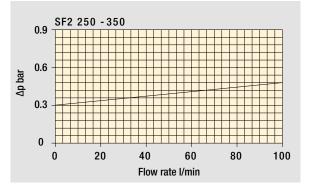
## Hydraulic symbols



## Pressure drop Filter housings Δp pressure drop



Bypass valve pressure drop

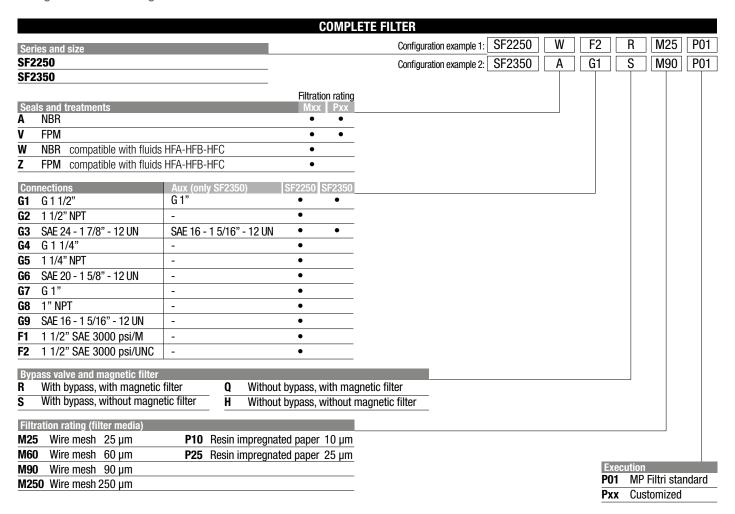


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



## SF2 250-350

### Designation & Ordering code

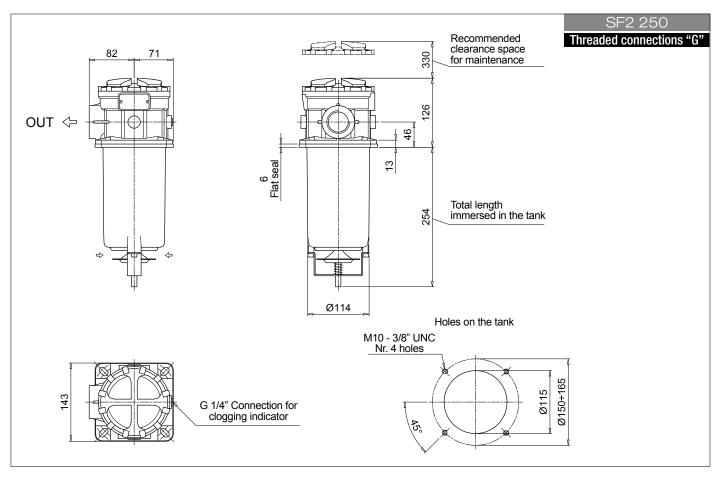


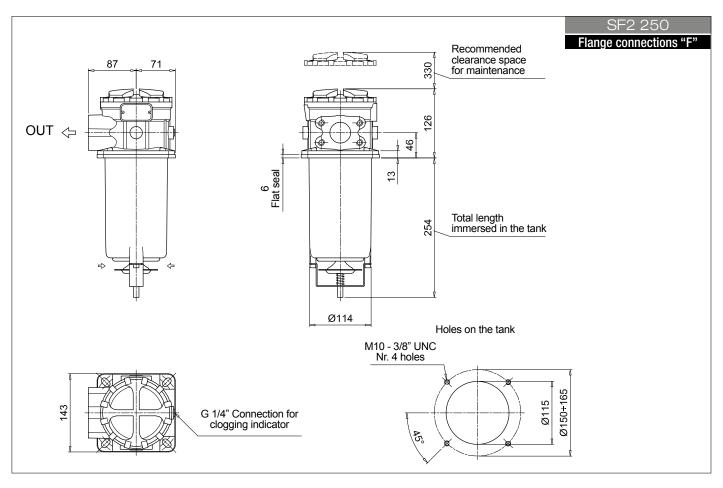
						FILTER	RELEMENT					
Elen	nent se	eries and size						Configuration example 1:	SF250	M25	W	P01
SF2	50				_			Configuration example 2:	SF250	M90	N	P01
Filtr	ation r	rating (filter media)										
M25	Wir	re mesh 25 µm	P10	Resin impreg	nated paper	10 µm						
M60	Wir	re mesh 60 µm	P25	Resin impreg	nated paper	25 µm						
M90	Wir	re mesh 90 µm										
M25	<b>0</b> Wir	re mesh 250 µm										
					Filtratio	on rating						
Seal		treatments			Mxx	Рхх						
N	NBR				•	•						
V	FPM				•	•			Exe	cution		
W	NBR	compatible with fluids HF	A-HFB-I	HFC	•				P01	MP I	iltri sta	ındard
Z	FPM	compatible with fluids HF	A-HFB-	HFC	•				Рхх	Cust	omizec	

	ACCESSORIES
Clogging indicators	page
VVA Axial vacuum gauge	59
VVR Radial vacuum gauge	59
VEA Electrical vacuum indicator	58
VLA Electrical / visual vacuum indicator	58

## SF2 250-350

### **Dimensions**





## **Dimensions**

SF2 350 Recommended clearance space for maintenance 330 82 71 126 46 6 Flat seal 5 Total length immersed in the tank Ø114 Aux OUT Holes on the tank M10 - 3/8" UNC Nr. 4 holes Ø150÷165 Ø115 155 G 1/4" Connection for clogging indicator 5, Ŷ Aux OUT

## SPARE PARTS SF2 250-350

Order number for spare parts

