

SF2 250-350 series

Flow rate up to 160 I/min



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 mm²/s (cSt) and a density of 0.86 kg/dm³.

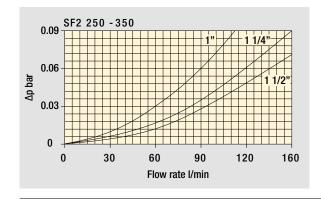
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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.

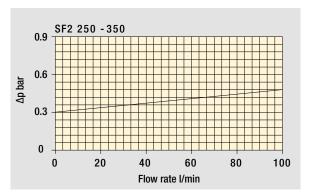
Hydraulic symbols

Filter series	Style		Style Q - H			
SF2 250	•	-	•	-		
SF2 350	-	•	-	•		
	OUT TO THE PART OF	Aux OUT OUT OUT	OUT TO THE PROPERTY OF THE PRO	AUX OUT OUT OUT IN		

Pressure drop Filter housings Δp pressure drop



Bypass valve pressure drop

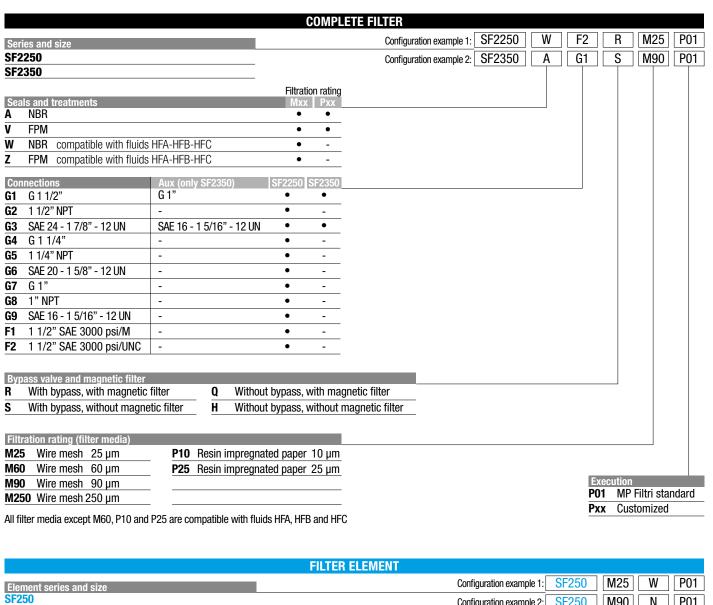


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



SF2 250-350

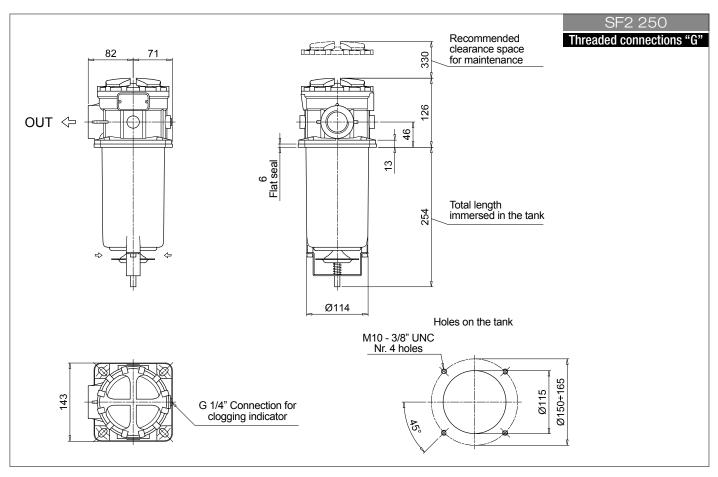
Designation & Ordering code

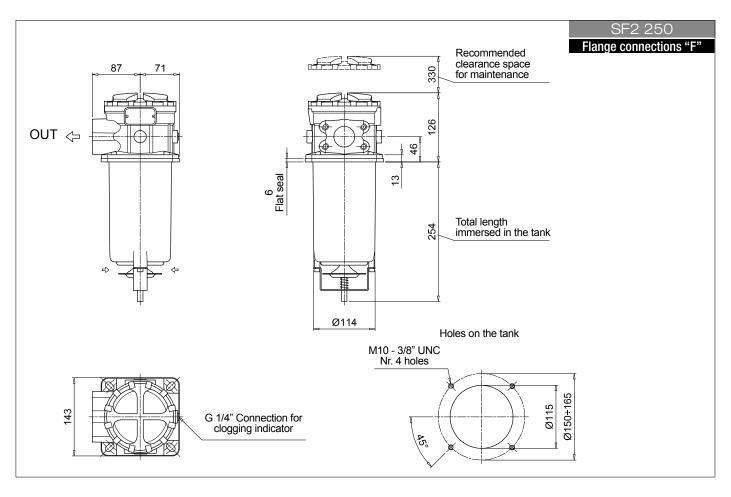


	FILTER	RELEMENT			
Element series and size		Configuration example 1:	SF250 M	25 W	P01
SF250		Configuration example 2:	SF250 M	90 N	P01
Filtration rating (filter media)					
M25 Wire mesh 25 μm P1	O Resin impregnated paper 10 μm				
M60 Wire mesh 60 µm P2	5 Resin impregnated paper 25 µm				
M90 Wire mesh 90 μm					
M250 Wire mesh 250 μm					
	Filtration rating				
Seals and treatments	Mxx Pxx				
N NBR	• •				
V FPM	• •		Execu	tion	
W NBR compatible with fluids HFA-HF	B-HFC • -		P01	MP Filtri st	andard
Z FPM compatible with fluids HFA-HF	B-HFC • -		Pxx	Customize	d

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

