

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.

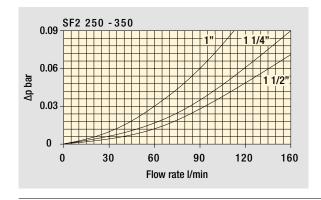
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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.

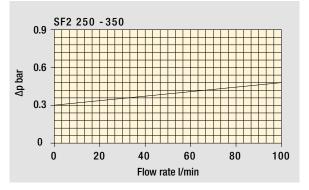
Hydraulic symbols

Filter series	Style		Style Q - H		
SF2 250	•	-	•	-	
SF2 350	-	•	-	•	
	OUT T	Aux OUT OUT OUT	OUT T	AUX OUT OUT OUT IN	

Pressure drop Filter housings Δp pressure drop



Bypass valve pressure drop

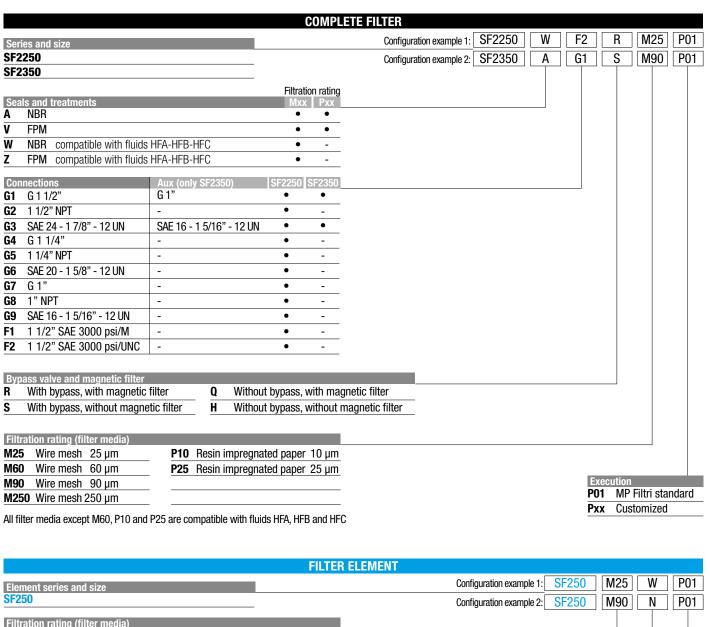


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



SF2 250-350

Designation & Ordering code

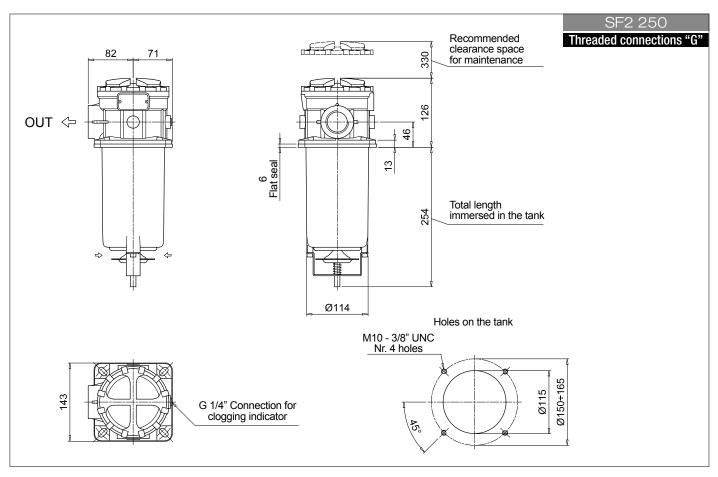


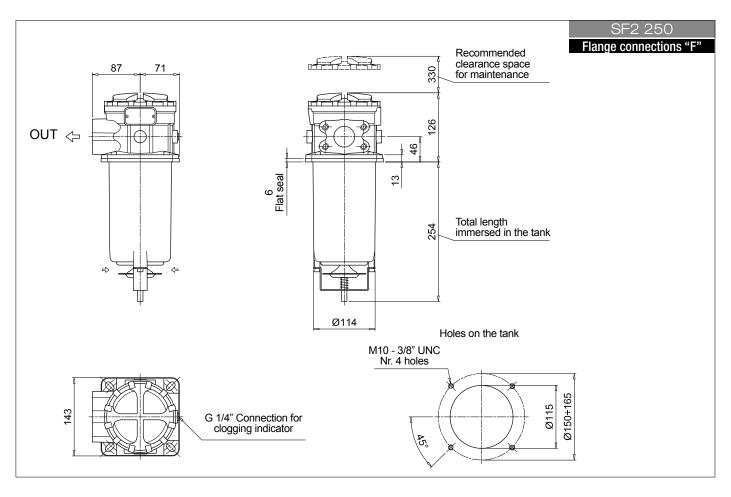
	FILTER ELEMENT							
Elen	ent series and size			Configuration example 1:	SF250 N	125	<i>N</i> P01	
SF2	50			Configuration example 2:	SF250 N	190	N P01	
Filtra	ation rating (filter media)							
M25	Wire mesh 25 µm	P10 Resin impregnated paper	10 µm					
M60	Wire mesh 60 µm	P25 Resin impregnated paper	25 µm					
M90	Wire mesh 90 µm							
M25	0 Wire mesh 250 μm							
		Filtratio	on rating					
Seal	s and treatments	Mxx	Pxx]	
N	NBR	•	•					
V	FPM	•	•		Execu	ıtion		
W	NBR compatible with fluids HF.	A-HFB-HFC •	-		P01	MP Filtr	i standard	
Z	FPM compatible with fluids HF.	A-HFB-HFC •	-		Рхх	Custom	ized	

	CLOGG	NG INDICATORS	See page 679
VVA Axia	al vacuum gauge		
VVR Rad	dial vacuum gauge		
VEA Elec	ctrical vacuum indicator		
VLA Elec	ctrical / visual vacuum indicator		

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

