

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 55 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.

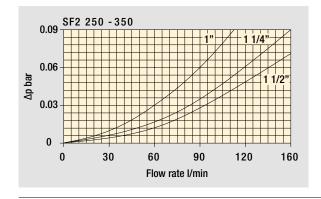
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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.

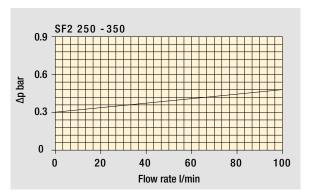
Hydraulic symbols

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

Pressure drop Filter housings Δp pressure drop



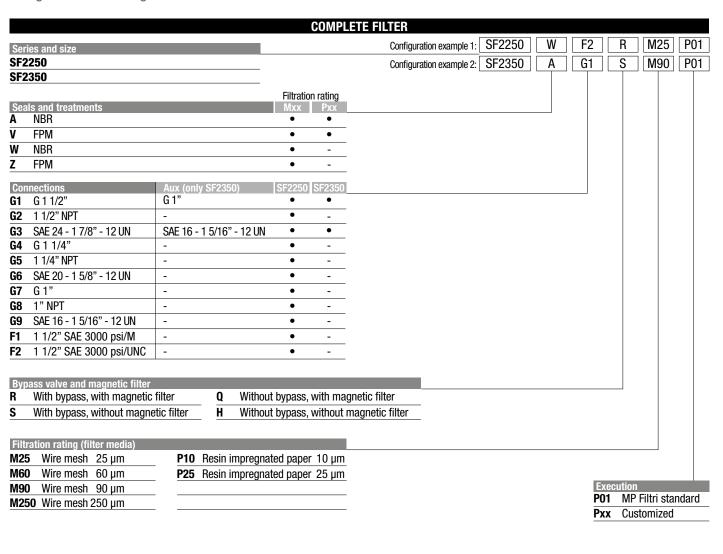
Bypass valve pressure drop



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

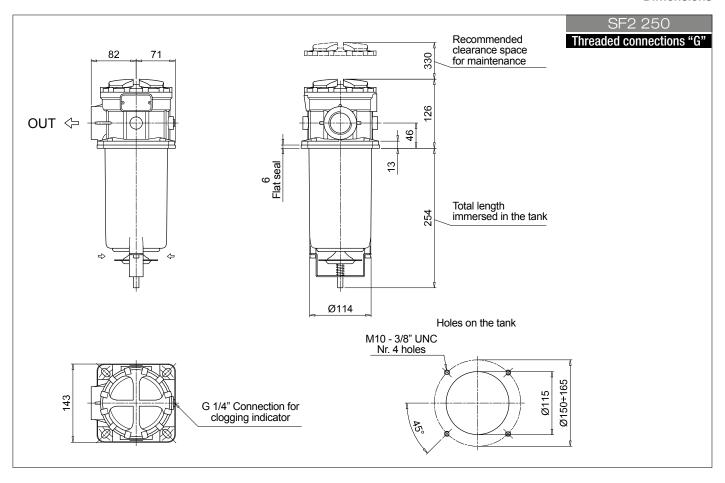


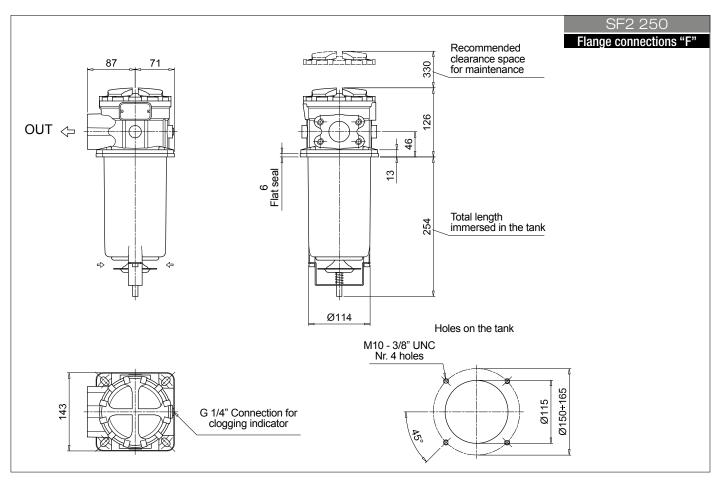
	FILTER ELEMENT										
Eler	nent series and size						Configuration example 1:	SF250	M25	W	P01
SF2	50						Configuration example 2:	SF250	M90	N	P01
Filtr	ation rating (filter media)										
M25	Wire mesh 25 µm	P10	Resin impregi	nated paper	10 µm				_		
M60	Wire mesh 60 µm	P25	Resin impregi	nated paper	25 µm						
M90	Wire mesh 90 µm										
M25	0 Wire mesh 250 μm										
Soa	ls and treatments			Filtration	rating Pxx						
N	NBR			• IVIAA	F AA						
V	FPM			•	•			Exec	cution		
W	NBR			•	-			P01		iltri sta	ndard
Z	FPM			•	-			Рхх	Custo	omized	

	ATORS	See page 709		
VEA	Electrical vacuum indicator	VVA	Axial vacuum gauge	
VLA	Electrical / visual vacuum indicator	VVR	Radial vacuum gauge	

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

