

SF2 250-350 series

Flow rate up to 160 l/min



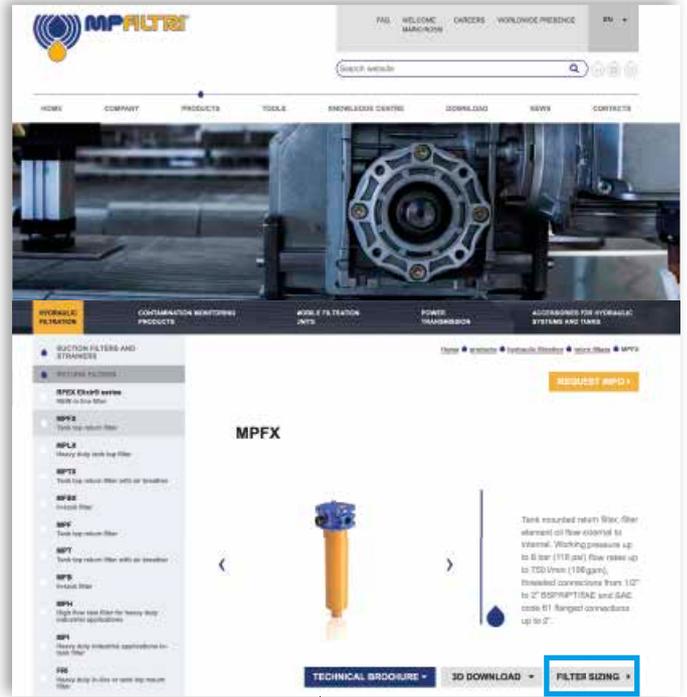
TYPICAL FILTER SIZING Selection Software

Step ①

Select "FILTER SIZING SOFTWARE" after login

OR

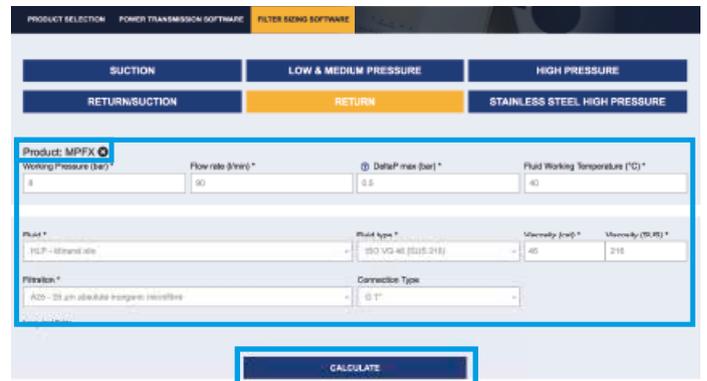
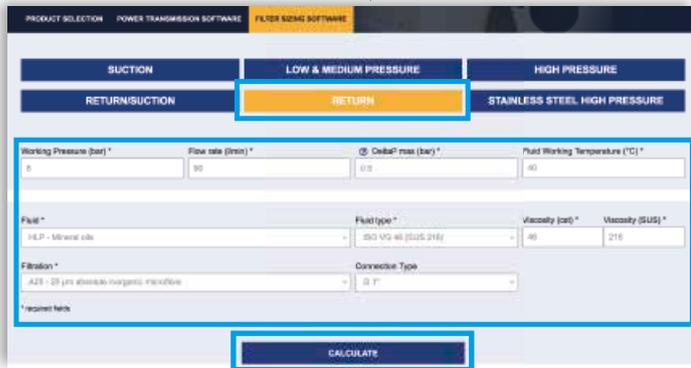
Select "FILTER SIZING" after login from a product page



Choose the type of filter family.
Enter the main data for sizing the filter
then push CALCULATE.

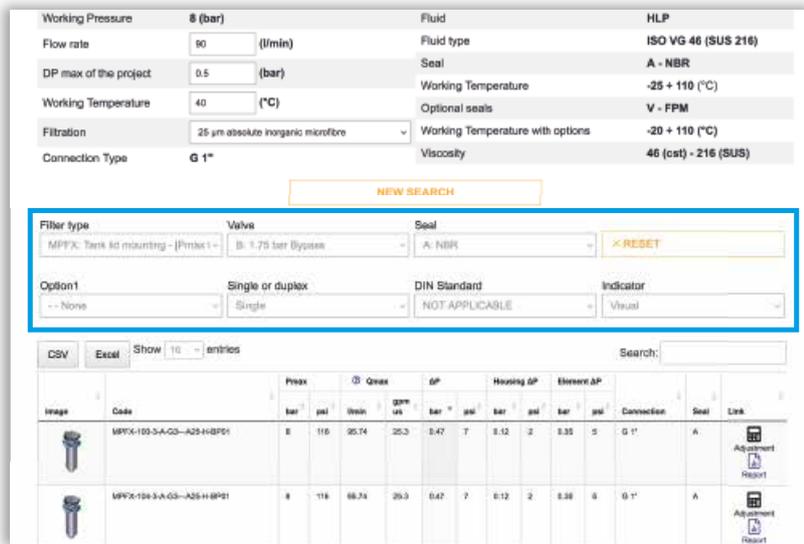
Step ②

Enter the main data for sizing the filter
then push CALCULATE.



Step ③

Select the desired options to choose the appropriate filter type for the application.



Step 4

Choose the most suitable filter from the proposed list.

Image	Code	Peak bar	Qmax gpm	ΔP psi	Housing ΔP bar	Element ΔP psi	Connection	Seal	Link			
	MPFX-103-3-A-Q3-A25-H-BPFI	8	116	25.74	25.3	0.47	T	0.12 2	0.33 5	G 1"	A	Adjustment Report
	MPFX-104-3-A-Q3-A25-H-BPFI	8	116	25.74	25.3	0.47	T	0.12 2	0.33 5	G 1"	A	Adjustment Report

Step 5

It is possible to change the filter modifying every parameter.



A SAVE YOUR FILTER'S REPORT



B MANUAL EDIT



SAVE IN YOUR ARCHIVE
typing your reference data and then SAVE AS PDF



A new browser window displays the pdf

see **A**

Close the report window



By clicking your WELCOME button, the SHOW REPORTS is displayed: select it to see your filters list.

SF2 250-350 GENERAL INFORMATION

Description

Technical data

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

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) $\pm 10\%$

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 [l/min]

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

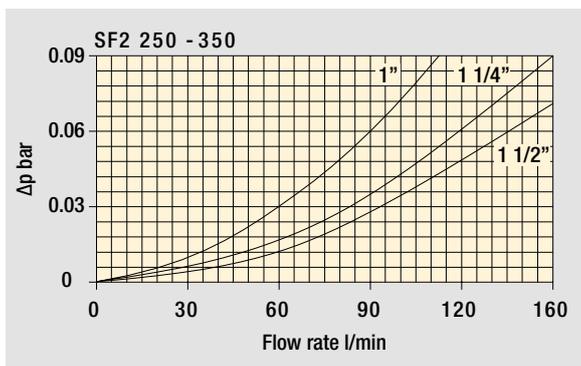
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

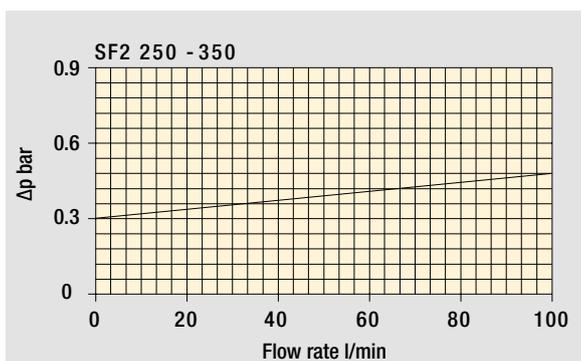
Filter series	Style R - S		Style Q - H	
SF2 250	•		•	
SF2 350		•		•

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

COMPLETE FILTER

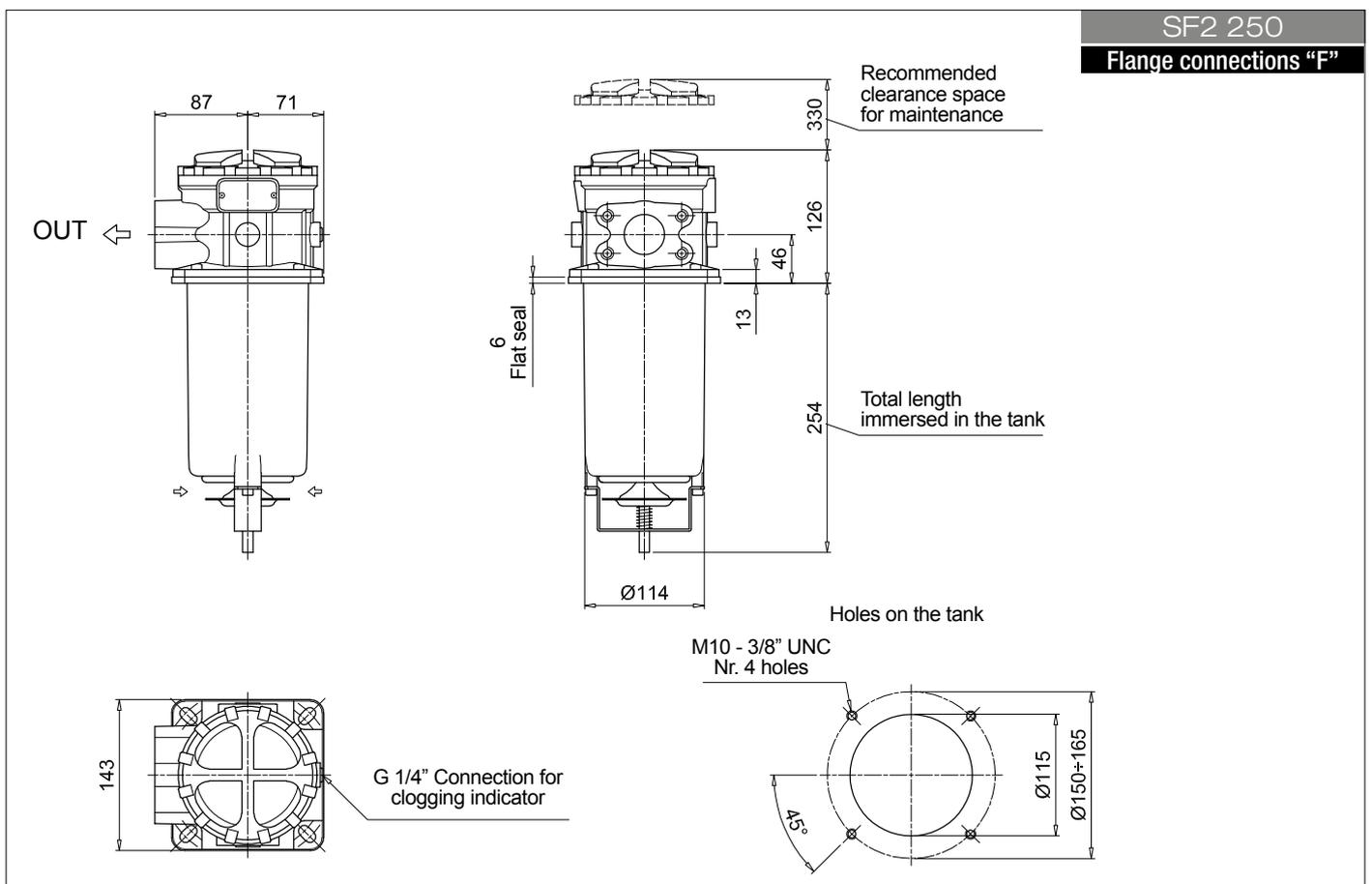
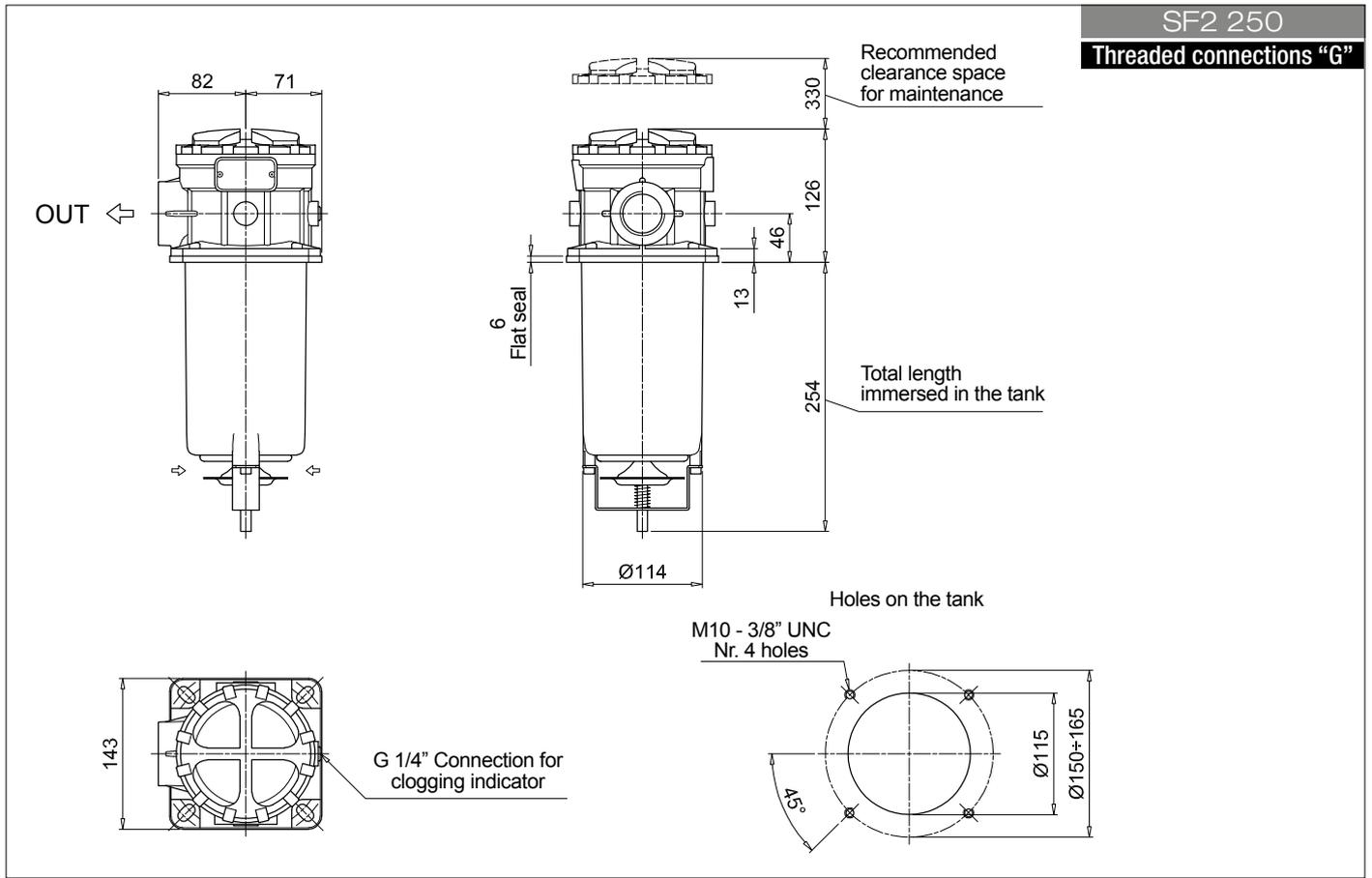
Series and size		Configuration example 1: SF2250 W F2 R M25 P01					
SF2250		Configuration example 2: SF2350 A G1 S M90 P01					
SF2350							
Seals and treatments		Filtration rating					
		Mxx	Pxx				
A	NBR	•	•				
V	FPM	•	•				
W	NBR compatible with fluids HFA-HFB-HFC	•					
Z	FPM compatible with fluids HFA-HFB-HFC	•					
Connections		Aux (only SF2350)	SF2250	SF2350			
G1	G 1 1/2"	G 1"	•	•			
G2	1 1/2" NPT	-	•				
G3	SAE 24 - 1 7/8" - 12 UN	SAE 16 - 1 5/16" - 12 UN	•	•			
G4	G 1 1/4"	-	•				
G5	1 1/4" NPT	-	•				
G6	SAE 20 - 1 5/8" - 12 UN	-	•				
G7	G 1"	-	•				
G8	1" NPT	-	•				
G9	SAE 16 - 1 5/16" - 12 UN	-	•				
F1	1 1/2" SAE 3000 psi/M	-	•				
F2	1 1/2" SAE 3000 psi/UNC	-	•				
Bypass valve and magnetic filter							
R	With bypass, with magnetic filter	Q	Without bypass, with magnetic filter				
S	With bypass, without magnetic filter	H	Without bypass, without magnetic filter				
Filtration 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						
M250	Wire mesh 250 µm						
				Execution			
				P01 MP Filtri standard			
				Pxx Customized			

FILTER ELEMENT

Element series and size		Configuration example 1: SF250 M25 W P01			
SF250		Configuration example 2: SF250 M90 N P01			
Filtration 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				
M250	Wire mesh 250 µm				
Seals and treatments		Filtration rating			
		Mxx	Pxx		
N	NBR	•	•		
V	FPM	•	•		
W	NBR compatible with fluids HFA-HFB-HFC	•			
Z	FPM compatible with fluids HFA-HFB-HFC	•			
				Execution	
				P01 MP Filtri standard	
				Pxx Customized	

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

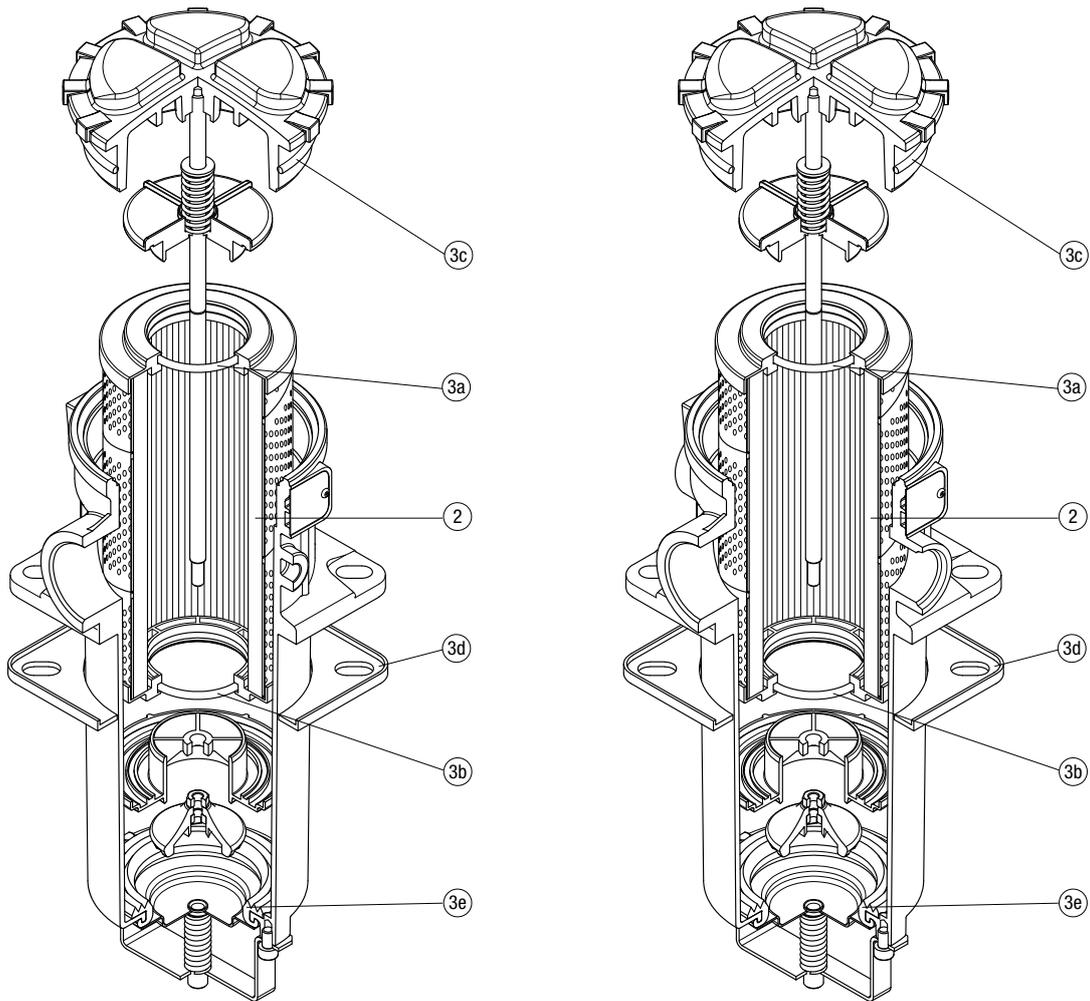


SPARE PARTS SF2 250-350

Order number for spare parts

SF2 250

SF2 350



Item:	Q.ty: 1 pc.	Q.ty: 1 pc.	
Filter series	Filter element	Seal Kit code number	
SF2 250 - 350	See order table	NBR	FPM
	2	02050586	02050587
		3 (3a ÷ 3e)	