

RF2 series

Maximum working pressure up to 2 MPa (20 bar) - Flow rate up to 350 l/min



Description

Return filter

Maximum working pressure up to 2 MPa (20 bar) Flow rate up to 350 l/min

RF2250 and RF2350 are ranges of return filters for side tank mounting with integrated shut-off valve for protection of the reservoir against the system contamination.

They are placed below the minimum oil level, directly connected to the return line of the system.

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 350 l/min
- Bypass valve, to relieve excessive pressure drop across the filter media
- Magnetic column, to hold the ferrous particles
- Visual, electrical and electronic clogging indicators

Common applications:

- Compact mobile machines
- Compact 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 175 kPa (1.75 bar) ±10%

Δp element type

- Microfibre filter elements series CU: 10 bar
- Fluid flow through the filter element from OUT to IN

Seals

- Standard NBR series A
- Optional FPM series V

Temperature

From -25 °C to +110 °C



RF2 250-350 filters mounting, see the drawings on page 235 and following



Weights [kg] and volumes [dm³]

Filter series	Weights [kg]	Volumes [dm³]				
	Length 1	Length 1				
RF2 250	2.6	2.0				
RF2 350	2.8	2.0				



FILTER ASSEMBLY SIZING Flow rates [I/min]

		Filter element design - N Series								
Filter series	Length	A03	A06	A10	A16	A25	M25 M60 M90	P10	P25	
RF2 250	1	148	184	278	307	447	615	447	485	
RF2 350	1	148	184	278	307	447	615	447	485	

Maximum flow rate for a complete return filter with a pressure drop $\Delta p = 0.5$ 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.

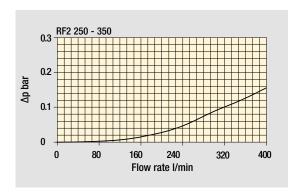
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Filter series	Style B - E
RF2 250	•
RF2 350	•

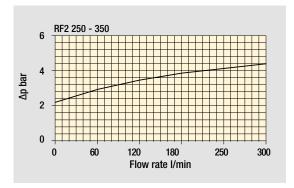


Hydraulic symbols

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.

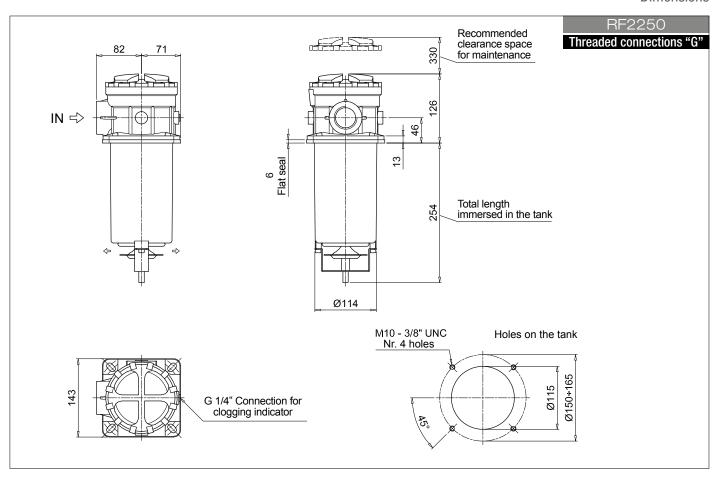


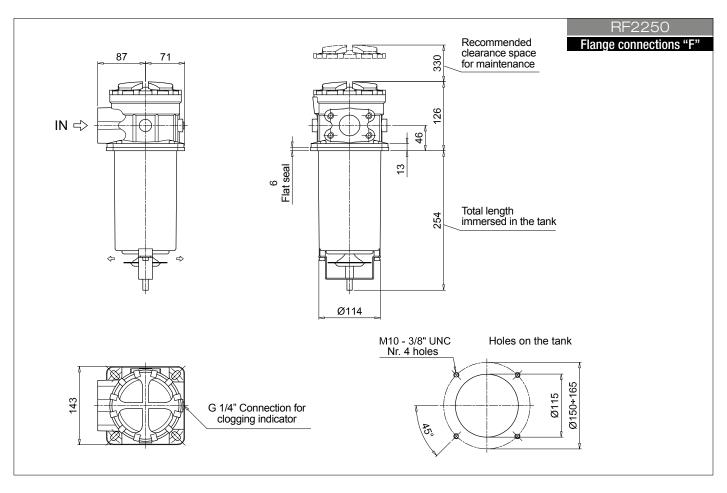
Designation & Ordering code

	COMPLET	F FILTER						
Series and size	30 <u>22.</u>		RF2250	W	F2	E	M25 P	01
RF2250		Configuration example 2:	RF2350	A	G1	В		01
RF2350		ooringaration oxampio 2.	111 2000				AZ3 1 C	
	Filtration rating							
Seals and treatments	Axx Mxx Pxx							
A NBR	• • •							
V FPM	• • •							
W NBR compatible with fluids HF								
Z FPM compatible with fluids HF	A-HFB-HFC • •							
Connections	Aux (only RF2350) Mxx Pxx							
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								
B 1.75 bar								
E 3 bar								
Filtration rating (filter media)	MOE Wire mach OF um							
A03 Inorganic microfiber 3 μm	M25 Wire mesh 25 μm							
A06 Inorganic microfiber 6 μm	M60 Wire mesh 60 μm M90 Wire mesh 90 μm							
A10 Inorganic microfiber 10 μm A16 Inorganic microfiber 16 μm	P10 Resin impregnated paper 10 μm				PO	ecution MP	Filtri standar	rd
A25 Inorganic microfiber 25 μm	P25 Resin impregnated paper 25 μm						tomized	<u>u</u>
M23 ποι garile microniber 25 μm	123 πεδιπ ιπιριεθιιαίευ μάμει 23 μπ				FX	• Gus	UIIIIZU	

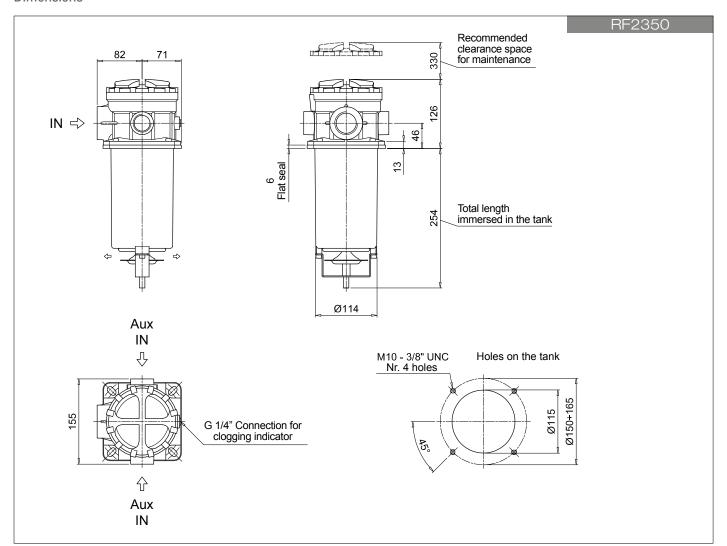
	FILTER ELEMENT	
Element series and size		Configuration example 1: CU250 M25 W P01
CU250		Configuration example 2: CU250 A25 N P01
Filtration rating (filter media)		
A03 Inorganic microfiber 3 μm	M25 Wire mesh 25 μm	
A06 Inorganic microfiber 6 μm	M60 Wire mesh 60 μm	
A10 Inorganic microfiber 10 μm	M90 Wire mesh 90 μm	
A16 Inorganic microfiber 16 μm	P10 Resin impregnated paper 10 µm	
A25 Inorganic microfiber 25 μm	P25 Resin impregnated paper 25 μm	
	Filtration rating	
Seals and treatments	Axx Mxx Pxx	
N NBR	• • •	
V FPM	• • •	Execution
W NBR head anodized filter ele	ment compatible • •	P01 MP Filtri standard
Z FPM head anodized with flui	ment compatibleds HFA-HFB-HFC • •	Pxx Customized

Dimensions





Dimensions





Order number for spare parts

