

RF2 series

Maximum working pressure up to 2 MPa (20 bar) - Flow rate up to 615 l/min



Description

Return filter

Maximum working pressure up to 2 MPa (20 bar) Flow rate up to 615 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 615 l/min
- 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 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

Note

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.

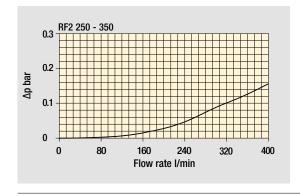
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

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

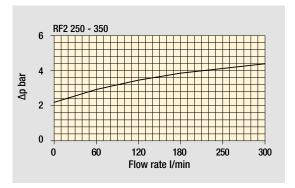


Hydraulic symbols

Pressure drop Filter housings Δp pressure drop



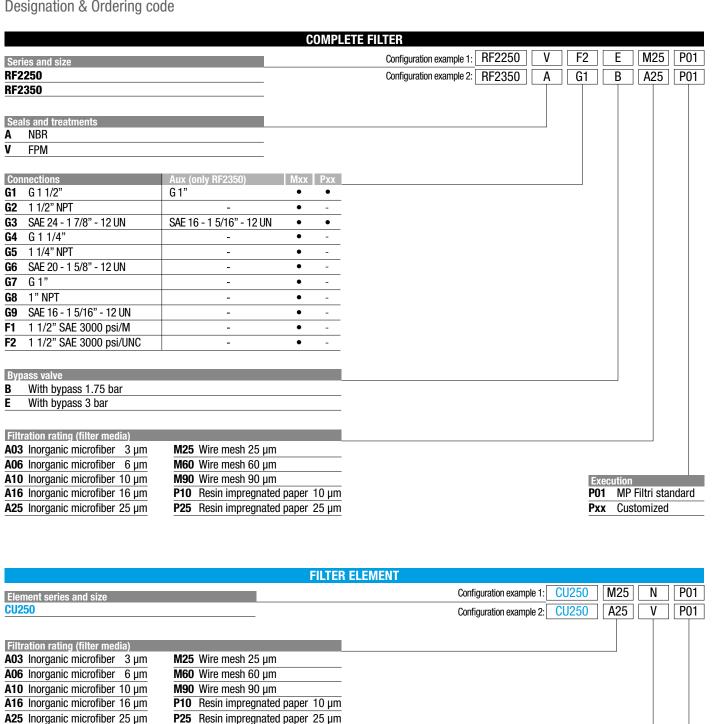
Bypass valve pressure drop



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



(M) MPFILTRI

P01 MP Filtri standard Customized

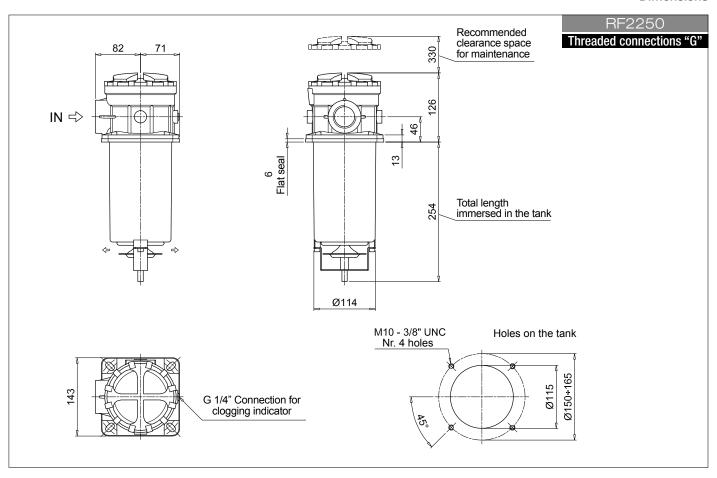
Pxx

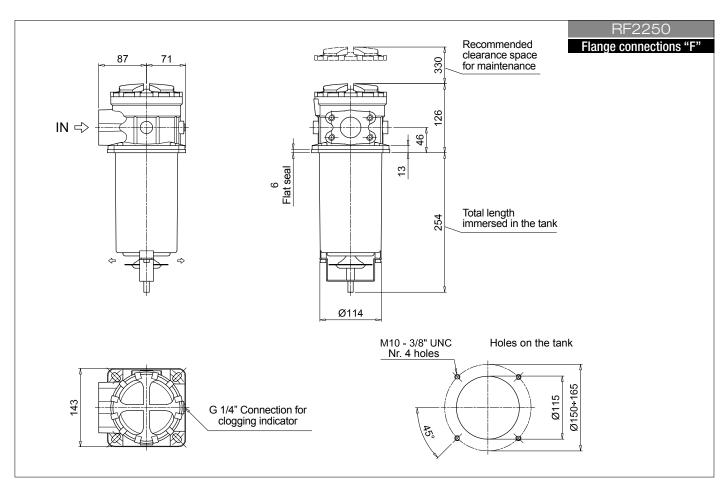
Seals and treatments

NBR FPM

N

Dimensions

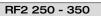


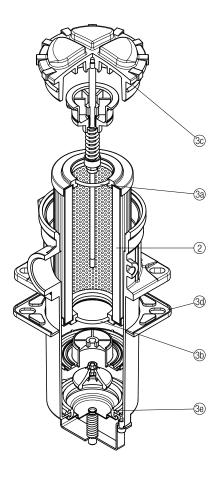


Dimensions

RF2350 Recommended clearance space for maintenance 330 82 71 IN ⇒ 46 13 6 Flat seal Total length immersed in the tank Щ. Ø114 Aux IN M10 - 3/8" UNC Nr. 4 holes Ŷ Holes on the tank Ø150+165 Ø115 155 G 1/4" Connection for clogging indicator 5, $\hat{\mathbf{t}}$ Aux IN

Order number for spare parts





	Q.ty: 1 pc.	Q.ty:	1 pc.	
Item:	2		3 (3a ÷ 3e)	
Filter series	Filter element	Seal Kit code number NBR FPM		
RF2 250 RF2 350	See order table	02050586	02050587	