

Return filter

Maximum working pressure up to 1 MPa (10 bar)

Flow rate up to 3000 l/min

MPI is a range of return filter kits for protection of the reservoir against the system contamination.

They are directly integrated in the reservoir in immersed or semi-immersed position to save space into the tank.

The use of the diffuser is recommended, to place the filter output always immersed into the fluid to avoid aeration or foam generation into the reservoir.

The filtration from inside to outside allows a cleaner filter element replacement, the dirty remains into the filter element.

Available features:

- Fine filtration rating, to get a good cleanliness level into the reservoir
- Bypass valve, to relieve excessive pressure drop across the filter media
- Magnetic column, to hold the ferrous particles
- Oil dipstick, to easily check the level of the fluid into the reservoir (separate item)
- Diffuser, to reduce the risk of aeration, foaming and noise

Common applications:

Heavy duty industrial equipment

Filter housing materials

- Insert assembly
Polyamide, GF reinforced: MPI 100
Aluminium: MPI 250-630-850

- Diffuser: Tinned Steel

- Valve: Steel

Bypass valve

- Opening pressure 175 kPa (1.75 bar) $\pm 10\%$
- Opening pressure 250 kPa (2.5 bar) $\pm 10\%$, except for MPI 850

Δp element type

- Microfibre filter elements - series MR: 10 bar
- 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

MPI filters are provided for vertical mounting



MPI MPI100 - MPI250 - MPI630 - MPI850

Designation & Ordering code

COMPLETE FILTER

Series and size					Configuration example 1: MPI100 1 C D A A10 P01						
MPI100					Configuration example 2: MPI630 5 E D Z M25 P01						
MPI250											
MPI630											
MPI850											
Length											
1											
2											
3											
4											
5											
Bypass valve											
S Without											
C 1.75 bar											
E 2.5 bar											
Diffuser and magnetic column											
D With diffuser, with magnetic column											
F With diffuser, without magnetic column											
O Without diffuser, with magnetic column											
E Without diffuser, without magnetic column											
Seals and treatments					Filtration rating						
					Axx Mxx Pxx						
A NBR											
V FPM											
W NBR head anodized					filter element compatible with fluids HFA-HFB-HFC						
Z FPM head anodized											
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						
					Execution						
					P01 MP Filtri standard						
					Pxx Customized						

FILTER ELEMENT

Element series and size					Configuration example 1: MR100 1 A10 A P01				
MR100					Configuration example 2: MR630 5 M25 V P01				
MR250									
MR630									
MR850									
Element length									
Size 100									
Size 250									
Size 630									
Size 850									
1									
2									
3									
4									
5									
Filtration rating (filter media)									
A03 Inorganic microfiber 3 µm					M25 Wire mesh 25 µm				
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					Seals				
					A NBR				
					V FPM				
					Execution				
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					Pxx Customized				