

FMM series

Maximum working pressure up to 42 MPa (420 bar) - Flow rate up to 250 I/min





FMM general information

Description

High Pressure filters

In-line

Maximum working pressure up to 42 MPa (420 bar) Flow rate up to 250 I/min

FMM is a range of versatile high pressure filter for protection of sensitive components in high pressure hydraulic systems in the mobile machines.

They are directly connected to the lines of the system through the hydraulic fittings.

Available features:

- Female threaded connections up to 1 1/4", for a maximum flow rate of 250 l/min
- Fine filtration rating, to get a good cleanliness level into the system
- Bypass valve, to relieve excessive pressure drop across the filter media
- Low collapse filter element "N", for use with filters provided with bypass valve
- Low collapse filter element with external support "R", for filter element protection against the back pressure caused by the check valve in filters provided with the bypass valve
- High collapse filter element with external support "S", for filter element protection against the back pressure caused by the check valve in filters not provided with the bypass valve
- Visual, electrical and electronic differential clogging indicators

Common applications:

- Agricultural machines
- Mobile machines

Technical data

Filter housing materials

- Housing: Phosphatized steel

- Head
- Phosphatized cast iron: FMM 050 Painted cast iron: FMM 150
- Bypass valve: Steel

Pressure

- Test pressure: 63 MPa (630 bar)
- Burst pressure: 126 MPa (1260 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 42 MPa (420 bar)

Bypass valve

- Opening pressure 600 kPa (6 bar) ±10%
- Other opening pressures on request.

∆p element type

- Microfiber filter elements series N-R: 20 bar
- Microfiber filter elements series S: 210 bar
- Wire mesh filter elements series N: 20 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

Connections In-line Inlet/Outlet

Note FMM filters are provided for vertical mounting



Weights [kg] and volumes [dm³]

Filter series	Weights [kg]						Volumes [dm ³]					
	Length						Length					5
FMM 050		3.11	3.48	3.90	4.36	5.54		0.34	0.48	0.63	0.81	1.23
FMM 150		7.50	9.50	10.90	-	-		0.60	1.00	1.25	-	-



FMM FMM050

Designation & Ordering code

	COMPLETE FILTER	
Caulas and size	Configuration example: FMM050	3 B A G A10 N P01
Series and size FMM050		
rmm050		
Length		
1 2 3 4 5		
Values		
Valves		
S Without bypass		
B With bypass 6 bar		
T With check valve, without bypass		
D With check valve, with bypass 6 bar	i%	
Seals		
A NBR	17	
V FPM		
Connections.		
Connections		n,
A M18x1.5 - ISO 6149		
B M22x1.5 - ISO 6149	iti	
C G 1/2"	<u></u>	
D G 3/4"	<u>2</u> 2	
E 1/2" NPT	i)	
F 3/4" NPT		
G SAE 8 - 3/4" - 16 UNF	iú	
H SAE 12 - 1 1/16" - 12 UN		
A10 Inorganic microfiber 10 μm A16 Inorganic microfiber 16 μm	Valves Element ∆p S B T D 20 bar • • • 20 bar • • 20 bar • • 210 bar • •	Execution P01 Upper connection for clogging indicator P02 Without connection for clogging indicator P03 Frontal connection for clogging indicator Pxx Customized
E.	FILTER ELEMENT	
Element series and size HP050	Configuration example	e: HP050 3 A10 A N P01
Element length 1 2 3 4 5		
A10 Inorganic microfiber 10 µm	Seals A NBR V FPM S 210 ba	ar Pxx Customized

ACCESSORIES

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DEH	Hazardous area electronic differential indicator	567-568
DEM	Electrical differential indicator	568-569
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DLE	Electrical / visual differential indicator	570
DTA	Electronic differential indicator	571
DVA	Visual differential indicator	571
DVM	Visual differential indicator	571

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High Pressure filters

Dimensions

