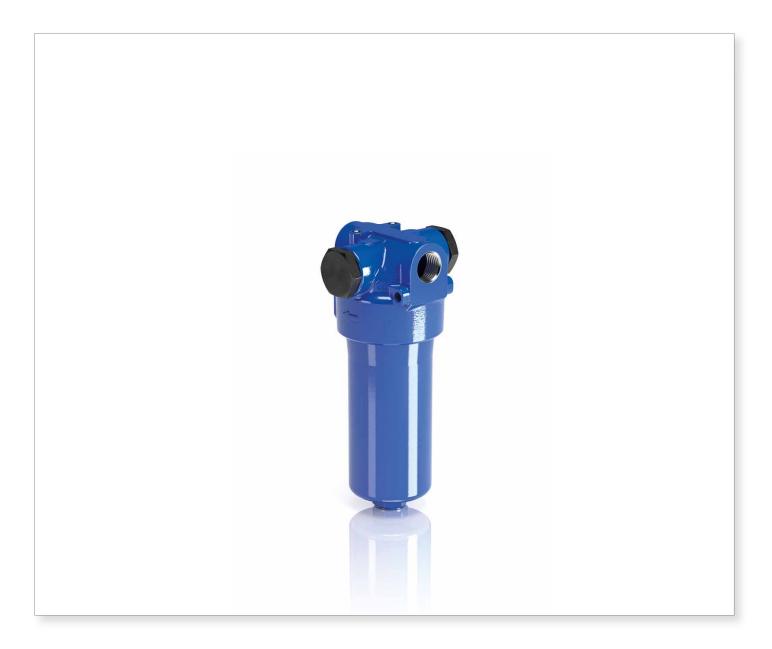


FMP 039 series

Maximum working pressure up to 11 MPa (110 bar) - Flow rate up to 80 l/min





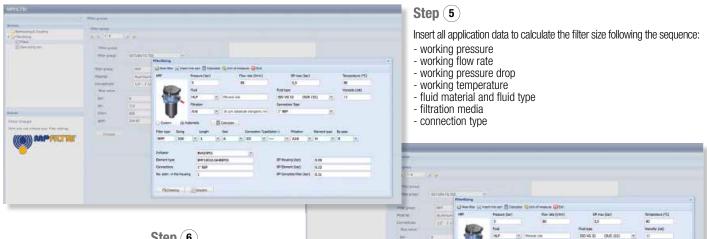
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Selection Software



Choose filter type (MPF, MPT, etc.) in function of Step (3) the max working pressure and the max flow rate





Step (6)

Push "CALCULATE" to have result; in case of any mistake, the system will advice which parameter is out of range to allow to modify/adjust the selection







Step (7) Download PDF Datasheet "Report.aspx" pushing the button "Drawing"

FMP 039 GENERAL INFORMATION

Description

Technical data

High Pressure filters

In-line

Maximum working pressure up to 11 MPa (110 bar) Flow rate up to 80 l/min

FMP039 is a range of versatile medium pressure filter for transmission, protection of sensitive components in medium pressure hydraulic systems and filtration of the coolant into the machine tools. They are directly connected to the lines of the system through the hydraulic fittings.

Available features:

- 1/2" female threaded connections, for a maximum flow rate of 80 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
- Visual, electrical and electronic differential clogging indicators

Common applications:

Delivery lines, in any medium pressure industrial equipment or mobile machines

Filter housing materials

- Head: Anodized aluminium
- Housing: Anodized aluminium
- Bypass valve: Steel

Pressure

- Test pressure: 17 MPa (170 bar)
- Burst pressure: 33 MPa (330 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 11 MPa (110 bar)

Bypass valve

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

∆p element type

- Microfibre filter elements series N: 20 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

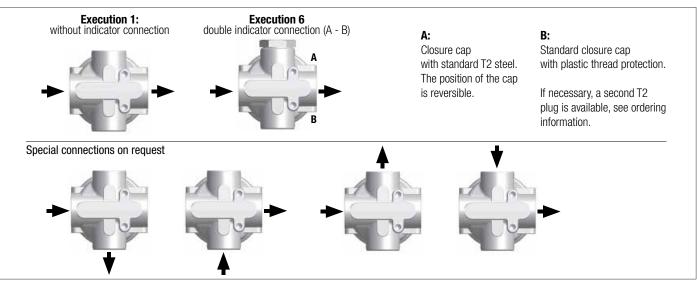
Note FMP 039 filters are provided for vertical mounting



Weights [kg] and volumes [dm³]

Filter series	Weights [kg]			Volumes [dm ³]						
	Length					Length				
FMP 039		0.60	0.70	0.80			0.19	0.26	0.34	

Executions



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FILTER ASSEMBLY SIZING

Flow rates [l/min]

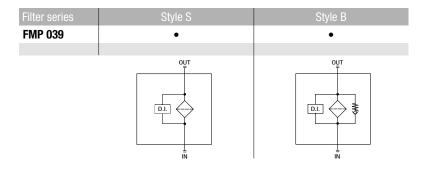
		Filter element design - N Series						
Filter series	Length	A03	A06	A10	A16	A25	M25	
	2	20	26	45	52	61	97	
FMP 039	3	35	39	56	64	76	98	
	4	44	48	66	71	82	92	

Maximum flow rate for a complete pressure filter with a pressure drop $\Delta p = 1.5$ 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.

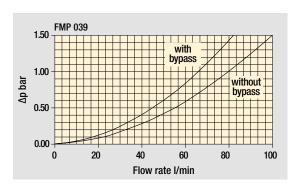
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

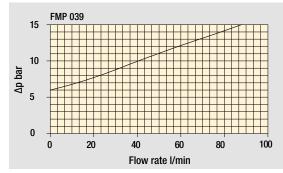


Hydraulic symbols

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.





FMP 039

Designation & Ordering code

	COMPLETE FILTER		
Series and size	Configuration example: FMP039	3 B A B	B 6 A03 N P01
FMP039			
Level			
Length			
Valves			
S Without bypass			
B 6 bar			
Seele			
Seals A NBR			
V FPM			
Connections			
A G 1/2"			
B 1/2" NPT			
C SAE 8 - 3/4" - 16 UNF			
Connection for differential indicator			
1 Without			
6 With two connections on both sides			
Filtration rating (filter media)	(h		
A03 Inorganic microfiber 3 µm A05 Inorganic microfiber 6 µm A25 Inorganic micro			
A06Inorganic microfiber6 μmA25Inorganic microA10Inorganic microfiber10 μmM25Wire mesh	fiber 25 μm 25 μm		
	25 μπ	Element Δ p	Execution
		N 20 bar	P01 MP Filtri standard
			Pxx Customized

FILTER ELEMENT Configuration example: HP039 3 A03 A N P01 Element series and size HP039 **Element length** 2 3 4 Filtration rating (filter media) 16 μm 25 μm A03 Inorganic microfiber 3 µm A16 Inorganic microfiber A06 Inorganic microfiber 6 µm A25 Inorganic microfiber A10 Inorganic microfiber 10 µm M25 Wire mesh 25 µm Seals NBR A V FPM Execution P01 MP Filtri standard Element ∆p Ν 20 bar Pxx Customized

ACCESSORIES

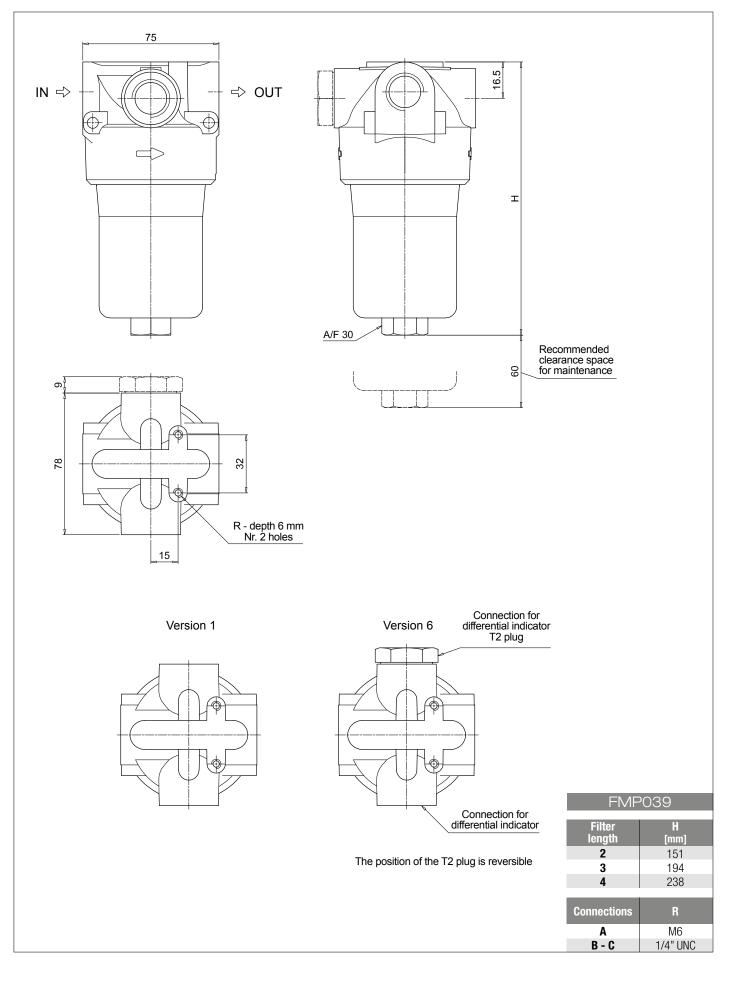
Differential indicators pa			
ical differential indicator	567		
dous area electronic differential indicator	567-568		
ical differential indicator	568-569		
ical / visual differential indicator	569-570		
-			
eatures	page		
	572		
	indicators ical differential indicator rdous area electronic differential indicator ical differential indicator ical / visual differential indicator eatures		

458)

		page
DLE	Electrical / visual differential indicator	570
DTA	Electronic differential indicator	571
DVA	Visual differential indicator	571
DVM	Visual differential indicator	571

FMP 039

Dimensions



FMP 039 spare parts

Order number for spare parts

