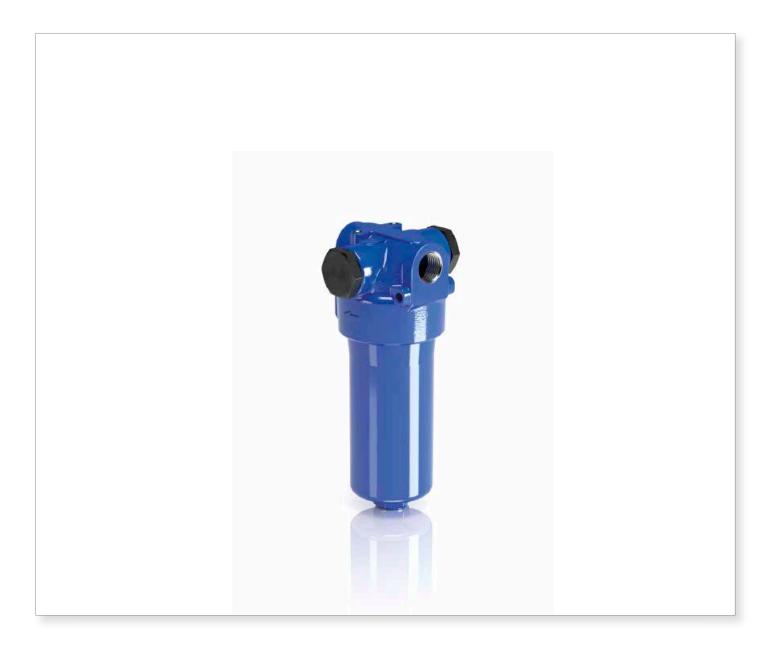


# FMP 039 series

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





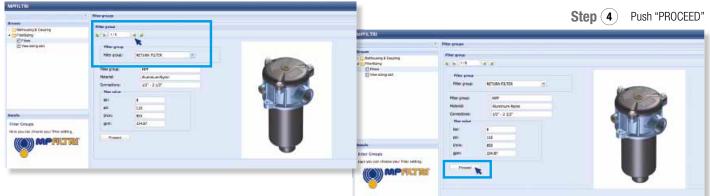
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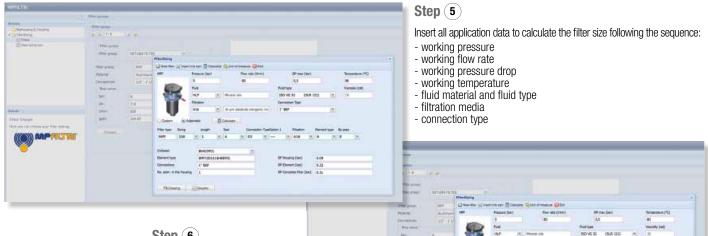
### YPICAL FILTER SIZING Selection Software

#### **Step** (1) Select "FILTERS"



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





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## 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 AOptional FPM series V

#### Temperature From -25 °C to +110 °C

Connections

In-line Inlet/Outlet

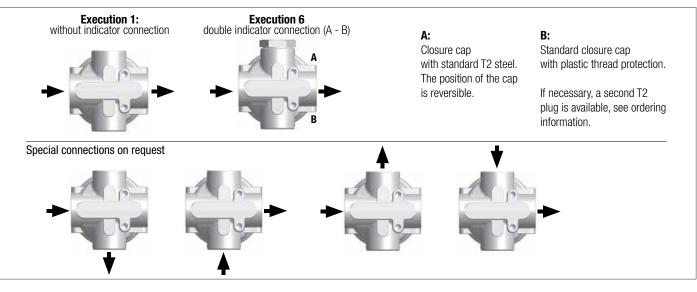
Note FMP 039 filters are provided for vertical mounting



#### Weights [kg] and volumes [dm<sup>3</sup>]

Filter series	Weights [kg]				Volumes [dm <sup>3</sup> ]					
	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]

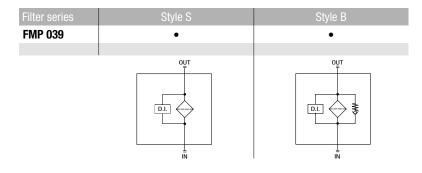
		Filter element design - N Series						
Filter series	Length	A03	A06	A10	A16	A25	M25	
	2	20	26	45	52	61	97	
FMP 039	3	35	39	56	64	76	98	
	4	44	48	66	71	82	92	

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 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

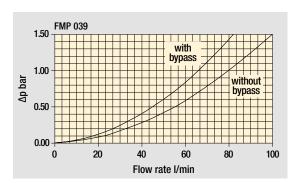
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.



Hydraulic symbols

Pressure drop Filter housings Δp pressure drop

Bypass valve pressure drop



10 5 0 20 40 60 80 100 Flow rate l/min

The curves are plotted using mineral oil with density of 0.86 kg/dm<sup>3</sup> in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

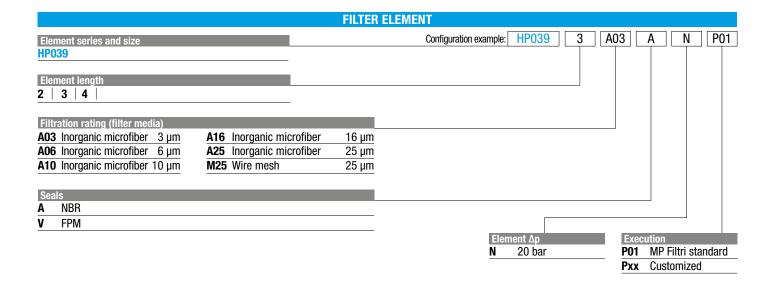




### FMP 039

### Designation & Ordering code

	<b>COMPLETE FILTER</b>		
Series and size	Configuration example: FMP039	3 B A	B 6 A03 N P01
FMP039			
Lageth			
Length			
Valves			
S Without bypass			
B 6 bar			
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)	ikan 10		
A03  Inorganic microfiber  3 µm  A16  Inorganic microf    A06  Inorganic microfiber  6 µm  A25  Inorganic microf			
Allo Inorganic microfiber 10 µm M25 Wire mesh	25 μm		
	<u> </u>	Element ∆p	Execution
		N 20 bar	P01 MP Filtri standard
			Pxx Customized



#### ACCESSORIES

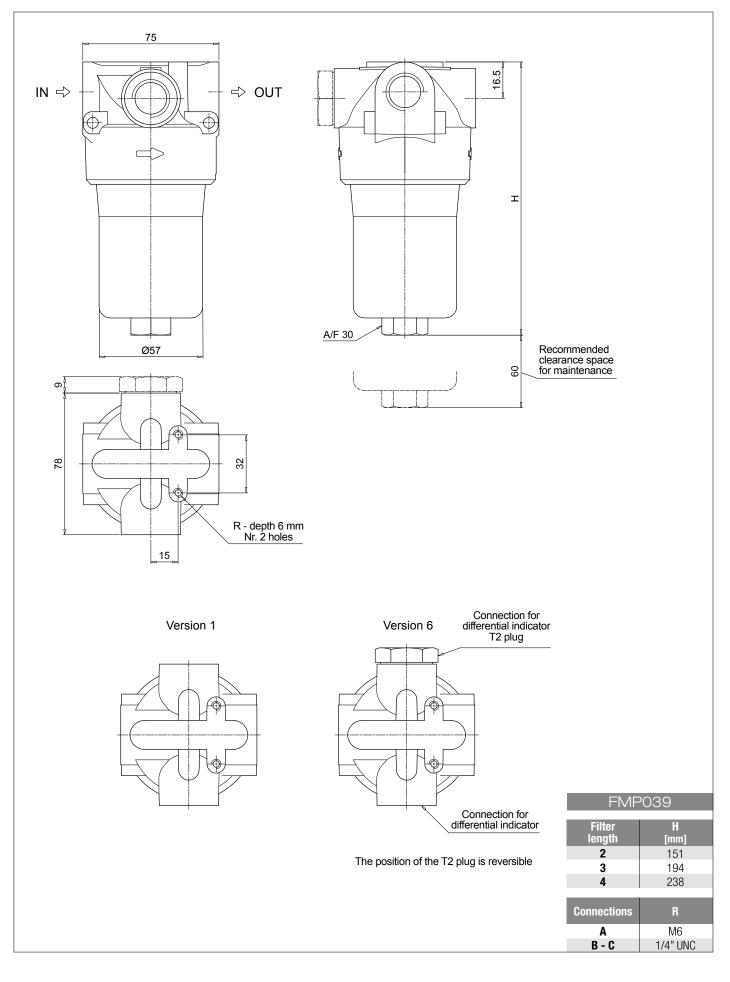
Diffe	page			
DEA	Electrical differential indicator	577		
DEH	Hazardous area electronic differential indicator	577-578		
DEM	Electrical differential indicator	578-579		
DLA	Electrical / visual differential indicator	579-580		
Additional features pag				
T2	Plug	582		

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		page
DLE	Electrical / visual differential indicator	580
DTA	Electronic differential indicator	581
DVA	Visual differential indicator	581
DVM	Visual differential indicator	581

### FMP 039

Dimensions



## FMP 039 spare parts

#### Order number for spare parts

