

FMP 039 series

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



FMP 039 general information

Description

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"
- Visual, electrical and electronic differential clogging indicators

Common applications:

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

Technical data

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.

Δp 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

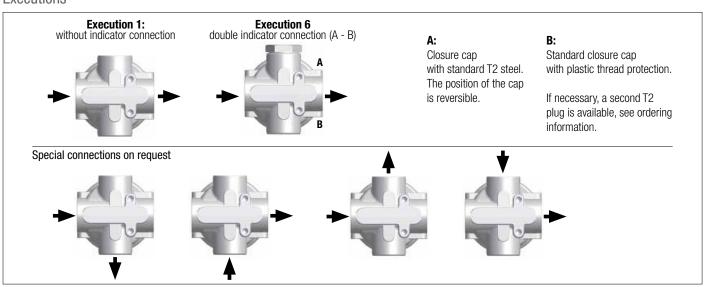
Note

FMP 039 filters are provided for vertical mounting

Weights [kg] and volumes [dm3]

Filter series	Weights [kg]			Volumes [dm³]						
	Length					Length				
FMP 039		0.60	0.70	0.80			0.19	0.26	0.34	

Executions



GENERAL INFORMATION FMP 039

FILTER ASSEMBLY SIZING Flow rates [I/min]

		Filter element design - N Series						
Filter series	Length	A03	A06	A10	A16	A25	M25	
FMP 039	2	20	26	45	52	61	97	
	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.

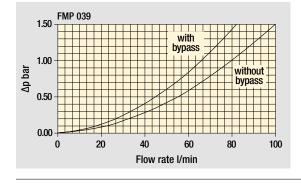
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

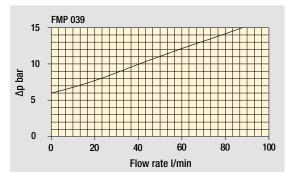
Filter series	Style S	Style B		
FMP 039	•	•		
	о <u>и</u> т Т	OUT T		
	D.I.	D.I.		
	IN	IN IN		

Pressure drop

Filter housings Δp pressure drop



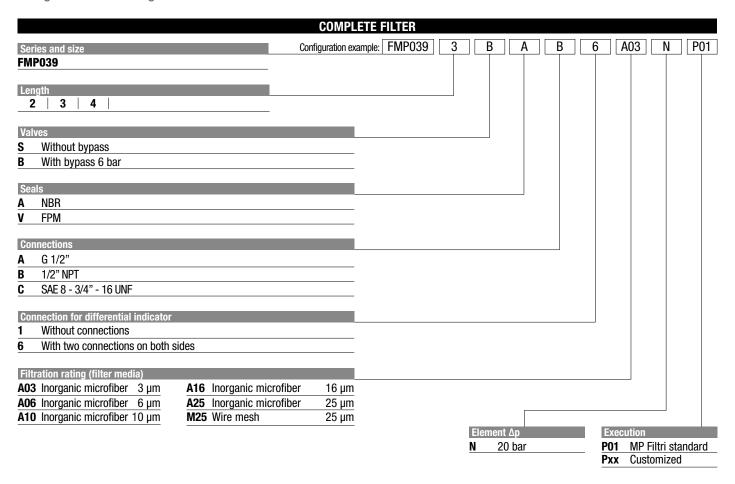
Bypass valve pressure drop

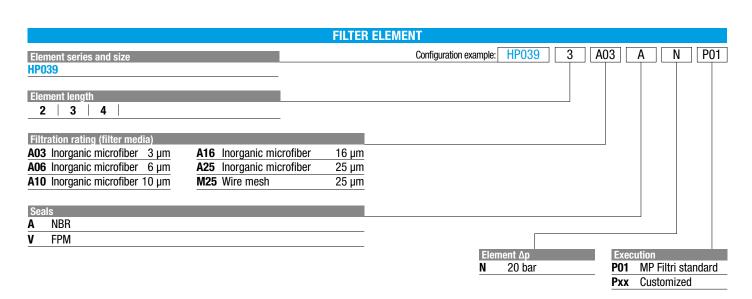


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



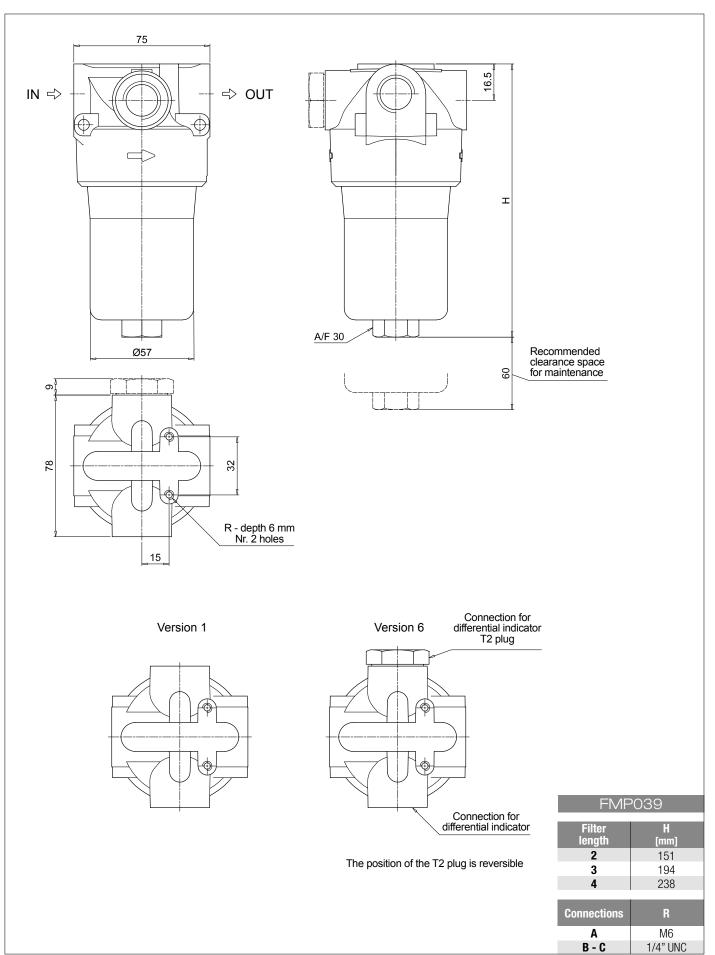
Designation & Ordering code





CLOGGING INDICATORS See						
DEA	Electrical differential indicator		DTA	Electrical differential indicator		
DEM	Electrical differential indicator		DVA	Visual differential indicator		
DLA	Electrical / visual differential indicator		DVM	Visual differential indicator		
DLE	Electrical / visual differential indicator					
		PLUGS			Coo naga 706	
		PLUGS			See page 706	
T2	Differential indicator plug					

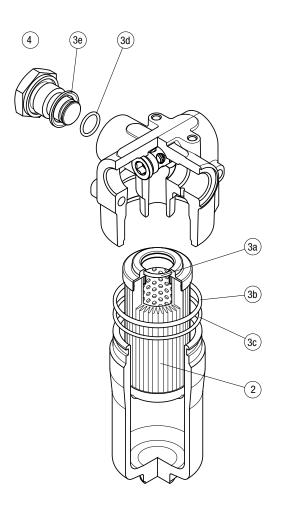
Dimensions



FMP 039 SPARE PARTS

Order number for spare parts





Item:	Q.ty: 1 pc.	Q.ty: 1 pc. (3) (3a ÷ 3e)		
Filter series	Filter element	Seal Kit code number NBR FPM		
FMP 039	See order table	02050509	02050510	