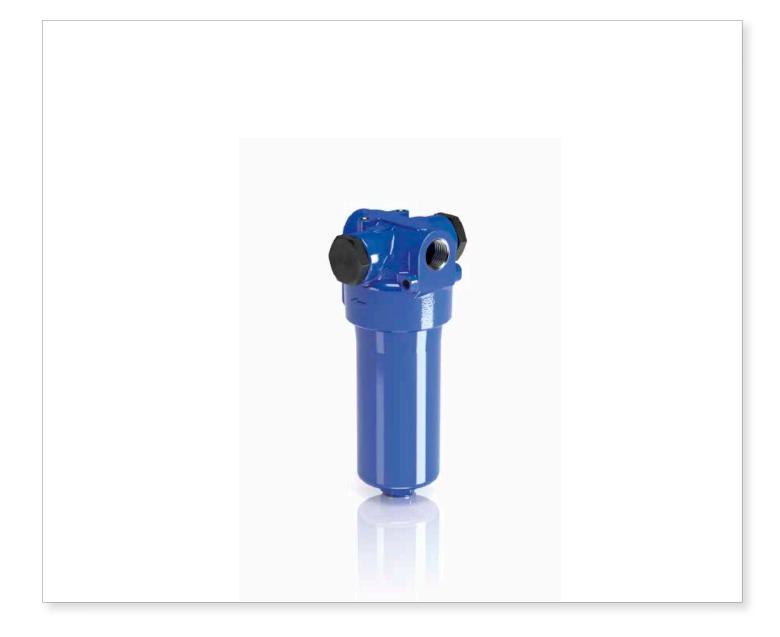


FMP 039 series

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



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



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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

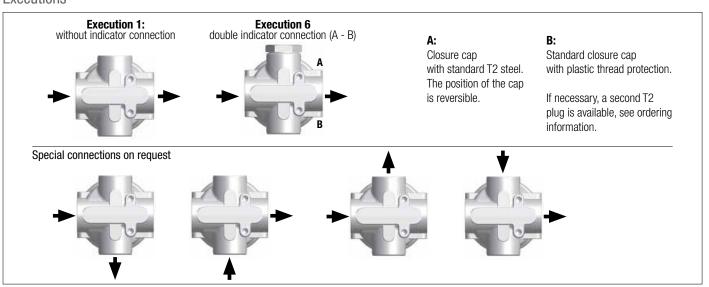
Note

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

Flow rates [I/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.

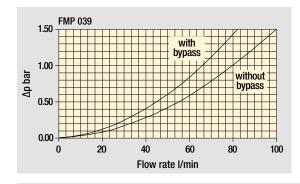
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

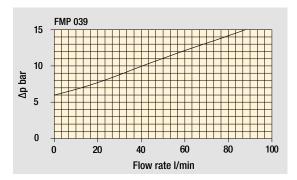
Filter series	Style S	Style B
FMP 039	•	•
	OUT T	OUT T
	D.I.	D.I.
	± IN	± IN

Pressure drop

Filter housings Δp pressure drop



Bypass valve pressure drop

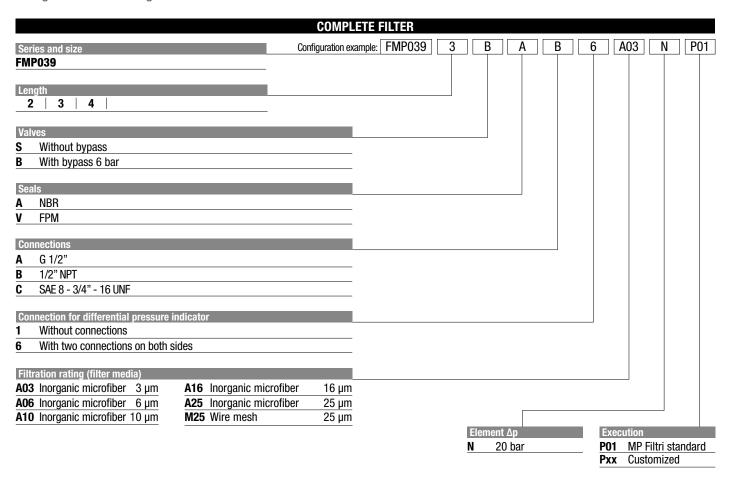


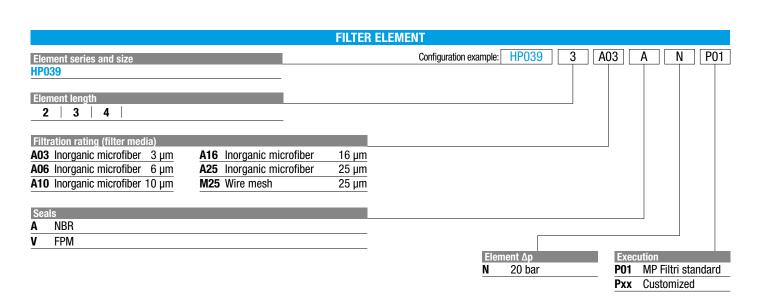
The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



FMP 039

Designation & Ordering code





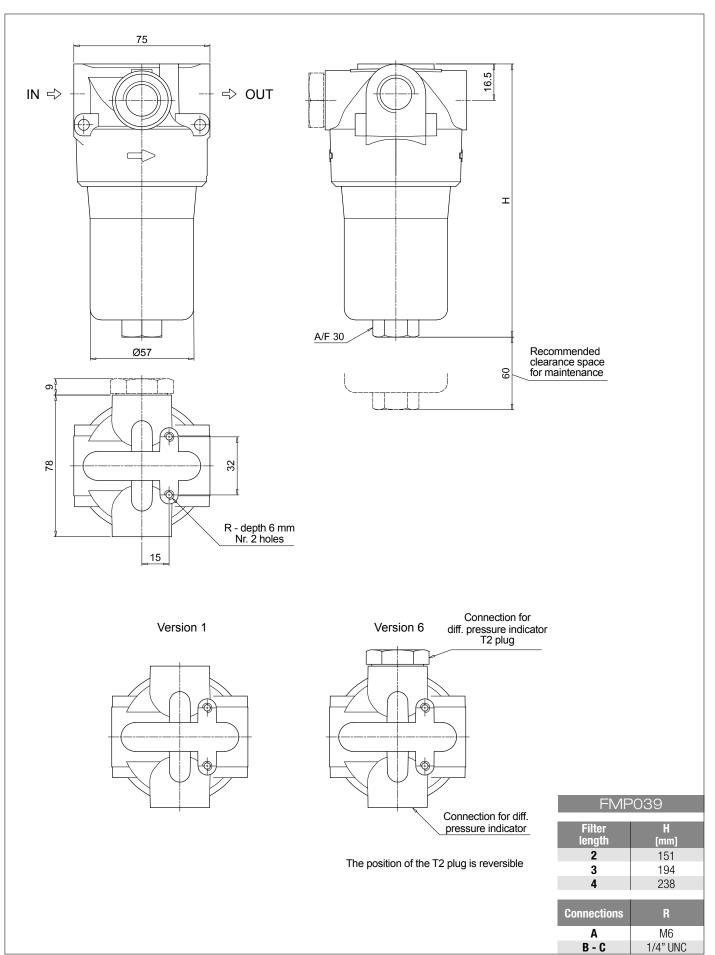
CLOGGING INDICATORS						
DEA	Electrical differential pressure indicator	DLE	Electrical / visual differential pressure indicator			
DEM	Electrical differential pressure indicator	DTA	Electronic differential pressure indicator			
DEU	Electrical differential pressure indicator	DVA	Visual differential pressure indicator			
DLA	Electrical / visual differential pressure indicator	DVM	Visual differential pressure indicator			

PLUGS

See page 747

T2 Plug (not included)

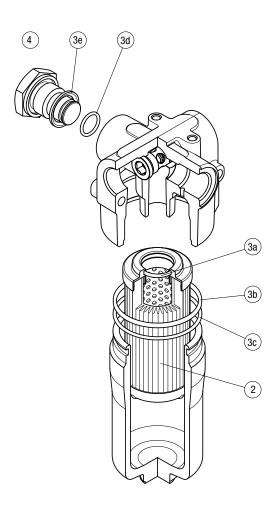
Dimensions



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 numb				
FMP 039	See order table	02050509	02050510			

Designation & Ordering code

		DIFFE	RENTIAL PI	RESSURE IN	IDICATO	RS						
Series		_	Configu	ration example 1:	DE	M	12	2 H	F	50	P01	
	cal differential pressure indicator		Configu	ration example 2:	DE	U	50) V	Α	50	P01	UL
	cal/Visual differential pressure indica	tor	=	ration example 3:		E	20		A	71	P01	
	nic differential pressure indicator		•	ration example 4:		A	50		F	70	P01	
DV Visual	differential pressure indicator		-	-						70		
			Configu	ration example 5:	DV	M	70) <u>V</u>	J _┬	_	P01	
Туре	ne ne	N DT	DV									
A Standa	rd type	• • A	With automatic	rocat								
	• •		With manual re		=							
			With manaan	3001	_							
		• -										
	· · · · · · · · · · · · · · · · · · ·	DIA DI-	DTA DVA	DIME								
Pressure se		DLA DLE	DTA DVA	DVM								
70 7.0 bar		• •	• •	•								
95 9.5 bar		• •	• •	•								
					_							
Seals	DEA DI	EM DEU DL	A DLE DTA	A DVA DVI	Λ							
H HNBR	•		• •	• •	_							
V FPM		• • •	• •	• •	_							
Thermostat		EM DEU DL	A DLE DT									
	t thermostat •	• • •	• -	_								
F With th	ermostat -	•	• •	_								
Electrical c	onnections			DEA DEM	DEU DL	A DLE	DT					
10 Connec	ction AMP Superseal series 1.5			- •		-	-					
20 Connec	ction AMP Timer Junior			- •		-	-					
30 Connec	ction Deutsch DT-04-2-P			- •		-	-					
35 Connec	ction Deutsch DT-04-3-P			- •		-	-					
	ction EN 175301-803			• -	• -	•	-					
	ction EN 175301-803, transparent ba				- •	-	-					
	ction EN 175301-803, transparent ba	ase with lamps	110 Vdc		- •	-	-					
	ction IEC 61076-2-101 D (M12)						•					
71 Conne	ction IEC 61076-2-101 D (M12), blac	ck base with la	mps 24 Vdc		- •	-	-	:				
								Option				
								P01 N	/IP Filtri st	andard		
								Pxx (Customize	d	_	
								Certific		DI	U OT	HERS
									thout certificati	on •		•
								UL UL	ceruncau	UII •	*	

	PLUGS
Series	Configuration example T2 H
Series T2 Plug	
Seals	
H HNBR	
V FPM	