

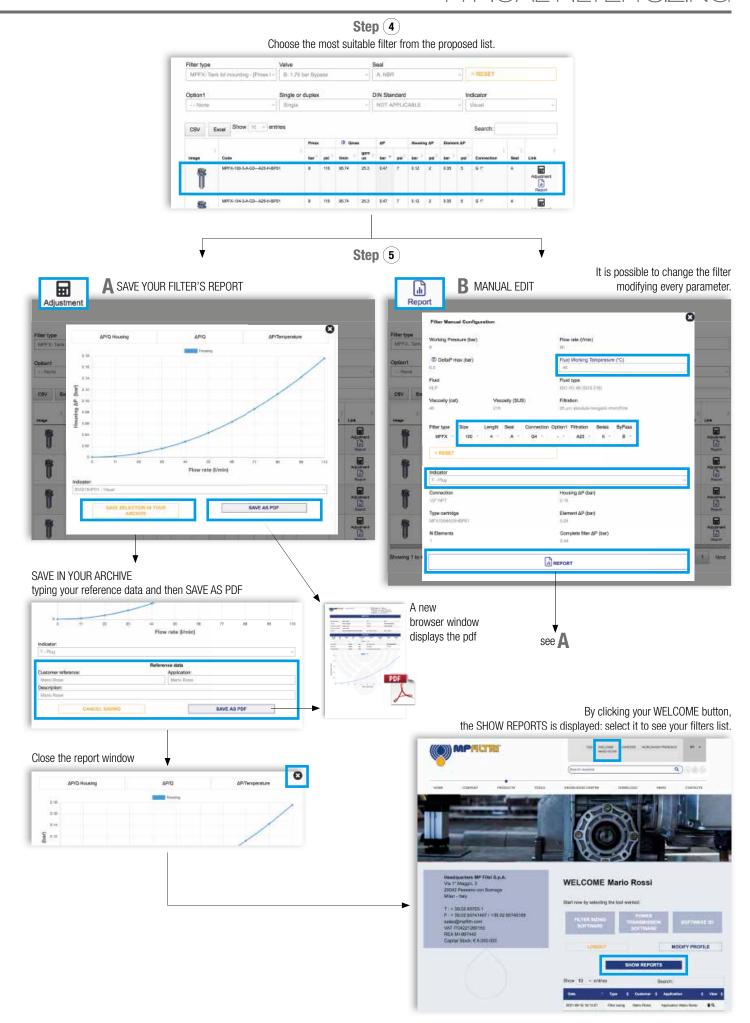
FZM series

Maximum working pressure up to 32 Mpa (320 bar) - Flow rate up to 70 l/min



TYPICAL FILTER SIZING Selection Software





1 GENERAL INFORMATION

Description

Technical data

Stainless steel high pressure filters

Maximum working pressure up to 32 Mpa (320 bar) Flow rate up to 70 I/min

FZM is a range of stainless steel high pressure filter for protection of sensitive components in high pressure hydraulic systems placed in difficult environmental conditions.

They are directly connected to the top of the manifold, through the proper flanged interface.

Available features:

- Manifold connections up to Ø15 mm, for a maximum flow rate of 70 I/min
- ISO 4401 CETOP 3 and CETOP 5 interface, for direct mounting on the CETOP valves.
- Fine filtration rating, to get a good cleanliness level into
- Bypass valve, to relieve excessive pressure drop across the filter media
- Low collapse filter element with external support "R", for filter element protection against the back pressure caused by the check valve or the reverse flow 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 or the reverse flow in filters not provided with the bypass valve
- High collapse filter element "U", for use with aggressive
- Visual, electrical and electronic differential clogging indicators

Common applications:

- Off-shore equipment
- Water filtration systems
- Systems with strong or corrosive environmental conditions
- Systems with corrosive fluids

Filter housing materials

- Head: AISI 316L
- Housing: AISI 316L
- Bypass valve: AISI 316L

Seals

- Standard NBR series A (-25 °C to +110 °C)
- Optional FPM series V (-20 °C to +120 °C)
- Optional MFQ series F (-50 °C to +120 °C)

Bypass valve

Opening pressure 6 bar ±10%

Temperature

From -50 °C to +120 °C

Note

FZM filters are provided for vertical mounting

Δp element type

Fluid flow through the filter element from OUT to IN

Microfibre filter elements - series R: 20 bar.

Element series "R":

- End cap: Nylon
- Core tube: Tinned Steel
- External/Internal support: Wire mesh Epox painted
- Media/Support/Pre-filter: Microfibre/Syntetic

Microfibre filter elements - series S: 210 bar.

Element series "S":

- End cap: Tinned Steel
- Core tube: Tinned Steel
- External support: Wire mesh Epox painted
- Internal support: Wire mesh Stainless Steel
- Media/Support/Pre-filter: Microfibre/Syntetic

Stainless Steel Microfibre filter elements series U: 210 bar.

Element series "U":

- End cap: Stainless Steel
- Core tube: Stainless Steel
- External support: Stainless Steel
- Internal support: Stainless Steel
- Media/Support/Pre-filter: Microfibre/Syntetic



Weights [kg] and volumes [dm³]

Filter series	Weights [kg]					Volumes [dm³]				
	Length					Length				
FZM 039		-	5.0	5.6	6.1		-	0.19	0.26	0.34



FILTER ASSEMBLY SIZING Flow rates [I/min]

			Filter elem	ent design	- R Series		Filter element design - S-U Series				
Filter series	Length	A03	A06	A10	A16	A25	A03	A06	A10	A16	A25
	2	19	25	41	47	54	19	23	39	43	51
FZM 039	3	33	36	50	56	65	30	33	45	49	60
	4	41	44	58	64	70	37	39	51	63	68

Maximum flow rate for a complete stainless steel high pressure filter with a return 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.

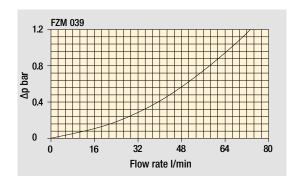
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

FZM 039	Filter series	Style S	Style B
	FZM 039	•	•
		ОПТ	OUT T
L L L L L L L L L L L L L L L L L L L			D.I.

Pressure drop

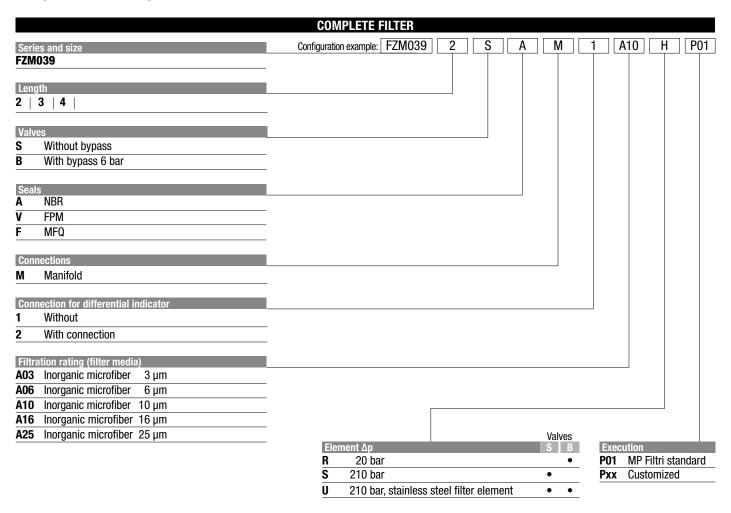
Filter housings Δp pressure drop

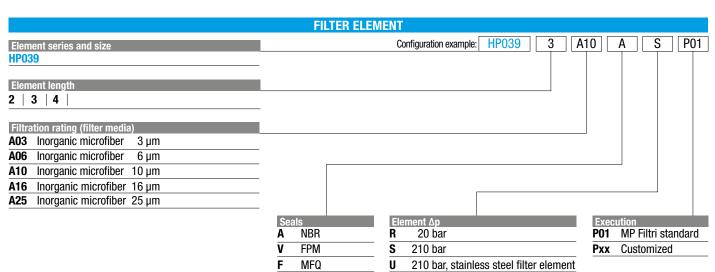


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



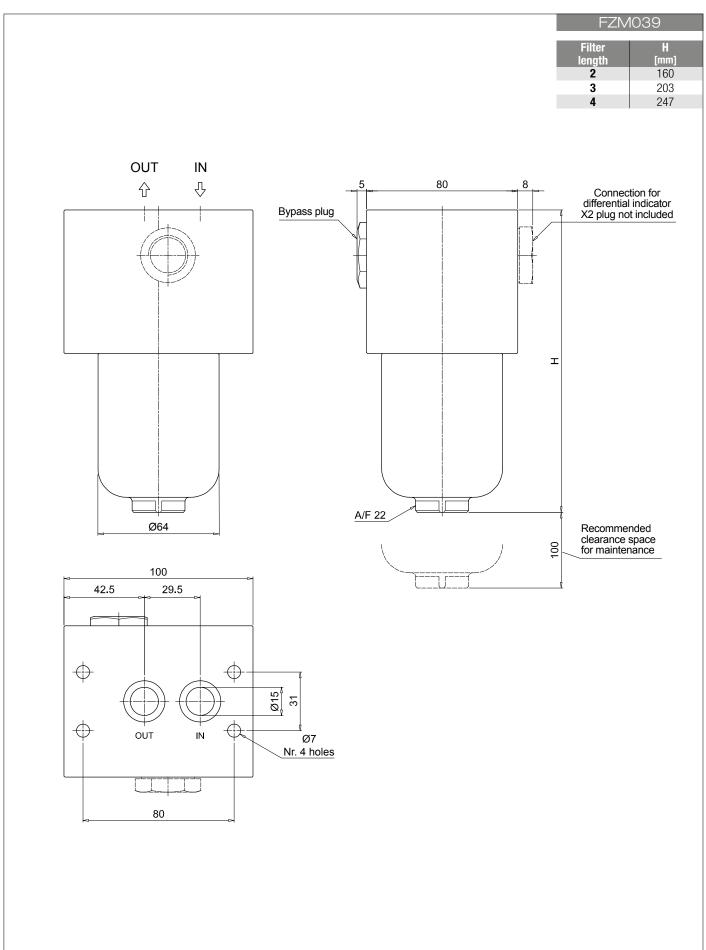
Designation & Ordering code



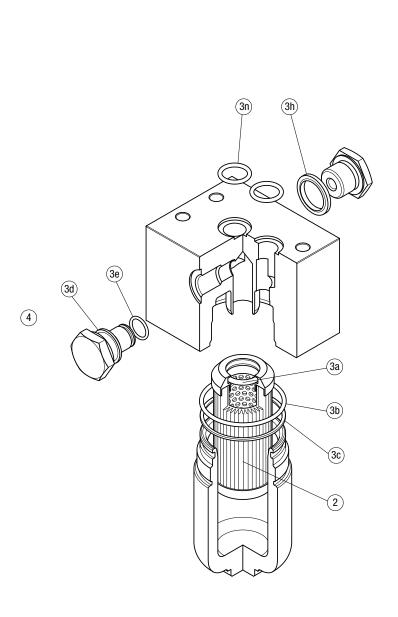


		ACCES	SORIES	
Diffe	rential indicators	page		page
DEH	Hazardous area electronic differential indicator	642	DVX Visual differential indicator	643
DEX	Electrical differential indicator	643	DVY Visual differential indicator	644
DLX	Electrical / visual differential indicator	643		
Addi	Additional features			
X2	Plug	644		

Dimensions



Order number for spare parts



FZM 039

	Q.ty: 1 pc.	Q.ty:	1 pc.	Q.ty:	1 pc.	
Item:	2	3	(3a ÷ 3n)	4		
Filter series	Filter element	Seal Kit co NBR	de number FPM	Indicator connection plug NBR FPM		
FZM 039	See order table	02050651	02050652	X2H	X2V	