

Protect the performance of your system with MYclean.

Quality and efficiency are fundamental for MP Filtri:
this exclusive new filter element possesses polygon shape geometry and specific seal that ensures only original spare parts can be used - ensuring correct operation and higher system reliability.

FMMX 050 series

with MCLEAN HPX 050 Filter Element



- Protects the machine from improper use of non-original products.
- Safety of constant quality protection & reliability

With exclusive filter element you are sure that only MP Filtri filter elements can be used, ensuring the best cleaning level of the oil due to the use of originals filter elements.



The products identified as FMMX 050 are protected by:

- Italian Patent n° 102014902261205
- Canadian Patent n° 2,937,258
- European Patent n° 3 124 092 B1
- US Patent n° 20170030384 A1

TOGETHER WITH Waw , AS OPTION, FMMX 050 SERIES CAN BE PROVIDED WITH



THE ANTI-STATIC FILTERS

THE **Z** CONCEPT FOR OUR FILTERS



Zerospark® is a specialist solution designed to solve the problem of electrostatic discharge inside hydraulic filters. Caused by the electrical charge build-up due to the passage of oil through the filters, this can result in damage to filter elements, oils and circuit components. It can even cause fire hazards in environments where flammable materials are present.



FMMX 050 series

Maximum working pressure up to 42 MPa (420 bar) - Flow rate up to 154 l/min



GENERAL INFORMAT

Description

High Pressure filters

Maximum working pressure up to 42 MPa (420 bar) Flow rate up to 154 I/min

FMMX is a range of versatile high pressure filter for protection of sensitive components in high pressure hydraulic systems in the mobile

They are directly connected to the lines of the system through the hydraulic fittings.

Available features:

- Female threaded connections up to 1 1/4", for a maximum flow rate of 250 I/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
- Visual, electrical and electronic differential clogging indicators
- MYclean interface connection for the filter element, to protect the product against non-original spare parts.
- External protective wrap, to optimize the flow through the element and to save the element efficiency against non-proper handling

Common applications:

- Agricultural machines
- Mobile machines

Technical data

Filter housing materials

- Head: Painted cast iron, black RAL 9005
- Housing: Phosphatized steel
- Bypass valve: Steel

Pressure

- Test pressure: 63 MPa (630 bar)
- Burst pressure: 126 MPa (1260 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 42 MPa (420 bar)

Bypass valve

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

Δp element type

- Microfiber 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

FMMX filters are provided for vertical mounting

Weights [kg] and volumes [dm3]

Filter series	Weights [kg]				Volumes [dm³]								
	Length						Length						
FMMX 050		3.11	3.48	3.90	4.36	5.54		0.34	0.48	0.63	0.81	1.23	



GENERAL INFORMATION FMMX 050

FILTER ASSEMBLY SIZING Flow rates [I/min]

		Filter element design - N Series							
Filter series	Length	A03	A06	A10	A16	A25	M25		
	1	42	43	79	82	106	147		
	2	52	57	85	96	121	149		
FMMX 050	3	66	69	97	106	130	150		
	4	83	89	113	115	134	152		
	5	107	110	130	134	141	154		

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.

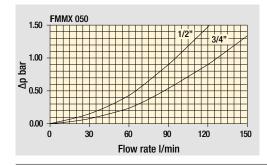
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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.

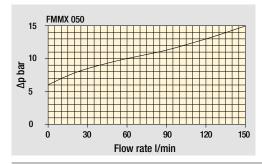
Hydraulic symbols

Filter series	Style S	Style B	Style T	Style D
FMMX 050	OUT TO THE PART OF	OUT D.I.	OUT D.I.	OUT =

Pressure drop Filter housings Ap pressure drop

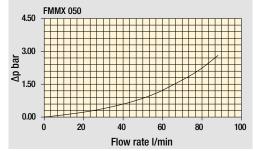


Bypass valve pressure drop



Filter housing with check valve

Valves

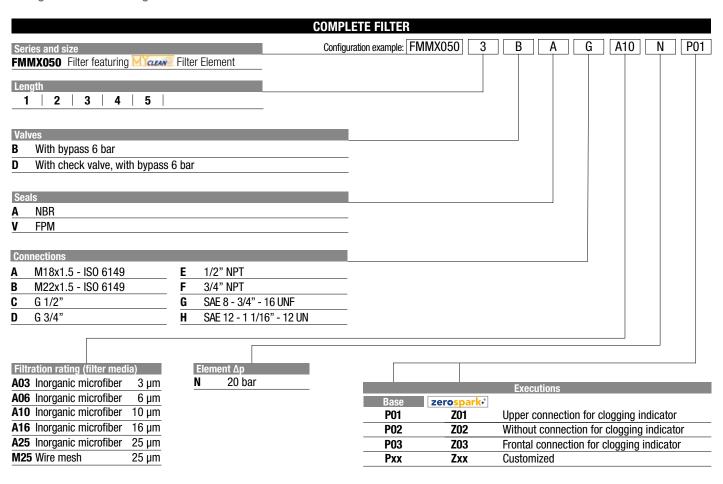


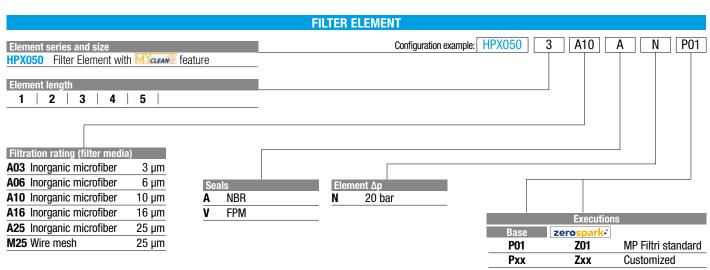
The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.





Designation & Ordering code

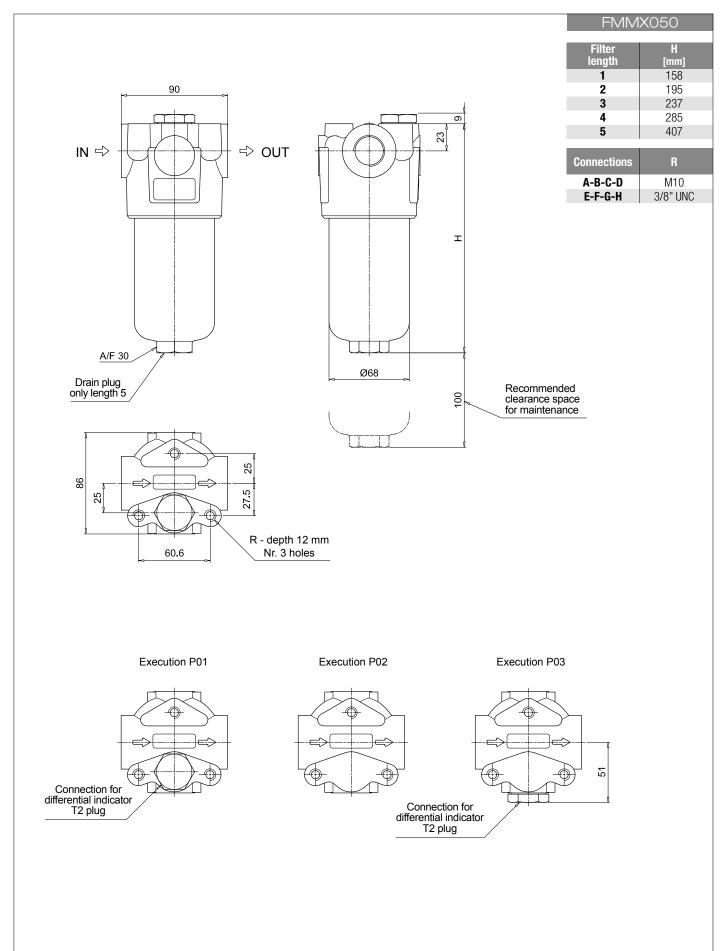




	See page 687				
DEA	Electrical differential indicator	Electrical differential indicator			
DEM	Electrical differential indicator		DVA	Visual differential indicator	
DLA	Electrical / visual differential indicator		DVM	Visual differential indicator	
DLE	Electrical / visual differential indicator	_			
		PLUGS			See page 706
T2	Differential indicator plug	_			
		_			

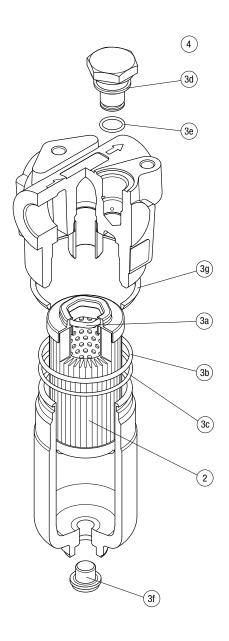
446

Dimensions



Order number for spare parts

FMMX 050



Item:	Q.ty: 1 pc.	Q.ty: 1 pc. (3a ÷ 3g)		Q.ty: 1 pc.		
Filter series	Filter element	Seal Kit co	de number FPM	Indicator connection plug NBR FPM		
FMMX 050	See order table	02050864	02050865	T2H	T2V	