



FZP series

Maximum working pressure up to 42 Mpa (420 bar) - Flow rate up to 160 l/min



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



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Description

Technical data

Filters for potentially explosive atmosphere

Maximum working pressure up to 42 Mpa (420 bar) Flow rate up to 160 I/min

FZP 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 lines of the system through the hydraulic fittings.

Available features:

- 1 1/4" female threaded connections, for a maximum flow rate of 160 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 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 fluids
- 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
- Optional FPM series V
- Optional MFQ series F

Bypass valve

Opening pressure 6 bar ±10%

Note

FZP 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: Polyamide
- 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

Temperature

Seals	Ambient Temperature	Max fluid Temperature	Temperature Class	Max surface temperature
NBR	-15 °C ÷ +80 °C	+80 °C	T6	T85 °C
	-15 °C ÷ +80 °C	+80 °C	T6	T85 °C
FPM / MFQ	-15 °C ÷ +95 °C	+95 °C	T5	T100 °C
	-15 °C ÷ +110 °C	+110 °C	T4	T115 °C
FPM / MFQ	-15 °C ÷ +95 °C	+95 °C	T5	T100 °C

Filter with:

NBR seal in configuration **zerospark**





II 3G Ex h IIC T6 Gc X II 3D Ex h IIIC T85°C Dc X FPM / MFQ seal in configuration **Zerospar***





II 3G Ex h IIC T6... T4 Gc X II 3D Ex h IIIC T85°C...T115°C Dc X

Weights [kg] and volumes [dm³]

Filter series	Weights [kg]							Volumes [di	n³]	
	Length					Length				
FZP 039		-	4.5	5.1	5.6		-	0.19	0.26	0.34
FZP 136		8.3	10.2	11.5	-		0.45	0.78	1.00	-

Flow rates [I/min]

			Filter elem	ent design	- R Series			Filter eleme	ent design -	S-U Series	
Filter series	Length	A03	A06	A10	A16	A25	A03	A06	A10	A16	A25
	2	19	25	43	50	59	19	23	41	45	55
FZP 039	3	34	37	53	62	74	31	34	48	52	66
	4	42	46	63	72	81	38	41	55	71	78
	1	63	67	102	108	136	47	53	87	89	127
FZP 136	2	95	100	122	123	159	81	95	113	115	138
	3	122	124	148	150	160	106	116	135	141	151

Maximum flow rate for a complete stainless steel high 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.

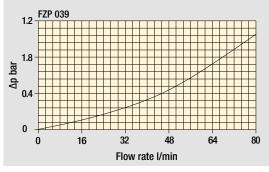
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

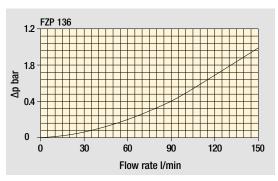
Hydraulic symbols

Filter series	Style S	Style B	Style T	Style D	Style V	Style Z
FZP 039	•	•	•	•	•	•
FZP 136	•	•	-	-	•	-
	OUT TO THE PROPERTY OF THE PRO	OUT TO THE PROPERTY OF THE PRO	OUT TO THE PROPERTY OF THE PRO	OUT T	OUT TO THE PART OF	OUT TO THE PART OF

Pressure drop

Filter housings Δp pressure drop

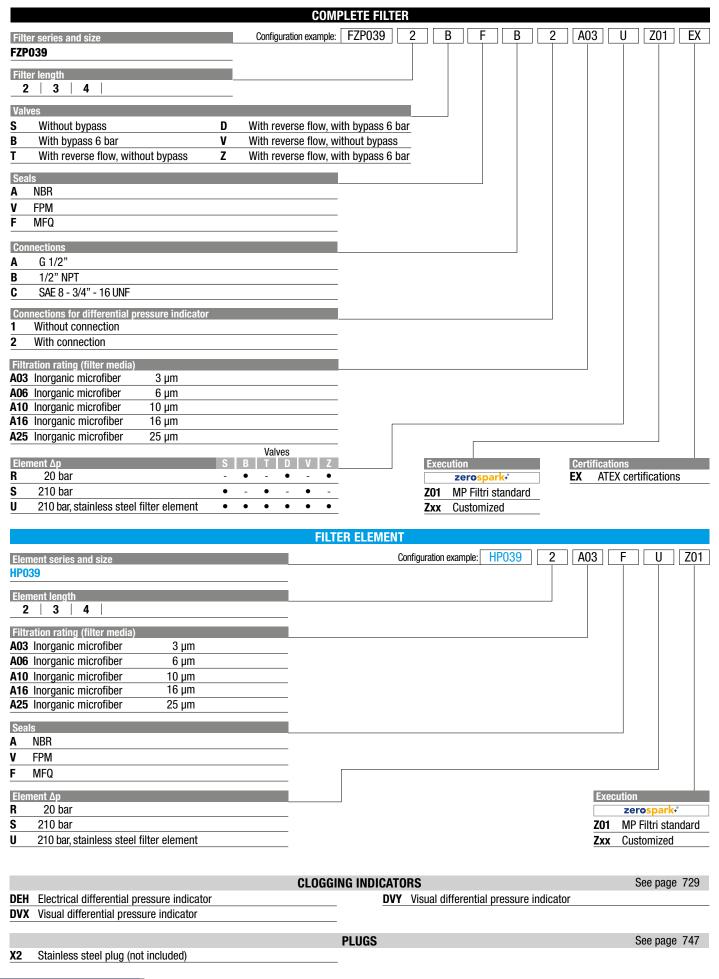




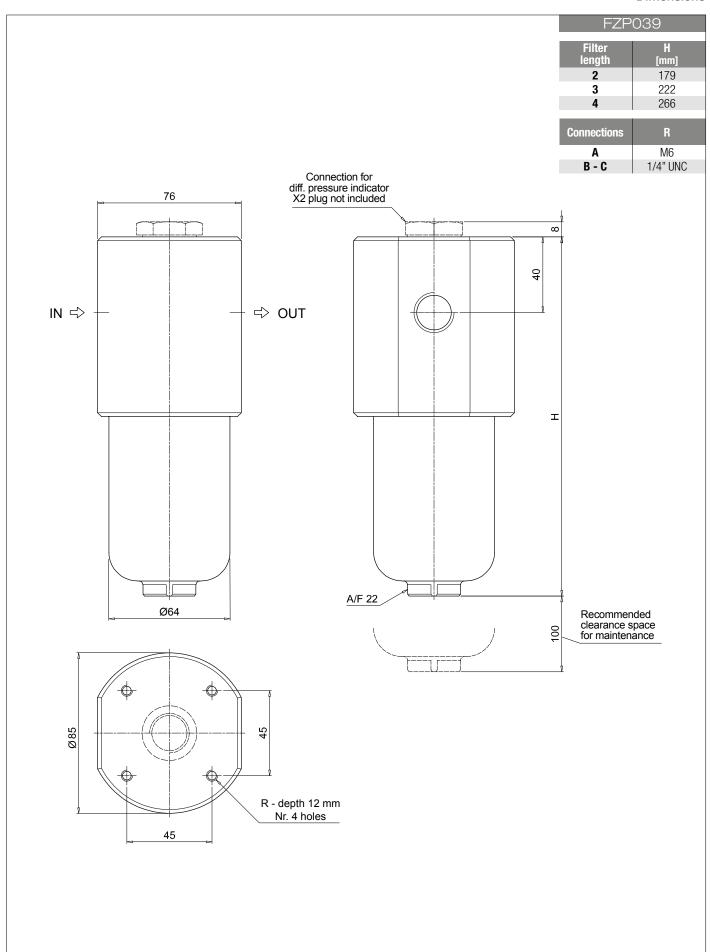
The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



Designation & Ordering code

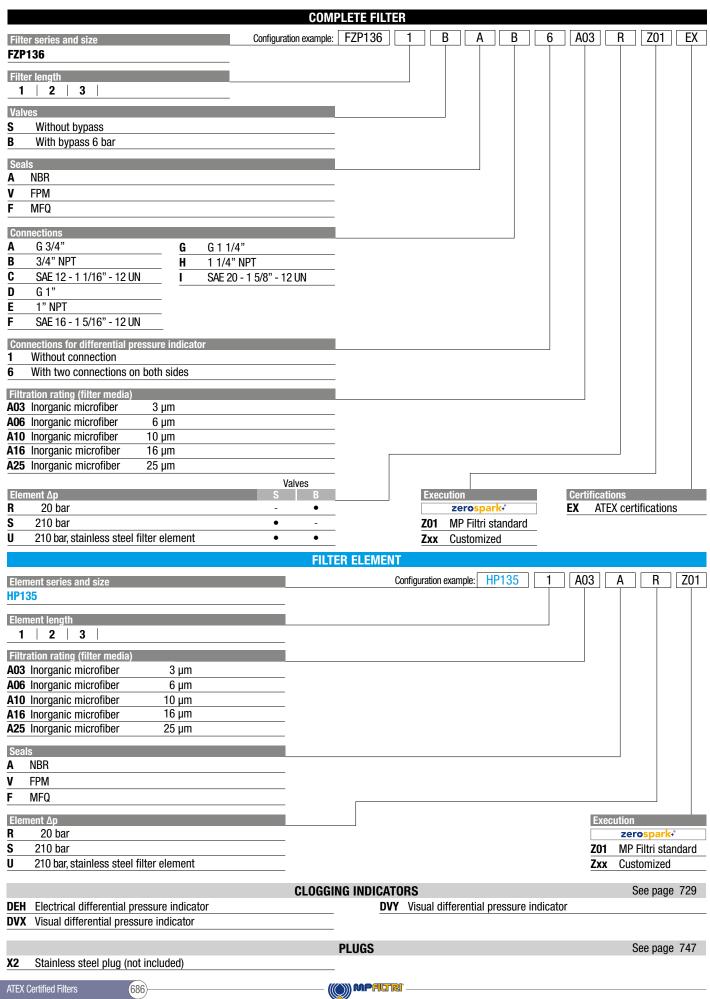


Dimensions

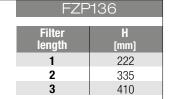




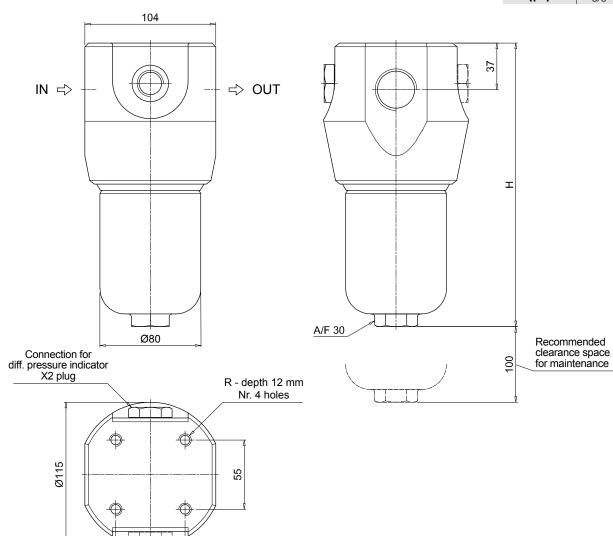
Designation & Ordering code



Dimensions



Connections	R
Α	M10
B - C	3/8" UNC
D	M10
E-F	3/8" UNC
G	M10
H - I	3/8" UNC



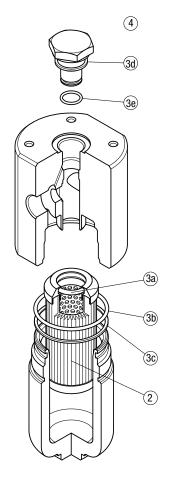
The position of the X2 plug is reversible

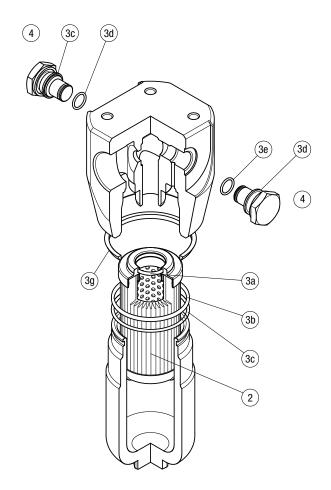
55

Connection for diff. pressure indicator X2 plug not included

Order number for spare parts



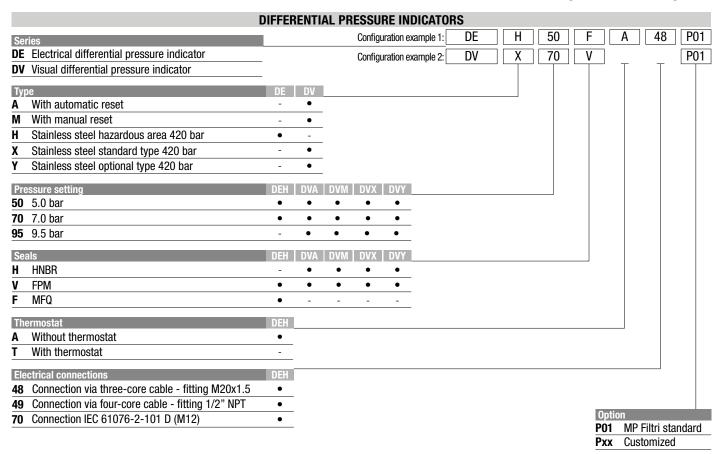




	Q.ty: 1 pc.	Q.ty:	1 pc.	Q.ty:	1 pc.	
Item:	2		3 (3a ÷ 3g)	4	1	
Filter	Filter	Seal Kit co	de number	Indicator cor	nection plug	
series	element	NBR	FPM	NBR	FPM	
FZP 039	See order	02050299	02050300	X2H	X2V	
FZP 136	table	02050636	02050637	7,611	/_ V	

FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

Designation & Ordering code



					PLUGS
Se	ries				Configuration example X2 H
T2	Plug				
X2	Stainless Steel plug 420 bar				
Х3	Stainless Steel plug 700 bar (only for FZH)				
Se	als	T2	X2	Х3	
Н	HNBR	•	•	•	_
V	FPM	•	•	•	_
F	MFQ	-	•	•	