





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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GENERAL INFORMATION

Description

Technical data

Filters for potentially explosive atmosphere In-line Maximum working pressure up to 42 Mpa (420 bar) Flow rate up to 160 l/min	Filter housing - Head: AISI 316I - Housing: AISI 3 - Bypass valve: A	- 16L	Δp element typ Fluid flow through Microfibre filter ele Element series - End cap: Poly - Core tube: Tir	the filter element ements - series R: "R": /amide	
FZP is a range of stainless steel high pressure filter for protection of sensitive components in high pressure hydraulic systems placed in difficult environmental	Seals - Standard NBR - Optional FPM s	eries V	- External/Inter		mesh Epox painted fibre/Syntetic
conditions. They are directly connected to the lines of the system through the hydraulic fittings.	- Optional MFQ s	eries F	Microfibre filter ele Element series - End cap: Tinr	"S":	210 bar.
Available features: - 1 1/4" female threaded connections, for a maximum flow rate of 160 l/min	Bypass valve Opening pressure	e 6 bar ±10%	 Core tube: Tir External supp 		
 Fine filtration rating, to get a good cleanliness level into the system Bypass valve, to relieve excessive pressure drop across 	Note FZP filters are pro for vertical moun		- Media/Suppo Stainless Steel Mid	rt/Pre-filter: Micro	-
the filter media - Low collapse filter element with external support "R", for filter element protection against the back			series U: 210 bar. Element series - End cap: Stai	nless steel	
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			- Internal supp	aniess steel port: Stainless steel ort: Stainless steel vrt/Pre-filter: Micro	
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 	Temperature Seals	_ Ambient	_ Max fluid	Temperature Class	Max surface
Common applications: - Off-shore equipment	NBR	Temperature -15 °C ÷ +80 °C	Temperature +80 °C	Class T6	temperature T85 °C
 Water filtration systems Systems with strong or corrosive environmental conditions Systems with corrosive fluids 	FPM / MFQ	-15 °C ÷ +80 °C -15 °C ÷ +95 °C	+80 °C +95 °C	T6 T5	T85 °C T100 °C

- Systems with corrosive fluids

Filter with:

NBR seal in configuration **zerospark***



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



+110 °C

-15 °C ÷ +110 °C

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

T4

T100 °C T115 °C

Weights [kg] and volumes [dm³]

Filter series			Weights	s [kg]				Volumes [dr	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	-



GENERAL INFORMATION FZP

FILTER ASSEMBLY SIZING

Flow rates [l/min]

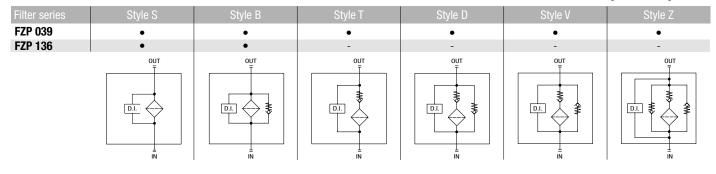
		Filter element design - R Series				Filter element design - S-U Series					
Filter series	Length	A03	A06	A10	A16	A25	A03	A06	A10	A16	A25
	2	19	25	43	50	59	19	23	41	45	55
FZP 039	3	34	37	53	62	74	31	34	48	52	66
	4	42	46	63	72	81	38	41	55	71	78
	1	63	67	102	108	136	47	53	87	89	127
FZP 136	2	95	100	122	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.

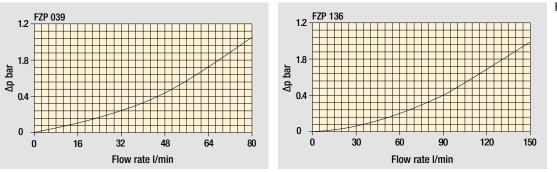
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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





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

-Zł

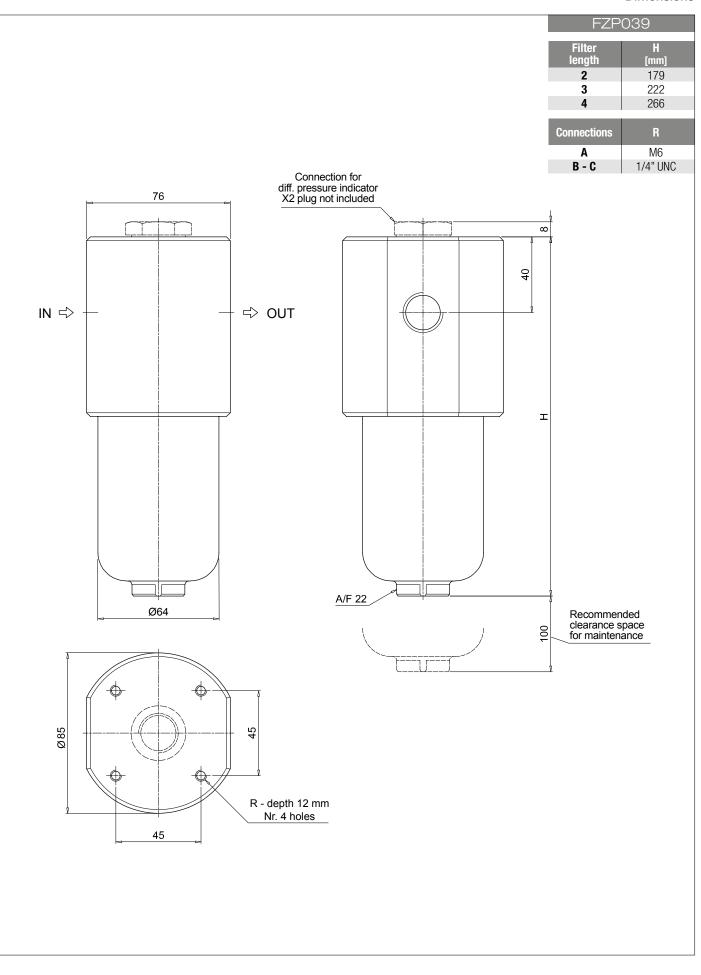
FZP039

Filter series and size	CONFIGURATION Example: FZP039	2 B F B	2 A03 U Z01 EX
FZP039			
Filter length 2 3 4			
Valves S Without bypass D	With reverse flow, with bypass 6 bar		
B With bypass 6 bar V	With reverse flow, without bypass		
T With reverse flow, without bypass Z Seals	With reverse flow, with bypass 6 bar	-	
A NBR			
V FPM F MFQ			
Connections			
A G 1/2" B 1/2" NPT			
C SAE 8 - 3/4" - 16 UNF			
Connections for differential pressure indicator Without connection			
2 With connection Filtration rating (filter media)			
A03 Inorganic microfiber 3 µm			
A06 Inorganic microfiber 6 μm A10 Inorganic microfiber 10 μm			
A16Inorganic microfiber16 μmA25Inorganic microfiber25 μm			
Element Δp S	Valves B T D V Z	Execution	Certifications
R 20 bar - S 210 bar •	• - • - • - • - • -	zerospark≁ Z01 MP Filtri standard	EX ATEX certifications
U 210 bar, stainless steel filter element •	• • • • •	Zxx Customized	
	FILTER ELEMENT		
Element series and size HP039	Cor	nfiguration example: HP039	2 A03 F U Z01
Element length 2 3 4			
Filtration rating (filter media)			
A03Inorganic microfiber3 μmA06Inorganic microfiber6 μm			
A10Inorganic microfiber10 μmA16Inorganic microfiber16 μm			
A25 Inorganic microfiber 25 µm			
Seals A NBR			
V FPM F MFQ			
Element ∆p			Execution
Element Δp R 20 bar			zerospark*
Element Δp			zerospark+
Element Δp R 20 bar S 210 bar			zerospark*Z01MP Filtri standardZxxCustomized
Element Δp R 20 bar S 210 bar U 210 bar, stainless steel filter element	CLOGGING INDICATO	RS Visual differential pressure indic	Z01 MP Filtri standard Zxx Customized See page 719
Element Δp R 20 bar S 210 bar U 210 bar, stainless steel filter element	DVY		Z01 MP Filtri standard Zxx Customized See page 719 cator
Element Δp R 20 bar S 210 bar U 210 bar, stainless steel filter element			Z01 MP Filtri standard Zxx Customized See page 719
Element Δp R 20 bar S 210 bar U 210 bar, stainless steel filter element DEH Electrical differential pressure indicator DVX Visual differential pressure indicator	DVY		Z01 MP Filtri standard Zxx Customized See page 719 cator

IN-LINE

FZP039 FZP

Dimensions



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Designation & Ordering code

-21-

⊃ FZP136

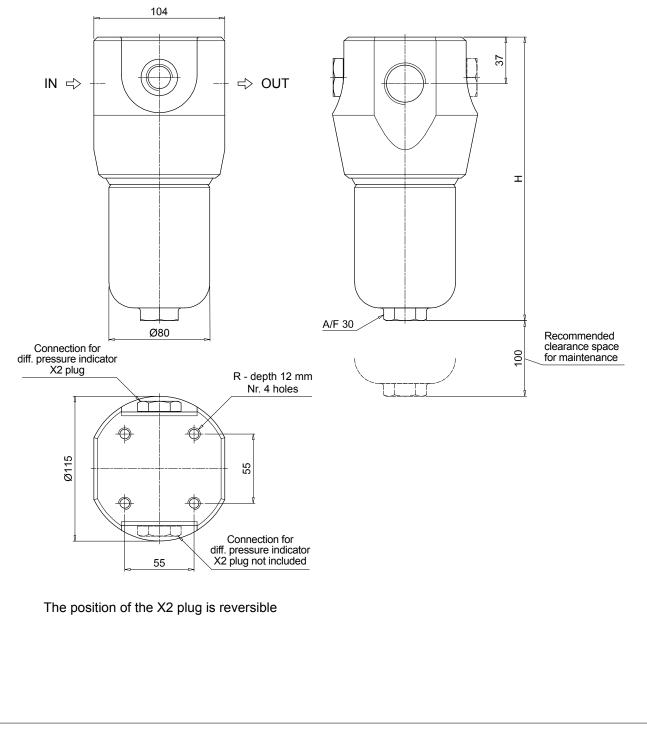
	COMPL	ETE FILTER				
Filter series and size FZP136	Configuration example:	FZP136 1	B A	B (6 A03	R Z01 EX
Filter length 1 2 3						
Valves						
S Without bypass B With bypass 6 bar						
Seals						
A NBR V FPM						
F MFQ						
Connections						
A G 3/4" G G 1 1/-	4"					
$\frac{\mathbf{B}}{\mathbf{A}} = \frac{3/4"}{1} \text{ NPT} \qquad \qquad \mathbf{H} = \frac{1}{1} \frac{1}{4} \frac{1}{4$						
C SAE 12 - 1 1/16" - 12 UN I SAE 20 D G 1") - 1 5/8" - 12 UN					
E 1" NPT						
F SAE 16 - 1 5/16" - 12 UN						
Connections for differential pressure indicator 1 Without connection						
6 With two connections on both sides						
Filtration rating (filter media)						
A03 Inorganic microfiber 3 µm						
A06Inorganic microfiber6 μmA10Inorganic microfiber10 μm						
A16 Inorganic microfiber 16 µm						
A25 Inorganic microfiber 25 μm						
Element ∆p	Valves S B		Execution		Certificatio	ons
R 20 bar	- •		zerosp		EX ATE	K certifications
S 210 bar U 210 bar, stainless steel filter element	• - • •		Z01 MP Filtr Zxx Custom	i standard		
	EILTER			200		
Element series and size			uration example:	HP135	I A03	A R Z01
HP135			P			
Element length						
1 2 3						
Filtration rating (filter media)						
A03Inorganic microfiber3 μmA06Inorganic microfiber6 μm						
A10 Inorganic microfiber 10 µm						
A16Inorganic microfiber16 μmA25Inorganic microfiber25 μm						
Seals A NBR						
V FPM						
F MFQ						
Element Ap					Exec	
R 20 bar S 210 bar					Z01	zerospark∗ MP Filtri standard
U 210 bar, stainless steel filter element					Zxx	Customized
		G INDICATORS				See page 719
DEH Electrical differential pressure indicator			ual differential	pressure indic	ator	000 page 110
DVX Visual differential pressure indicator						
	P	LUGS				See page 737
X2 Stainless steel plug (not included)						
ATEX Certified Filters 676		MPFILTRI —				

IN-LINE

FZP136 FZP

Dimensions

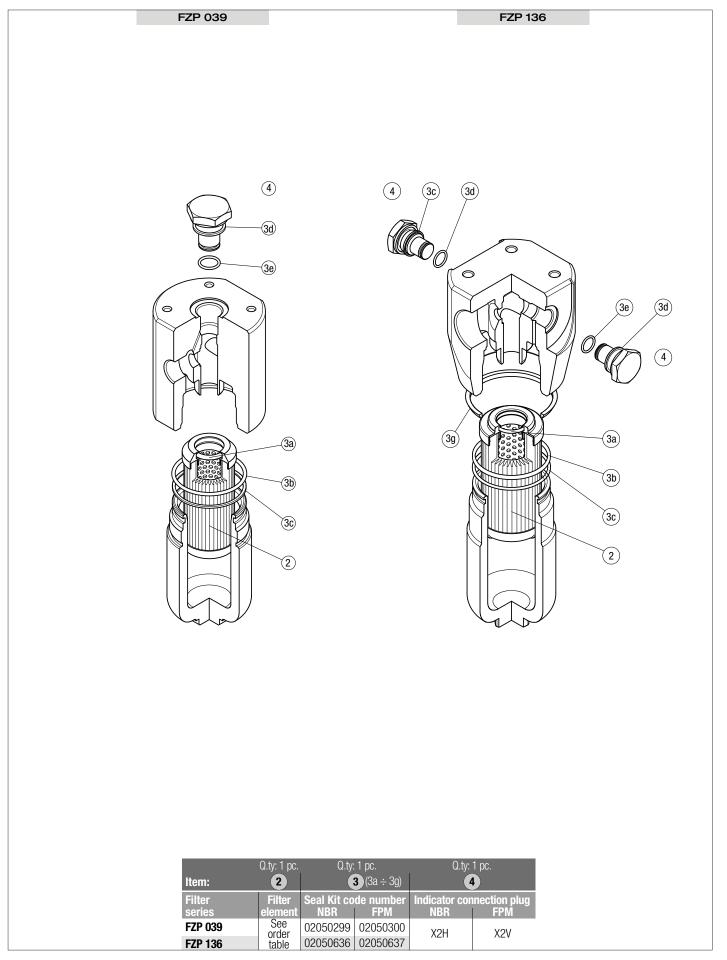
FZP136					
Filter length	H [mm]				
1 2 3	222 335				
Connections	410 R				
A B - C	M10 3/8" UNC				
D D E-F	M10 3/8" UNC				
G H - I	M10 3/8" UNC				





FZP spare parts

Order number for spare parts



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FZF