





Maximum working pressure up to 100 Mpa (1000 bar) - Flow rate up to 10 I/min







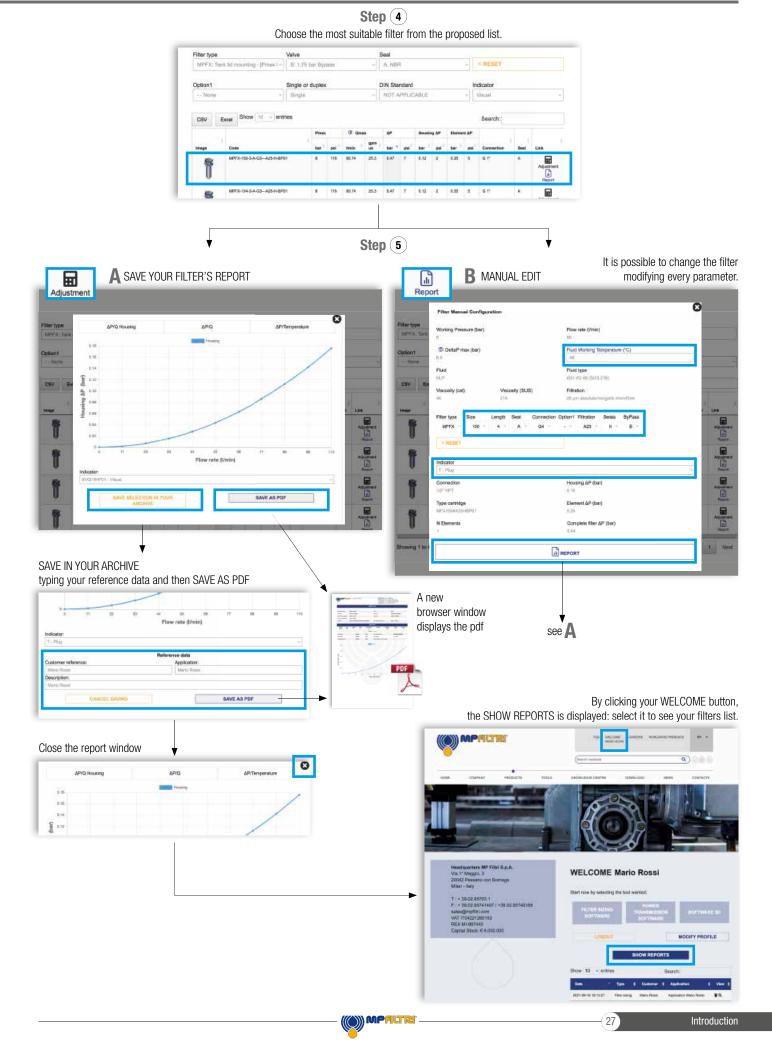
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# TYPICAL FILTER SIZING Selection Software





# FZX general information

### Description

## Technical data

#### Filters for potentially explosive atmosphere

In-line

Maximum working pressure up to 100 Mpa (1000 bar) Flow rate up to 10 l/min

FZX 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:** 

- 1/2" female threaded connections, for a maximum flow rate of 10 I/min
- Fine filtration rating, to get a good cleanliness level into the system
- High collapse filter element "H", for use with filters not provided with 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 (-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** FZX filters are provided for vertical mounting

#### ∆p element type

Fluid flow through the filter element from OUT to IN Microfibre filter elements - series H: 210 bar.

#### Element series "H":

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

Filter with:

### NBR seal in configuration **zerospark**+



II 3G Ex h IIC T6 Gc X II 3D Ex h IIIC T85°C Dc X  $T_{amb}$ : -15°C  $\div$  +80°C,  $T_{max fluid}$  +80°C



FPM / MFQ seal in configuration **zerospark**+\*

II 3G Ex h IIC T6... T4 Gc X II 3D Ex h IIIC T85°C...T115°C Dc X T<sub>amb</sub> : -15°C ÷ +110°C, T<sub>max fluid</sub> +110°C

## Weights [kg] and volumes [dm<sup>3</sup>]

Filter series			Weights [kg]			Volumes [dm <sup>3</sup> ]						
	Length						Length					
FZX 011		-	-	6.5	-			-	-	0.15	-	



# GENERAL INFORMATION FZX

## FILTER ASSEMBLY SIZING

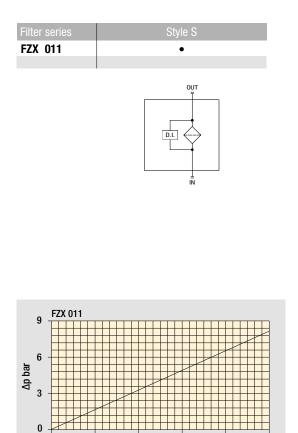
Flow rates [I/min]

		Filter element design - H-U Series					
Filter series	Length	A03 A06	A10 A1	l6 A25			
FZX 011	3	1.57 1.63	1.73 1.7	74 1.77			

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 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

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.



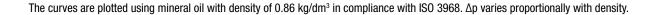
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Flow rate I/min

2

Hydraulic symbols

Pressure drop Filter housings ∆p pressure drop



10

8







# Designation & Ordering code

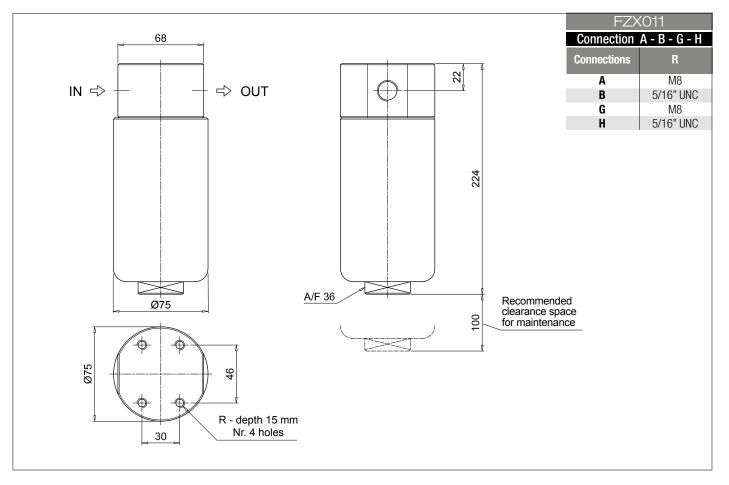
	COMI	PLETE FILTE	R									
Filter series and size	Configuration example:	FZX011	3	S	V	В	1	AO	3	JZ	201	EX
FZX011												
Filter length												
3												
Bypass valve												
S Without bypass												
Seals												
A NBR												
V FPM												
F MFQ												
Connections												
700 bar						-						
<b>A</b> G 1/4"												
B 1/4" NPT G G 1/2"												
H 1/2" NPT"												
Autoclave 1000 bar	_											
M 9/16" - 18 UNF												
L 3/4" - 14 NPS												
Connection for differential indicators												
1 Without connection												
Filtration rating (filter media)												
<b>A03</b> Inorganic microfiber 3 µm												
A06 Inorganic microfiber 6 µm												
A10 Inorganic microfiber 10 μm										-		
A16      Inorganic microfiber      16 μm        A25      Inorganic microfiber      25 μm												
Element ∆p H 210 bar			Exec					Cert EX	ification	ns certific	otions	,
H  210 bar    U  210 bar, stainless steel filter element			Z01	zero MP Fi				EA	ALEX	CELUIC	auons	)
			Zxx	Custo		<u>u</u>						

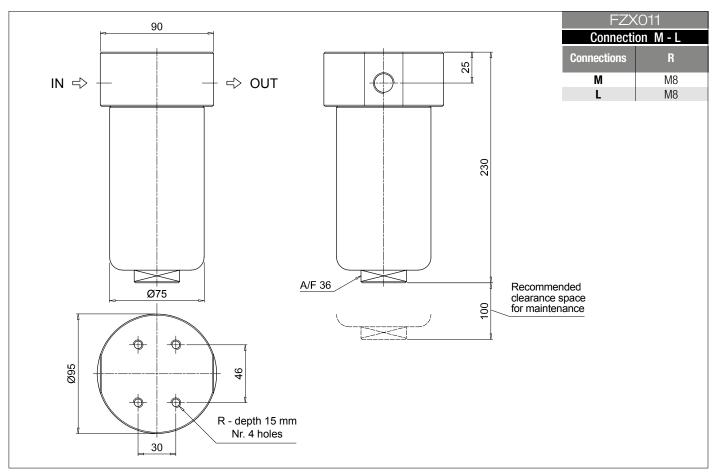


		FILTER ELEMENT
	ent series and size	Example: HP011 3 A03 V U Z01
HP01	1	
Elem	ent length	
3		
Filtra	tion rating (filter media)	
A03	Inorganic microfiber 3 µm	
A06	Inorganic microfiber 6 µm	-
A10	Inorganic microfiber 10 µm	-
A16	Inorganic microfiber 16 µm	-
A25	Inorganic microfiber 25 µm	- _
Seals		
Α	NBR	
V	FPM	
F	MFQ	-
Flore	out An	
H	ent ∆p 210 bar	
		-
U	210 bar, stainless steel filter element	Execution
		zerospark+
		Z01 MP Filtri standard
		Zxx Customized

FZX011 FZX

Dimensions





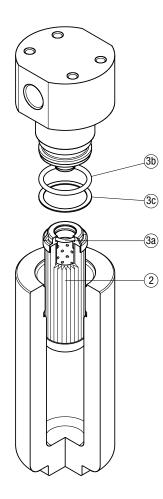


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# Order number for spare parts

FZX 011



Item:	Q.ty: 1 pc.	Q.ty: 1 pc. 3 (3a ÷ 3c)					
Filter series	Filter element	Seal Kit co NBR	de number FPM				
FZX 011	See order table	02050643	02050644				

