



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



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



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# FZX general information

### Description

### Technical data

Stainless steel high pressure filters In-line Maximum working pressure up to 100 Mpa (1000 bar) Flow rate up to 10 l/min	<b>Filter housing materials</b> - Head: AISI 316L - Housing: AISI 316L - Bypass valve: AISI 316L
<ul> <li>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.</li> <li>They are directly connected to the lines of the system through the hydraulic fittings.</li> <li>Available features: <ul> <li>1/2" female threaded connections, for a maximum flow rate of 10 l/min</li> <li>Fine filtration rating, to get a good cleanliness level into</li> </ul> </li> </ul>	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%
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	<b>Temperature</b> From -50 °C to +120 °C
Common applications: - Off-shore equipment - Water filtration systems - Systems with strong or corrosive environmental conditions - Systems with corrosive fluids	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
- Core tube: Stainless steel
- External support: Stainless steel
- Internal support: Stainless steel
- Media/Support/Pre-filter: Microfibre/Syntetic

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

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

# GENERAL INFORMATION FZX

## FILTER ASSEMBLY SIZING

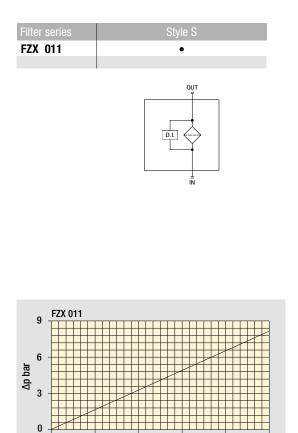
Flow rates [l/min]

		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

The curves are plotted using mineral oil with density of 0.86 kg/dm<sup>3</sup> in compliance with ISO 3968. Δp varies proportionally with density.

10

8





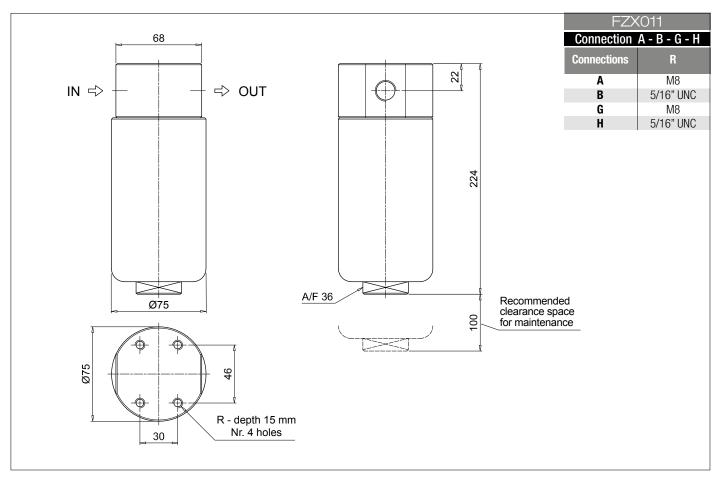
# Designation & Ordering code

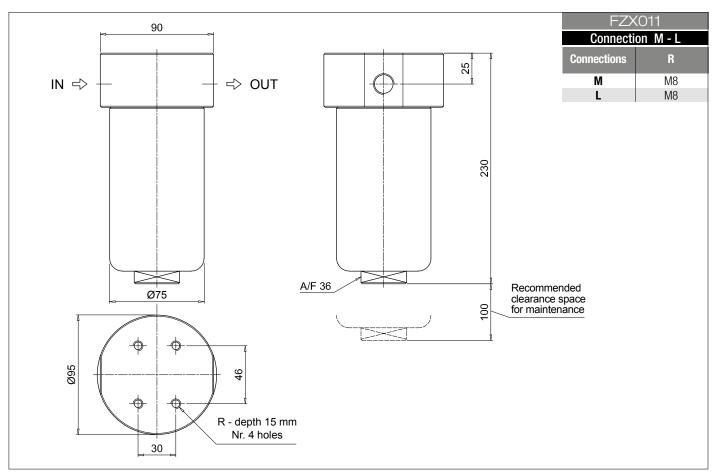
		COMPLETE	FILTER								
Filte	r series and size	Configuration example:	FZX011	3	S	V	В	1	A03	U	P01
FZX											
Filte	r length										
3											
Bypa	iss valve										
S	Without bypass										
Seal											
A	NBR										
V	FPM										
F	MFQ										
Conr	nections										
	700 bar										
A	G 1/4"										
B G	1/4" NPT G 1/2"										
H	1/2" NPT"										
	Autoclave 1000 bar										
М	9/16" - 18 UNF										
L	3/4" - 14 NPS										
Conr	nection for differential pressure indicators										
1	Without connection										
Filtre	ation 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										
	ent Δp								ecution		
H	210 bar							P01		Filtri sta	ndard
U	210 bar, stainless steel filter element							Pxx	Cust	omized	

	FILTER ELEMENT
Element series and size HP011	Example: HP011 3 A03 V U P01
Element length 3	
Filtration 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	
A NBR V FPM	
F MFQ	
Element ∆p	
H     210 bar       U     210 bar, stainless steel filter element	Execution P01 MP Filtri standard
	Pxx Customized

FZX011 FZX

Dimensions



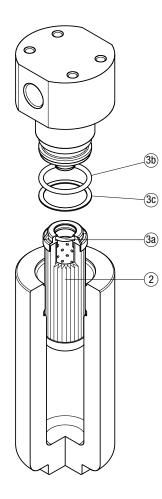






## Order number for spare parts

FZX 011



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





