



FZX series

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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Description

Technical data

Filters for potentially explosive atmosphere

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

- Standard NBR series A
- Optional FPM series V
- Optional MFQ series F

Bypass valve

Opening pressure 6 bar ±10%

Note

FZX filters are provided for vertical mounting

Δp 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

Temperature

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

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 **Zerospark**





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]			[kg] Volumes [dm³]								
	Length						Length					
FZX 011		-	-	6.5	-			-	-	0.15	-	





FILTER ASSEMBLY SIZING Flow rates [I/min]

		Filter element design - H-U Series				
Filter series	Length	h A03 A06 A10 A16 A25				
FZX 011	3	1.57 1.63 1.73 1.74 1.77				

Maximum flow rate for a complete stainless steel high pressure filter with a pressure drop $\Delta p = 1.5$ bar.

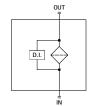
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³.

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.

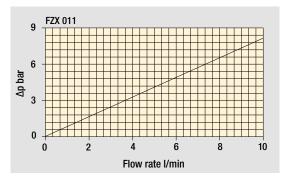
Hydraulic symbols

Filter series	Style S
FZX 011	•



Pressure drop

Filter housings Δp pressure drop

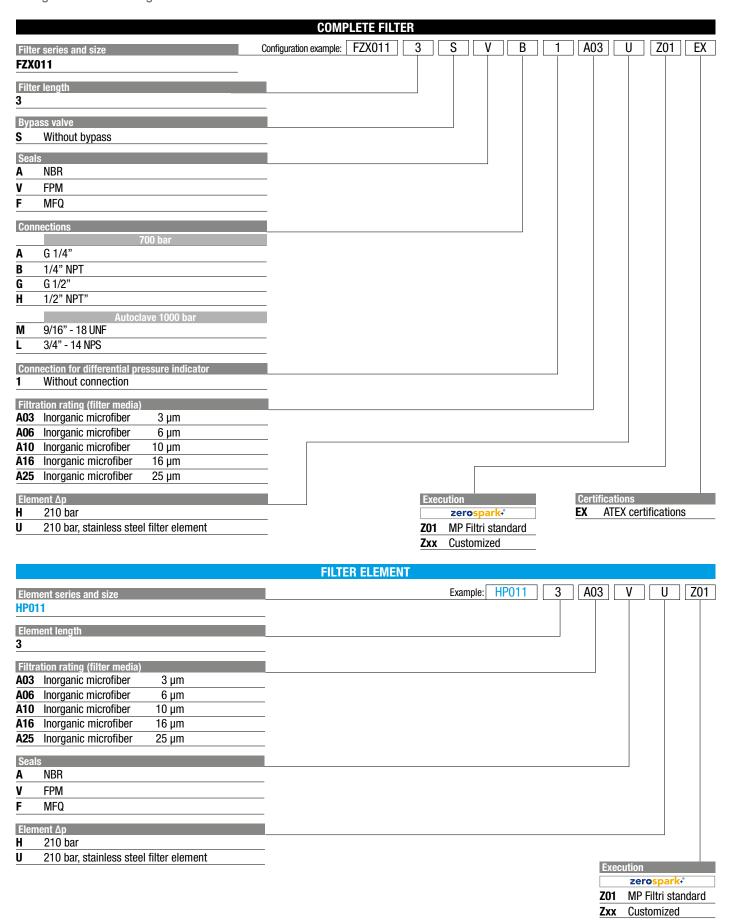


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. ∆p varies proportionally with density.

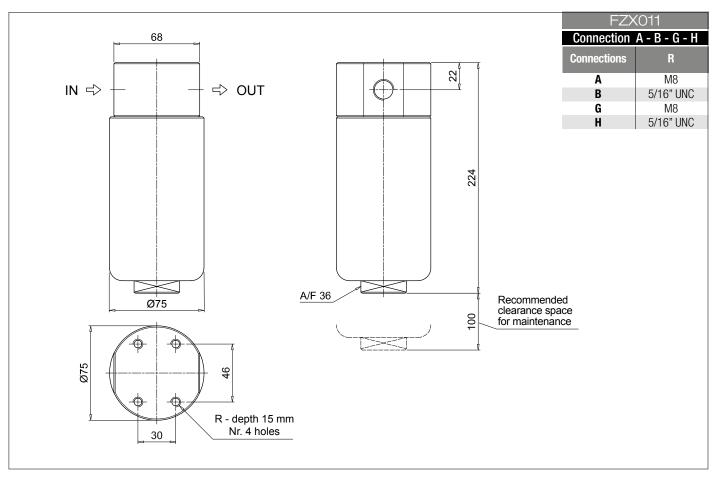


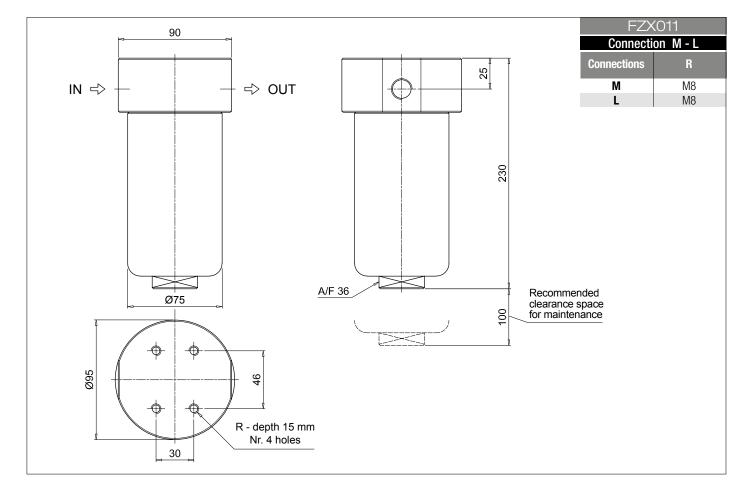


Designation & Ordering code



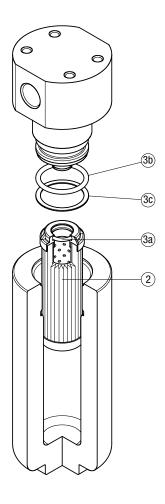
Dimensions





Order number for spare parts





	Q.ty: 1 pc.	Q.ty:	Q.ty: 1 pc.		
Item:	2	3 (3a ÷ 3c)			
Filter series	Filter element	Seal Kit code number NBR FPM			
FZX 011	See order table	02050643	02050644		



