





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







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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 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

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":
- 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

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_{amb} : -15°C ÷ +110°C, T_{max fluid} +110°C

Weights [kg] and volumes [dm³]

| Filter series | Weights [kg] | | | Volumes [dm ³] | | | | | | | | |
|---------------|--------------|---|---|----------------------------|---|--|--------|---|---|------|---|--|
| | Length | | | | | | Length | | | | | |
| FZX 011 | | - | - | 6.5 | - | | | - | - | 0.15 | - | |
| | | | | | | | | | | | | |



GENERAL INFORMATION FZX

FILTER ASSEMBLY SIZING

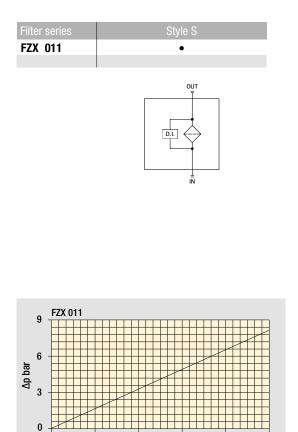
Flow rates [l/min]

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



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Flow rate I/min

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Hydraulic symbols

Pressure drop Filter housings ∆p 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.

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Designation & Ordering code

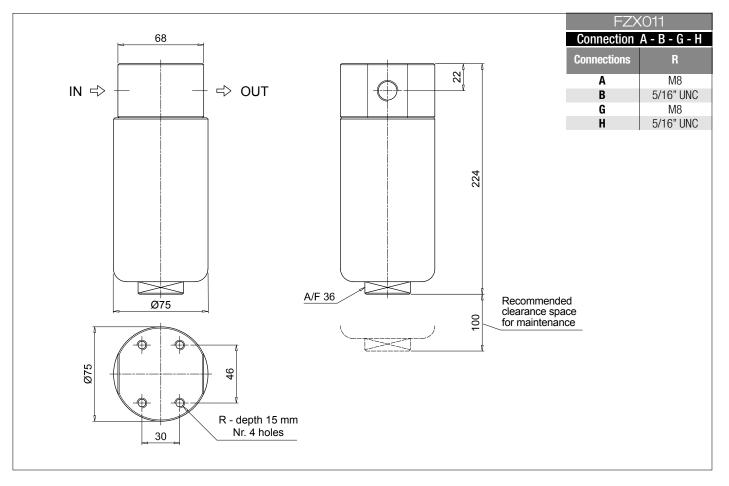
| | COMI | PLETE FILTER | | | | | | | | | | | |
|------------------------------------------------------------------------------------------|------------------------|--------------|--------|-------------------------------|---|---|----------|---|--------------|---------|-----------------|--------|----|
| Filter series and size | Configuration example: | FZX011 | 3 | S | V | E | 3 | 1 | A03 | 3 [| JZ | .01 | EX |
| FZX011 | | | | | | | | | | | | | |
| Filter length | | | | | | | | | | | | | |
| 3 | | | _ | | | | | | | | | | |
| Bypass valve | | | | | | | | | | | | | |
| S Without bypass | | | | _ | | | | | | | | | |
| Seals | | | | | | | | | | | | | |
| A NBR | | | | | | | | | | | | | |
| V FPM | | | | | | | | | | | | | |
| F MFQ | | | | | | | | | | | | | |
| Connections | | | | | | | | | | | | | |
| 700 bar | | | | | | | | | | | | | |
| A 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) | | | | | | | | | | | | | |
| 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 | | | | Г | | | | | | | | | |
| | | | | | | | | | | | | | |
| Element Δp | | | Execut | | | | | | Certif EX | ication | is certifica | ationa | |
| H210 barU210 bar, stainless steel filter element | | | | <mark>zeros</mark> MP Filt | - | | 4 | | C۸ | AIEX | Cerunca | auons | • |
| | | | | Custon | | | <u>u</u> | | | | | | |

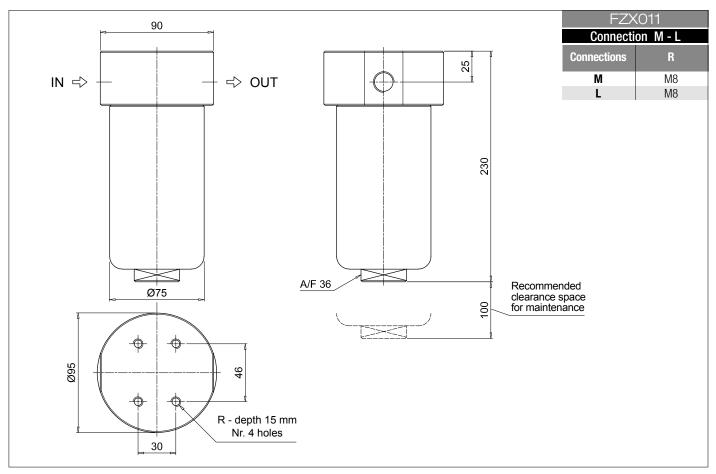


| Example: HP011 3 A03 V U Z01 |
|-------------------------------|
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| Execution |
| zerospark* |
| Z01 MP Filtri standard |
| Zxx Customized |
| |

FZX011 FZX

Dimensions





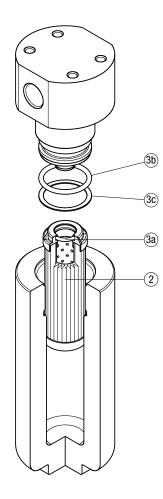


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Order number for spare parts

FZX 011



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

