



Maximum working pressure up to 32 Mpa (320 bar) - Flow rate up to 70 l/min



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



Please scan the QR codes to get updated electronic version of the related document.



FZB GENERAL INFORMATION

Description

Technical data

				a
Stainlage	etaal	high	pressure	tiltore
Julintos	31661	IIIYII	pressure	

Manifold

Maximum working pressure up to 32 Mpa (320 bar) Flow rate up to 70 l/min

FZB 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 side of the manifold, through the proper flanged interface.

Available features:

- Manifold connections up to $\emptyset16~\text{mm}$, for a maximum flow rate of 70 l/min
- Fine filtration rating, to get a good cleanliness level into the system
- Bypass valve, to relieve excessive pressure drop across the filter media
- Low collapse filter element with external support "R", for filter element protection against the back 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 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

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)
- Series F (-50 G t0 +120 G

Bypass valve Opening pressure 6 bar ±10%

Temperature From -50 °C to +120 °C

Note FZB filters are provided for vertical mounting

∆p element type

Fluid flow through the filter element from $\ensuremath{\mathsf{OUT}}$ to $\ensuremath{\mathsf{IN}}$

Microfibre filter elements - series R: 20 bar. Element series "R":

- End cap: Polyamide
- Core tube: Tinned steel
- External/Internal support: Wire mesh Epox painted
- Media/Support/Pre-filter: Microfibre/Syntetic

Microfibre filter elements - series S: 210 bar. Element series "S":

- 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 [dm³]

Filter series		Weights [kg]						Volumes [dm ³]					
	Length						Length						
FZB 039		-	4.6	5.2	5.7			-	0.19	0.26	0.34		

GENERAL INFORMATION FZE

FILTER ASSEMBLY SIZING

Flow rates [l/min]

		Filter element design - R Series Filter element design - S Series						Filter element design - U Ser								
Filter series	Length	A03	A06	A10	A16	A25	A03	A06	A10	A16	A25	A03	A06	A10	A16	A25
	2	18	23	39	44	52	18	22	37	40	48	18	22	37	40	48
FZB 039	3	31	33	47	54	65	28	31	43	46	84	28	31	43	46	84
	4	38	41	56	63	71	34	36	48	62	68	34	36	48	62	68

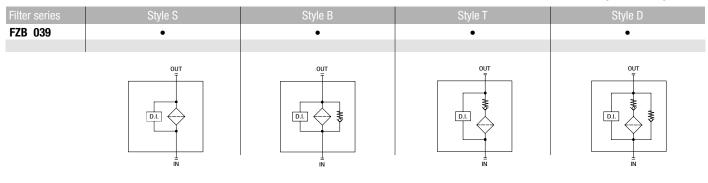
Maximum flow rate for a complete stainless steel high pressure filter with a pressure drop $\Delta p = 1.5$ bar.

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

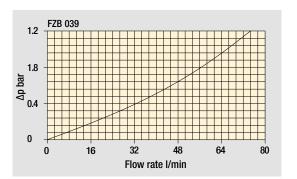
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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



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.

(()) MPFILTRI

FZB FZB039

Designation & Ordering code

	COMPLETE FIL	TER			
Series and size	Configuration example: F	ZB039 2 T	A	F 2	A06 S P01
FZB039					
Length					
2 3 4					
Valves					
S Without bypass					
B With bypass 6 bar					
T With check valve, without bypass					
D With check valve, with bypass 6 bar					
Seals					
A NBR					
V FPM					
F MFQ					
Connections					
F Manifold					
Connections for differential pressure indicators					
1 Without connection 2 With connection on the top					
Filtration rating (filter media)					
A03 Inorganic microfiber 3 µm					
A06 Inorganic microfiber 6 µm					
A10 Inorganic microfiber 10 µm					
A16 Inorganic microfiber 16 µm			Valves		
A25 Inorganic microfiber 25 µm	Element ∆p		S B T		Execution
	R 20 bar		- • -	• P	P01 MP Filtri standard
	S 210 bar		• - •	- P	Yxx Customized
	U 210 bar, stainless	steel filter element	• • •	•	

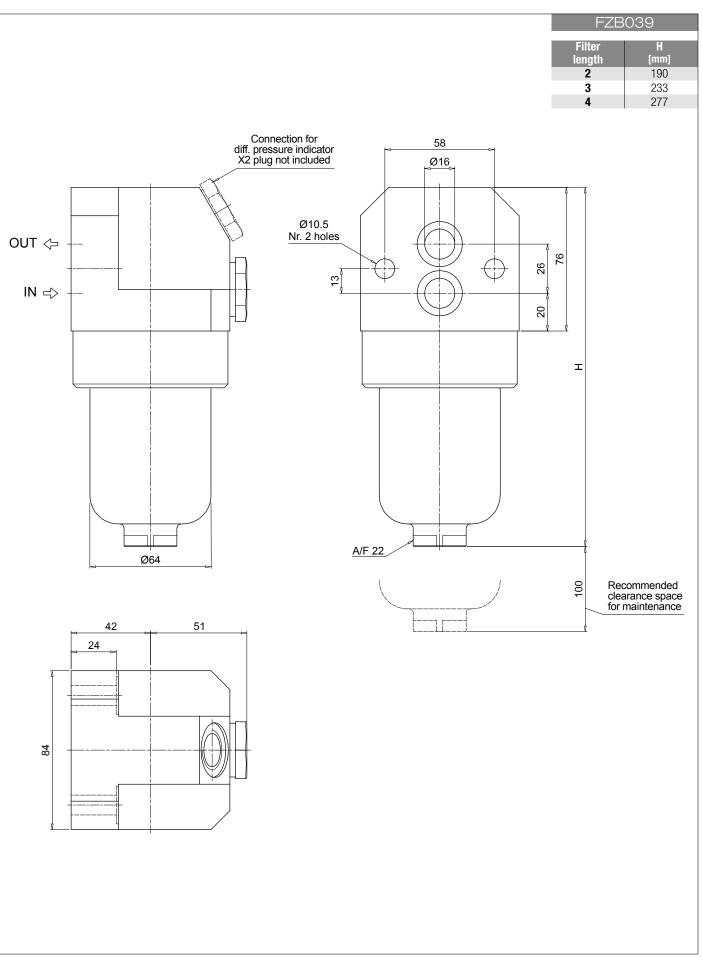
	FILTER ELE	MENT		
Element series and size		Configuration example: HP	039 2 A0	6 A S P01
HP039				
Element length				
Filtration rating (filter media)				
A03 Inorganic microfiber 3 µm				
A06 Inorganic microfiber 6 µm				
A10 Inorganic microfiber 10 µm				
A16 Inorganic microfiber 16 µm				
A25 Inorganic microfiber 25 µm				
	Seals	Element ∆p		Execution
	A NBR	R 20 bar		P01 MP Filtri standard
	V FPM	S 210 bar		Pxx Customized
	F MFQ	U 210 bar, stainless ste	eel filter element	

	CLOGGING INDICATORS								
DEX	Electrical differential pressure indicator		DVX Visual differential pressure indicator						
DLX	Electrical/visual differential pressure indicator		DVY Visual differential pressure indicator						
		PLUGS		See page 737					
X2	Stainless steel plug (not included)								



FZB039 HZE

Dimensions





FZB SPARE PARTS

Order number for spare parts

		30 30	4		
Q.ty: 1 pc. Item: 2 Filter Filter series FZB 039 C.ty: 1 pc. Elter See order table	0.ty: 1 pc. (3a ÷ 3n) Seal Kit code number NBR FPM 02050647 0205064	Indicator co NBR	/: 1 pc. annection plug FPM X2V	Q.ty: Bypass asse NBR 02001286	5





