

FZB series

Maximum working pressure up to 32 Mpa (320 bar) - Flow rate up to 75 l/min







Choose filter type (MPF, MPT, etc.) in function of Step (3) the max working pressure and the max flow rate





Step (5)

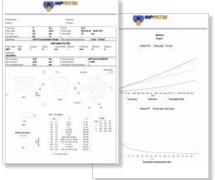
Insert all application data to calculate the filter size following the sequence:

- working pressure
- working flow rate
- working pressure drop
- working temperature
- fluid material and fluid type
- filtration media
- connection type



Push "CALCULATE" to have result; in case of any mistake, the system will advice which parameter is out of range to allow to modify/adjust the selection





Step (7) PDF Download PDF

Datasheet "Report.aspx" pushing the button "Drawing"

GENERAL INFORMATION

Description

Technical data

Stainless steel high pressure filters

Maximum working pressure up to 32 Mpa (320 bar) Flow rate up to 75 I/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 Ø16 mm, for a maximum flow rate of 75 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)

Bypass valve

Opening pressure 6 bar ±10%

Temperature

From -50 °C to +120 °C

Note

FZB filters are provided for vertical mounting

Δp element type

Fluid flow through the filter element from OUT to IN

Microfibre filter elements - series R: 20 bar.

Element series "R":

- End cap: Nylon
- 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	s [kg]			Volumes [dm³]				
	Length					Length				
FZB 039		-	4.6	5.2	5.7		-	0.19	0.26	0.34



FILTER ASSEMBLY SIZING Flow rates [I/min]

		Filter element design - R Series					Filter element design - S Series				Filter element design - U Series					
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.

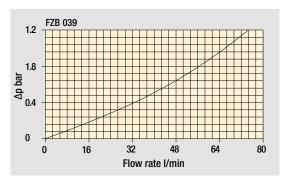
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

Filter series	Style S	Style B	Style T	Style D
FZB 039	•	•	•	•
	OUT T	OUT T	OUT T	OUT T
	D.I.	D.I.	D.I.	D.I.
	L L	<u> </u>	IN	

Pressure drop

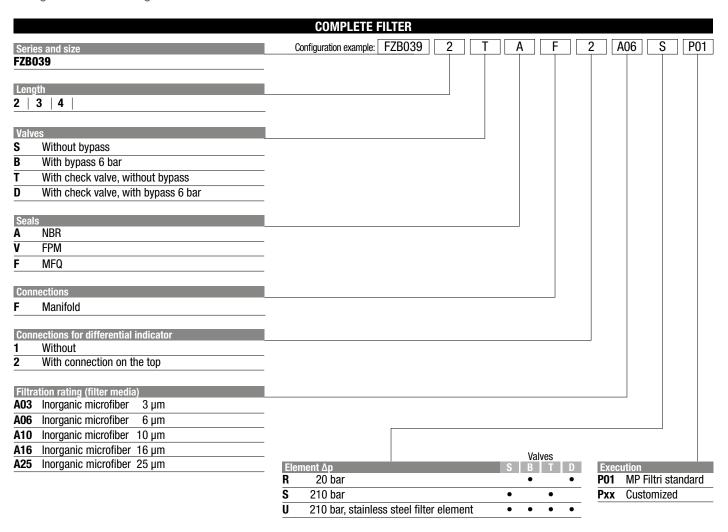
Filter housings Δp pressure drop

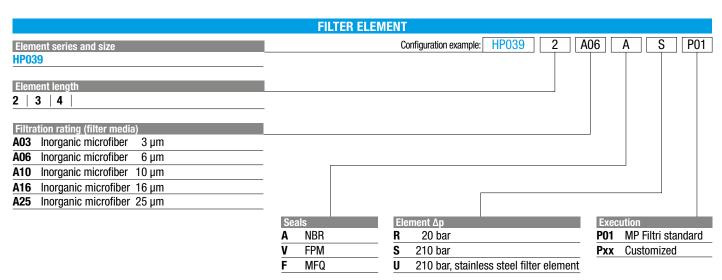


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



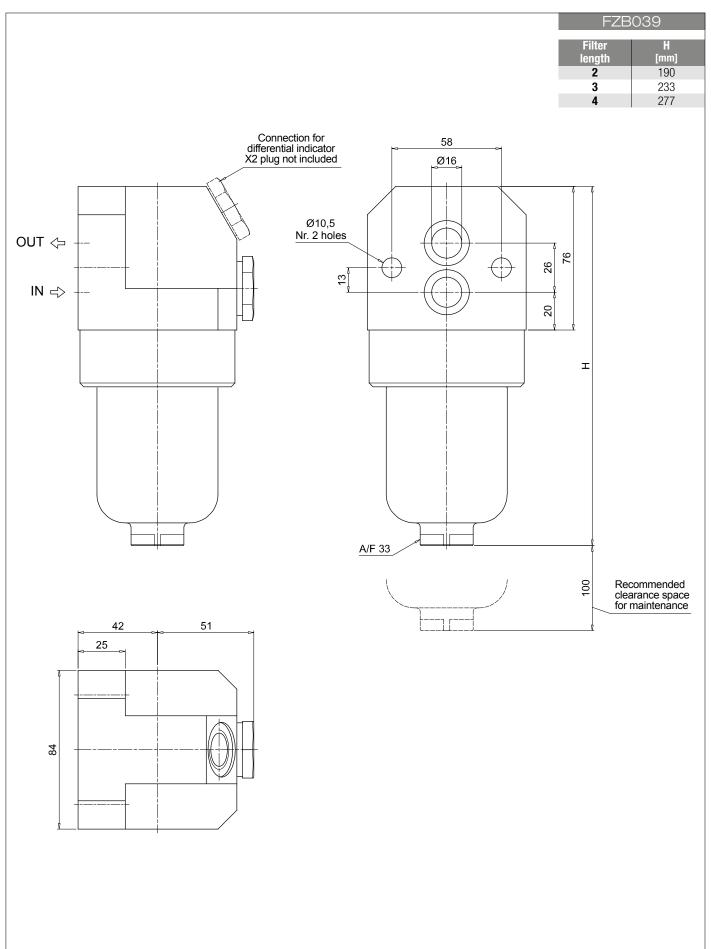
Designation & Ordering code





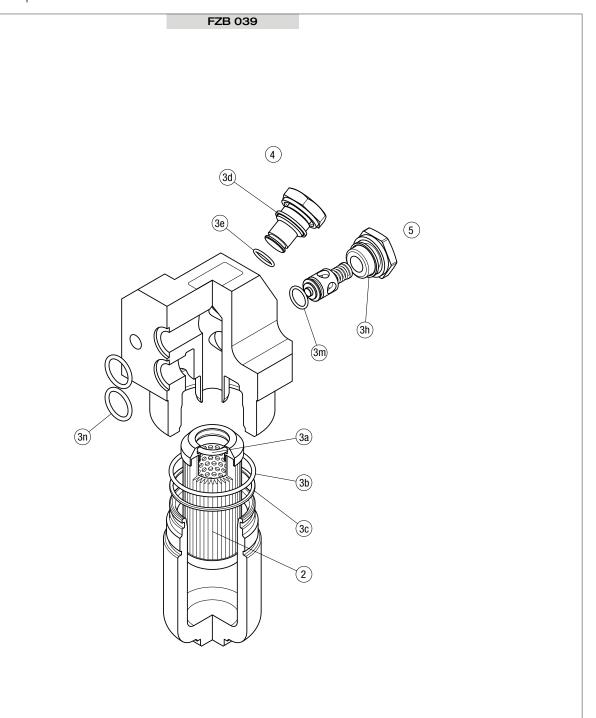
		ACCES	SORIES	
Diffe	rential indicators	page		page
DEH	Hazardous area electronic differential indicator	632	DVX Visual differential indicator	633
DEX	Electrical differential indicator	633	DVY Visual differential indicator	634
DLX	Electrical / visual differential indicator	633		
Addi	tional features	page		
X2	Plug	634		

Dimensions



FZB SPARE PARTS

Order number for spare parts



	Q.ty: 1 pc.	Q.ty: 1 pc.		Q.ty:	1 pc.	Q.ty: 1 pc.		
Item:	2		3a ÷ 3n)		4	5		
Filter series	Filter element	Seal Kit code number NBR FPM		Indicator connection plug NBR FPM		Bypass assembly / plug NBR FPM		
FZB 039	See order table	02050647	02050648	X2H	X2V	02001286	02001295	