

FZB series

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



GENERAL INFORMATION

Description

Technical data

Stainless steel high pressure filters

Maximum working pressure up to 32 Mpa (320 bar) Flow rate up to 70 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 70 I/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: 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 [dm³]					
	Length						Length					
FZB 039			4.6	5.2	5.7			-	0.19	0.26	0.34	



FILTER ASSEMBLY SIZING Flow rates [I/min]

		Filte	nt desig	eries	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.

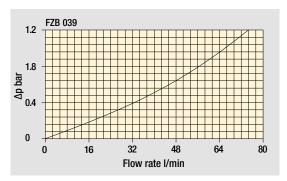
You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Hydraulic symbols

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OUT OUT TOUT TOUT TOUT TOUT TOUT TOUT T	оит Т

Pressure drop

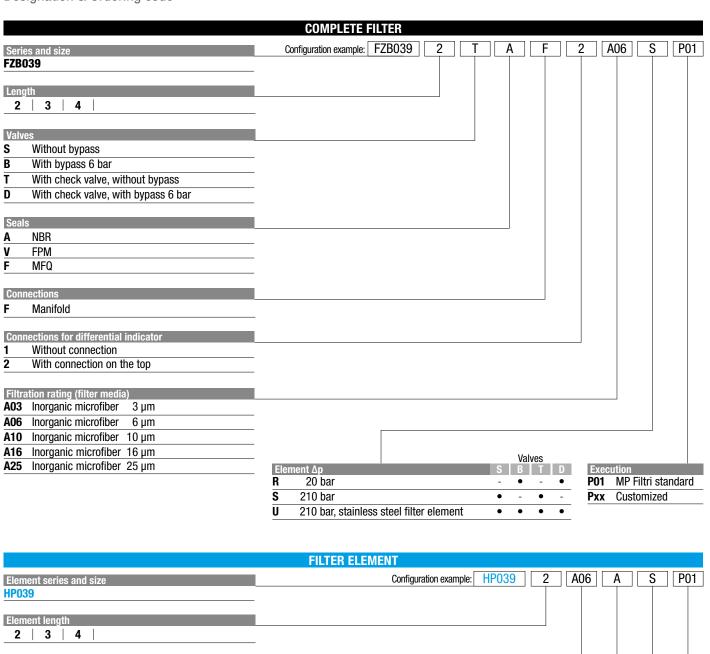
Filter housings Δp pressure drop

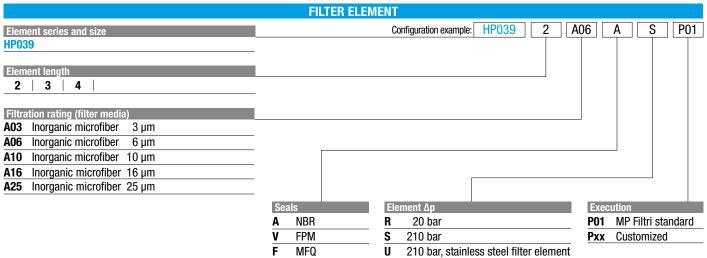


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



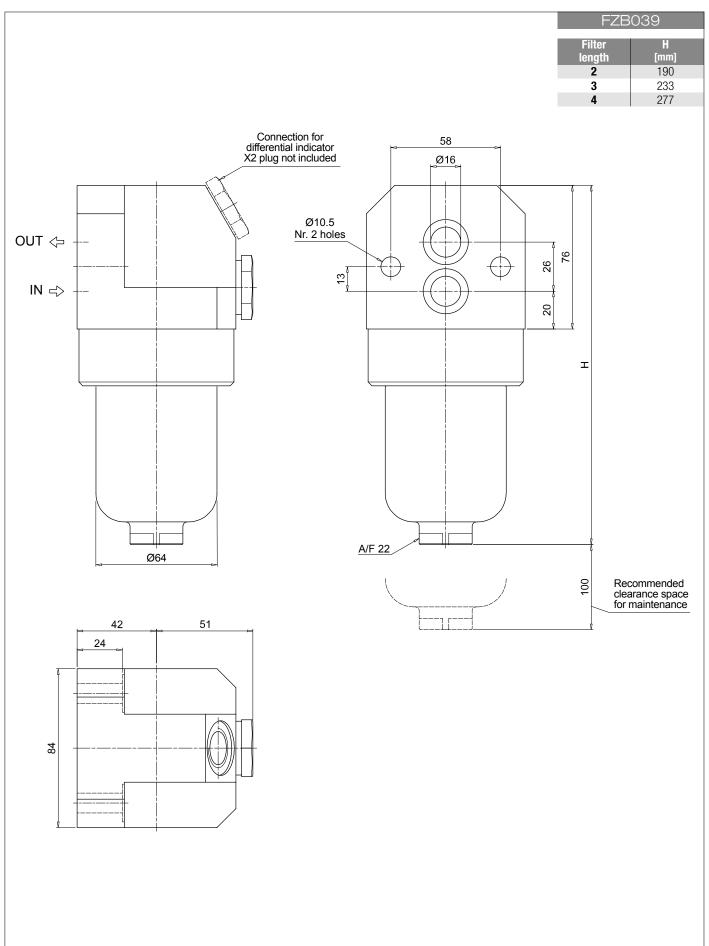
Designation & Ordering code





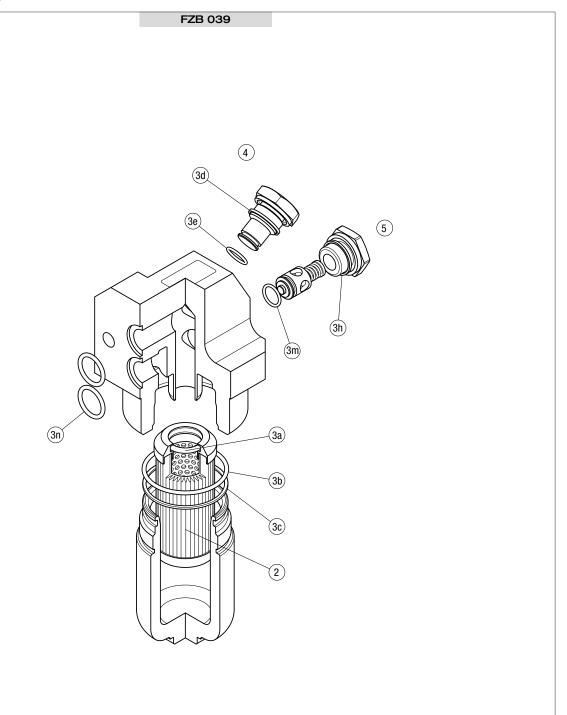
	CLOGGING INDICATORS See								
DEX	Electrical differential indicator	_	DVX	Visual differential indicator					
DLX	Electrical/visual differential indicator	-	DVY	Visual differential indicator					
		PLUGS			See page 706				
X2	Differential indicator plug (not included)	_							

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 cor NBR	nection plug FPM	Bypass assembly / plug NBR FPM			
FZB 039	See order table	02050647	02050648	X2H	X2V	02001286	02001295		