





Maximum working pressure up to 70 Mpa (700 bar) - Flow rate up to 80 I/min



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



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ZH GENERAL INFORMATION

Description

Technical data

Filters for potentially explosive atmosphere



Maximum working pressure up to 80 Mpa (700 bar) Flow rate up to 80 l/min

FZH 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 80 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 "N", for use with filters provided with bypass valve
- High collapse filter element "H", for use with filters not provided with bypass valve
- 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 with:

NBR seal in configuration **zerospark**+*



II 3G Ex h IIC T6 Gc X II 3D Ex h IIIC T85°C Dc X Filter housing materials

- Head: AISI 316L
- Housing: AISI 316L
- Bypass valve: AISI 316L

Seals

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

Bypass valve

Opening pressure 6 bar ±10%

Note FZH filters are provided for vertical mounting

∆p element type

Fluid flow through the filter element from OUT to IN

Microfibre filter elements - series N-R: 20 bar.

- Element series "N 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 H-S: 210 bar.

- Element series "H S": - End cap: Tinned steel
- Core tube: Tinned steel
- Core tube: Timed Steer
- 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

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

Weights [kg] and volumes [dm³]

Filter series			Weights	Weights [kg]					Volumes [di	m³]	
	Length						Length				4
FZH 012		2.1	2.2	2.7	3.3			0.10	0.12	0.15	0.20
FZH 040		-	4.5	5.1	5.6			-	0.19	0.26	0.34



GENERAL INFORMATION \vdash

Flow rates [l/min]

			Filter elem	ent design	- N Series			Filter eleme	ent design -	H-U Series	
Filter series	Length	A03	A06	A10	A16	A25	A03	A06	A10	A16	A25
	1	4	6	8	9	11	3	5	6	7	9
FZH 012	2	7	9	17	20	26	5	7	14	17	23
FZHUIZ	3	11	14	25	27	32	11	14	24	27	32
	4	17	20	29	31	34	13	16	26	29	33

			Filter elem	ent design	- R Series			Filter eleme	ent design -	S-U Series	
Filter series	Length	A03	A06	A10	A16	A25	A03	A06	A10	A16	A25
	2	19	25	43	50	59	19	23	41	45	55
FZH 040	3	34	37	53	62	74	31	34	48	52	66
	4	42	46	63	72	81	38	41	55	71	78

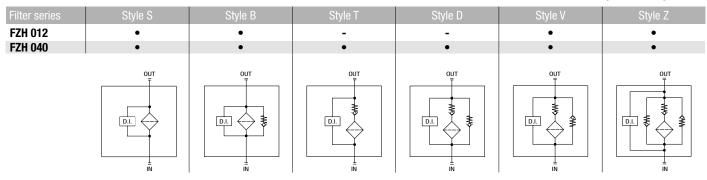
Maximum flow rate for a complete stainless steel high pressure filter with a pressure drop $\Delta p = 1.5$ bar.

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 housings ∆p pressure drop FZH 012 FZH 040 2.1 1.2 -7H 010 1.4 1.8 Δp bar Δp bar 0.7 0.4 F7H 01 0 0 0 20 30 40 50 0 16 32 48 64 80 10 Flow rate I/min Flow rate I/min

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





Pressure drop

FZH FZH012 Designation & Ordering code

			COM	PLETE FIL	TER									
Fil	ter Series and size	Configurat	tion example:	FZH012	2	B	F	3	2	AC	3	U	Z01	EX
	H012	j		_								Ť	Ť	
	-													
Fil	ter length													
	1 2 3 4													
Va	lves													
S	Without bypass													
В	With bypass 6 bar													
V	With reverse flow, without bypass													
Ζ	With reverse flow, with bypass 6 bar													
Se A	als NBR					 								
<u>v</u>	FPM													
F	MFQ													
Co	nnections													
A	G 1/4"							-						
В	1/4" NPT													
C	SAE 5 - 1/2" - 20 UNF													
D	G 3/8"													
Ε	3/8" NPT													
F	SAE 6 - 9/16" - 18 UNF													
	nnection for differential pressure indicator													
1	Without connection													
2	With connection	F												

Filtration rating (filter media)				Va	lves					
A03 Inorganic microfiber	3 µm	Element ∆p	S	В	V	Ζ		Execution	Cert	ifications
A06 Inorganic microfiber	6 µm	N 20 bar	-	•	-	•		zerospark*	EX	ATEX certifications
A10 Inorganic microfiber	10 µm	H 210 bar	•	-	٠	-	Z01	MP Filtri standard		
A16 Inorganic microfiber	16 µm	210 bar	_				Zxx	Customized		
A25 Inorganic microfiber	25 µm	stainless steel filter	element	•	•	-				

TED	ELEN		
IFR	FLEN	/I = N	

	ent series and size	Configuration example: HP011 2	A03	F	<u> </u>	JZ	01
HP01	1						
Elem	ent length						
1							
Filtra	ition 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						
Seal							
Α	NBR						
V	FPM						
F	MFQ						
Elem	ent Δp						
N	20 bar				Execut		
H	210 bar		70		zerosp		ord
U	210 bar, stainless steel filter element		Z0 Zx		MP Filtı Custom		aru
			<u> </u>	<u>, v</u>	ouston	1200	
		CLOGGING INDICATORS			See p	age 72	25
DEZ	Electrical differential pressure indicator	DVZ Visual differential pressure indicator					
		PLUGS			See p	age 74	13
Х3	Stainless steel plug (not included)					•	

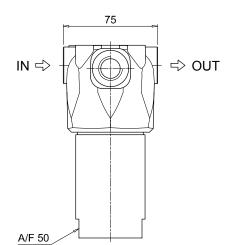
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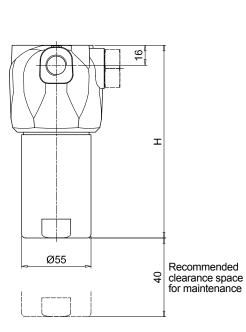
IN-LINE

FZH012 FZH

Dimensions

FZH012							
Filter length	H [mm]						
1	93						
2	104						
3	154						
4	204						
Connections	R						
Α	M6						
B - C	1/4" UNC						
D	M6						
E - F 1/4" UNC							





41 R - depth 12 mm Nr. 3 holes Connection for diff. pressure indicator X3 plug not included

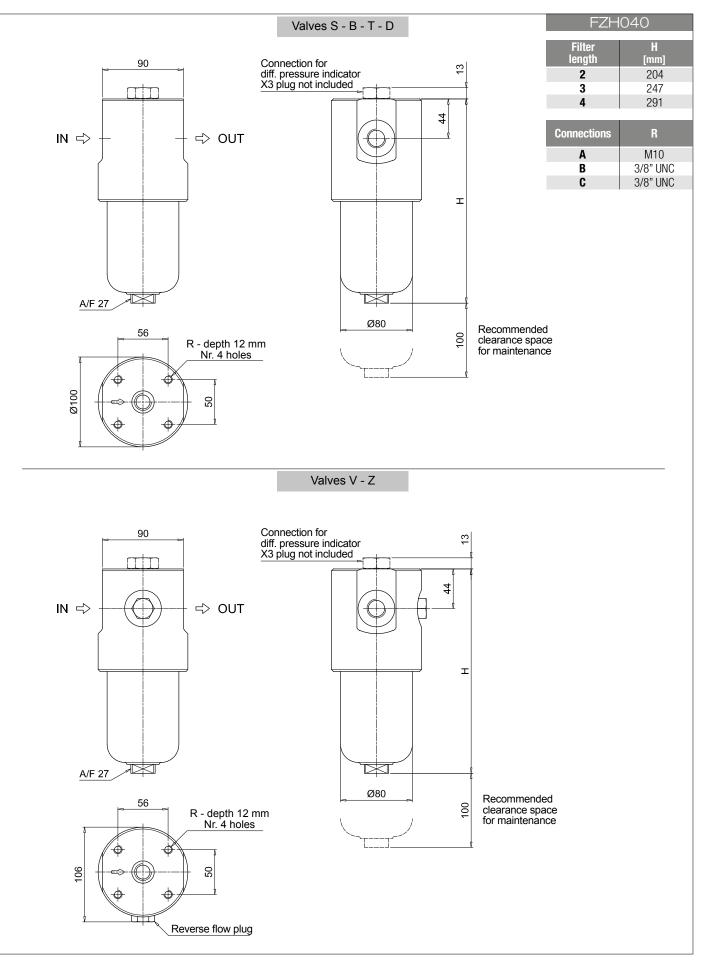


FZH FZH040

Designation & Ordering code

	COM	PLETE FILTER											
Filter Series and size	onfiguration example:	FZH040	2		A	A	2	A	03	S	Z01		X
FZH040	gan and the source of the sour				[Ē						
Filter 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													
V With reverse flow, without bypass													
Z With reverse flow, with bypass 6 bar													
Seals													
A NBR F MFQ													
V FPM													
0													
Connections													
A G 1/2"													
B 1/2" NPT C SAE 2 2/4" 16 UNE													
C SAE 8 - 3/4" - 16 UNF													
Connection for differential pressure indicator													
1 Without connection													
2 With 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													
Valv	es												
									Life a bit	ane			
Element ∆p S B T	DVZ		E	ecutio					tificati				
Element Δp S B T R 20 bar -	D V Z			ze	r <mark>osp</mark> ar		4	Cer EX		X certi	ficatio	ons	
Element Δp S B T R 20 bar - - - S 210 bar • - •	D V Z		ZC	ze)1 Mi	<mark>rospar</mark> P Filtri s	tandar	d				ficatio	ons	
Element Δp S B T R 20 bar -	D V Z - • • • • •			ze)1 Mi	r <mark>osp</mark> ar	tandar	d				ficatio	ons	_
Element Δp S B T R 20 bar - - - S 210 bar • - •		ER ELEMENT	ZC	ze)1 Mi	<mark>rospar</mark> P Filtri s	tandar	d				ficatio	ons	
Element Δp S B T R 20 bar - - S 210 bar • - U 210 bar, stainless steel filter element • •			ZC	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	d 2	EX			fication fic		01
Element Δp S B T R 20 bar - - - S 210 bar • - •			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
Element Δp S B T R 20 bar - • - S 210 bar • - • U 210 bar, stainless steel filter element • • • Element series and size HP039			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
Element Δp S B T R 20 bar - • - S 210 bar • - • U 210 bar, stainless steel filter element • • • Element series and size HP039 Element length			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
Element Δp S B T R 20 bar - - - S 210 bar • - • - U 210 bar, stainless steel filter element • • • Element series and size HP039 • • • Element length 2 3 4 •			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
Element Δp S B T R 20 bar - - - S 210 bar • - • - U 210 bar, stainless steel filter element • • • Element series and size HP039 • • • Element length 2 3 4 • Filtration rating (filter media) • • •			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
Element Δp S B T R 20 bar - - S 210 bar • - U 210 bar, stainless steel filter element • • U 210 bar, stainless steel filter element • • Element series and size HP039 Element length 2 3 4 Filtration rating (filter media) 3 μm			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
Element Δp S B T R 20 bar - - S 210 bar - - U 210 bar, stainless steel filter element • • U 210 bar, stainless steel filter element • • Element series and size HP039 Element length 2 3 4 Filtration rating (filter media) 3 μm A03 Inorganic microfiber 3 μm A06 Inorganic microfiber 6 μm			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
Element Δp S B T R 20 bar - - S 210 bar - - U 210 bar, stainless steel filter element • • U 210 bar, stainless steel filter element • • Element series and size HP039 - • Element length 2 3 4 - Filtration rating (filter media) A03 Inorganic microfiber 3 μm A06 Inorganic microfiber 6 μm A10 Inorganic microfiber 10 μm			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
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Element Δp S B T R 20 bar - - S 210 bar - - U 210 bar, stainless steel filter element • • U 210 bar, stainless steel filter element • • Element series and size HP039 - • Element length 2 3 4 - Filtration rating (filter media) - - - A03 Inorganic microfiber 3 µm - A06 Inorganic microfiber 6 µm - A10 Inorganic microfiber 10 µm - A16 Inorganic microfiber 25 µm - Seals - - - A NBR V FPM			Z(Z)	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	X certi			01
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Element Δp S B T R 20 bar - - S 210 bar - - U 210 bar, stainless steel filter element • • U 210 bar, stainless steel filter element • • Element series and size HP039 • • Element length 2 3 4 • 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 A NBR V FPM F MFQ Element Δp R 20 bar S 210 bar U 210 bar, stainless steel filter element		Config	<u>Z(</u> Z) guration e	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	AA	S S S S S S S S S S S S S S] Z rk₊ standa zed	ard
Element Δp S B T R 20 bar - - S 210 bar - - U 210 bar, stainless steel filter element • • U 210 bar, stainless steel filter element • • Element series and size HP039 • • Element length 2 3 4 • 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 A NBR V FPM F MFQ Element Δp R 20 bar S 210 bar U 210 bar, stainless steel filter element		Config	<u>Z(</u> Z) guration e	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	AA	S S S S S S S S S S S S S S] Z standa ge 72	ard
Element Δp S B T R 20 bar - - S 210 bar - - U 210 bar, stainless steel filter element • • U 210 bar, stainless steel filter element • • Element series and size HP039 Element length 2 3 4 Filtration rating (filter media) A03 Inorganic microfiber 3 µm A06 Inorganic microfiber 6 µm A06 Inorganic microfiber 10 µm A10 Inorganic microfiber 10 µm A16 Inorganic microfiber 25 µm Seals A NBR V FPM F MFQ Element Δp R 20 bar S 210 bar U 210 bar, stainless steel filter element DVZ Visual differential pressure indicator Element Element Element Element		Config	<u>Z(</u> Z) guration e	ze D1 MI XX Cu	rospar P Filtri s Istomize	tandar ed	_	EX	ATE	AA	S S S S S S S S S S S S S S] Z standa ge 72	ard

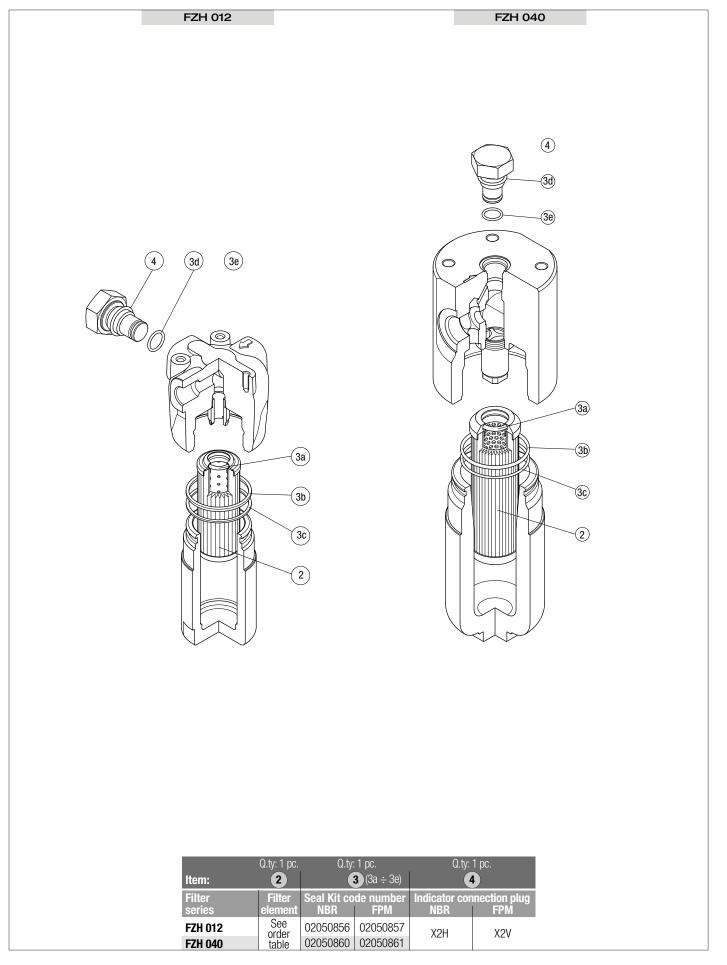
Dimensions





FZH SPARE PARTS

Order number for spare parts





CLOGGING INDICATORS

FILTERS FOR POTENTIALLY EXPLOSIVE ATMOSPHERE

Designation & Ordering code

	Γ	DIFFEF	RENTI	AL PR	ESSUF	RE INDICATO	RS								
Ser	ies				Configu	ation example 1:	DE	Η	50)	F	Α	۱	48	P01
	Electrical differential pressure indicator				Confiau	ation example 2:	DV	Х	70)	V				P01
DV	Visual differential pressure indicator				Ū							T	-	Т	
Тур	٩	DF	DV												
A	With automatic reset	-	•												
Μ	With manual reset	-	•												
H	Stainless steel hazardous area 420 bar	•	-	-											
X	Stainless steel standard type 420 bar	-	٠	-											
Y	Stainless steel optional type 420 bar	-	٠	-											
Dro	ssure setting	DEH	DVA	DVM	DVV	DVY									
	5.0 bar	•	UVA •		•	•		 							
	7.0 bar	•	•	•	•	•									
	9.5 bar	-	•	•	•	•									
Co		DEU	DVA	DVM	DWY	DWV									
Sea H	HNBR	DEH	DVA		DVX			 							
v	FPM	•	•	•	•	•									
F	MFQ	•	_	_	_										
-															
The	ermostat	DEH													
A T	Without thermostat With thermostat	•													
<u> </u>	with thermostat	-													
Ele	ctrical connections	DEH													
48	Connection via three-core cable - fitting M20x1.5	•													
49	Connection via four-core cable - fitting 1/2" NPT	•									0.	otion			
70	Connection IEC 61076-2-101 D (M12)	•									PO			tri sta	ndard
											Px		Custo		

	PLUGS
Series	Configuration example X2 H
T2 Plug	
X2 Stainless Steel plug 420 bar	-
X3 Stainless Steel plug 700 bar (only for FZH)	
Seals	
H HNBR	
V FPM	_

F MFQ

