

FHF 325 series

Maximum working pressure up to 35 MPa (350 bar) - Flow rate up to 550 I/min Filter housing according to SAE J2066 for HF4 filter elements



INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS



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FHF 325 GENERAL INFORMATION

Filter housing according to SAE J2066 for HF4 filter elements

Description

High Pressure filters

Manifold

Maximum working pressure up to 35 MPa (350 bar) Flow rate up to 550 l/min

FHF is a range of high pressure filter for protection of sensitive components in high pressure hydraulic systems in the mobile machines. They are directly connected to the lines of the system through the hydraulic fittings or the proper flanged interface.

Available features:

- 1 1/2" female threaded connections, 1 1/2" flanged connections and manifold connections up to 1 1/2", for a maximum flow rate of 550 l/min
- Base-mounting design, for ease of the replacement of the filter element
- Filter element designed in accordance with SAE J2066 HF4 regulation
- 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
- Visual, electrical and electronic differential clogging indicators

Common applications:

Delivery lines, in any high pressure industrial equipment

Technical data

Filter housing materials

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Cover: Cast iron (chemical heat treatment)
- Bypass valve: Brass Steel

Pressure

- Working pressure: 35 MPa (350 bar)
- Test pressure: 52.5 MPa (525 bar)
- Burst pressure: 105 MPa (1050 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 35 MPa (350 bar)

Bypass valve

- Opening pressure 600 kPa (6 bar) ±10%
- Other opening pressures on request.

Δp element type

- Microfibre filter elements series N: 20 bar
- Wire mesh filter elements series N: 20 bar
- Fluid flow through the filter element from OUT to IN

Seals

- Standard NBR series A
- Optional FPM series V

Temperature

From -25 °C to +110 °C

Connections

FHF 325: In-line threaded connection

FHF 325: In-line flanged connection

FHF 325: Manifold mounting

Note

FHF filters are provided for vertical mounting

Weights [kg] and volumes [dm3]

Filter series			Weights [kg]				Volumes [dm³]		
	Length				Length				
FHF 325		23.90	32.68	41.47		3.50	5.80	8.11	



GENERAL INFORMATION FHF 325

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Flow rates [I/min]

			Filter element design - N Series							
Filter series	Length	A03	A06	A10	A16	A25	M25			
	1	302	339	348	419	500	556			
FHF 325	2	401	424	434	457	505	557			
	3	416	451	460	469	510	559			

Maximum flow rate for a complete 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.

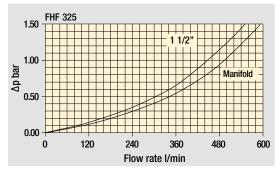
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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
FHF 325	•	•
	ουτ Τ	OUT T
	D.I.	D.I.
	IN IN	in in

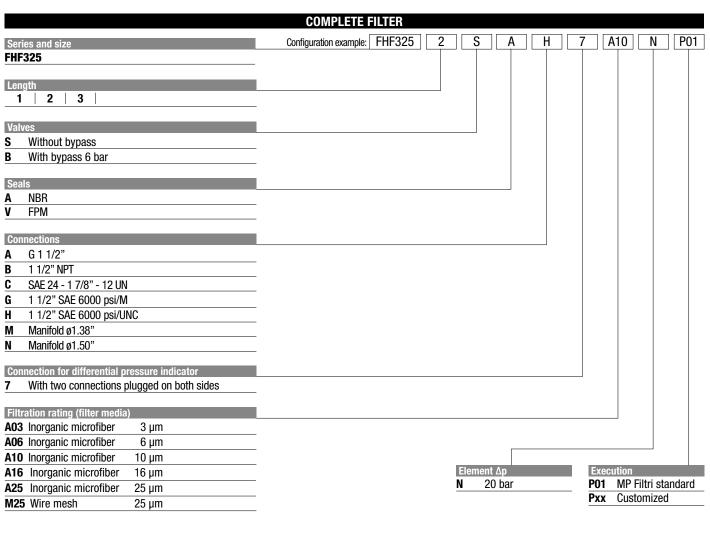
Pressure drop Filter housings Δp pressure drop

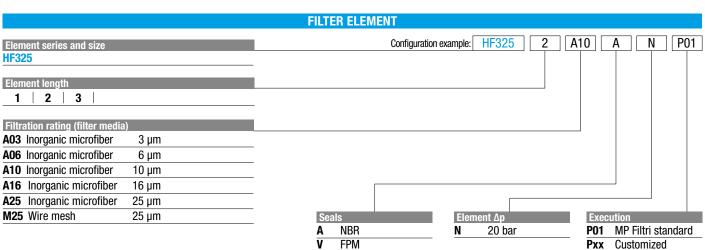


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

FHF 325

Designation & Ordering code

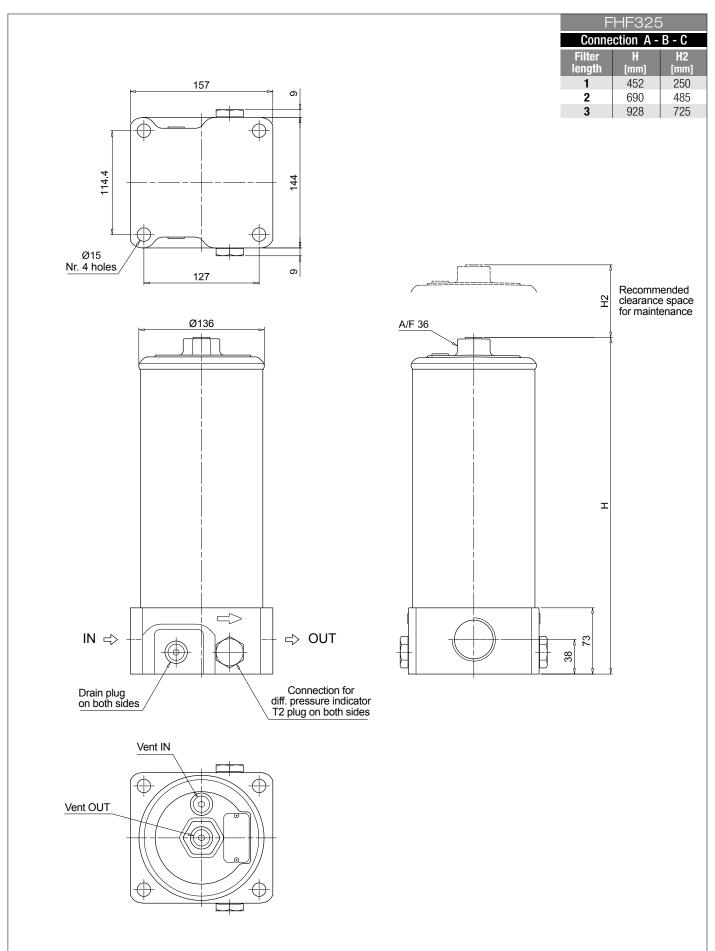




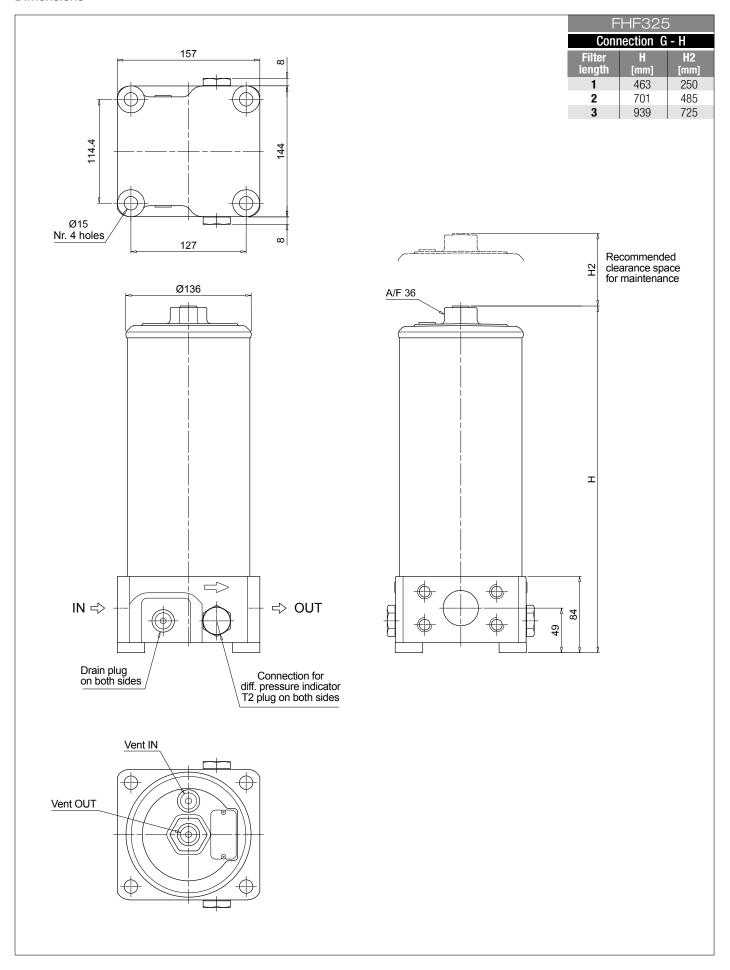
	CL	OGGING INDICA	ATORS	See page 727
DEA	Electrical differential pressure indicator	D	PLE Electrical / visual differential pressure indicator	
DEM	Electrical differential pressure indicator	D	TA Electronic differential pressure indicator	
DEU	Electrical differential pressure indicator	D	VA Visual differential pressure indicator	
DLA	Electrical / visual differential pressure indicator	D	VM Visual differential pressure indicator	
		DI IIGG		See nage 747

T2 Plug (not included)

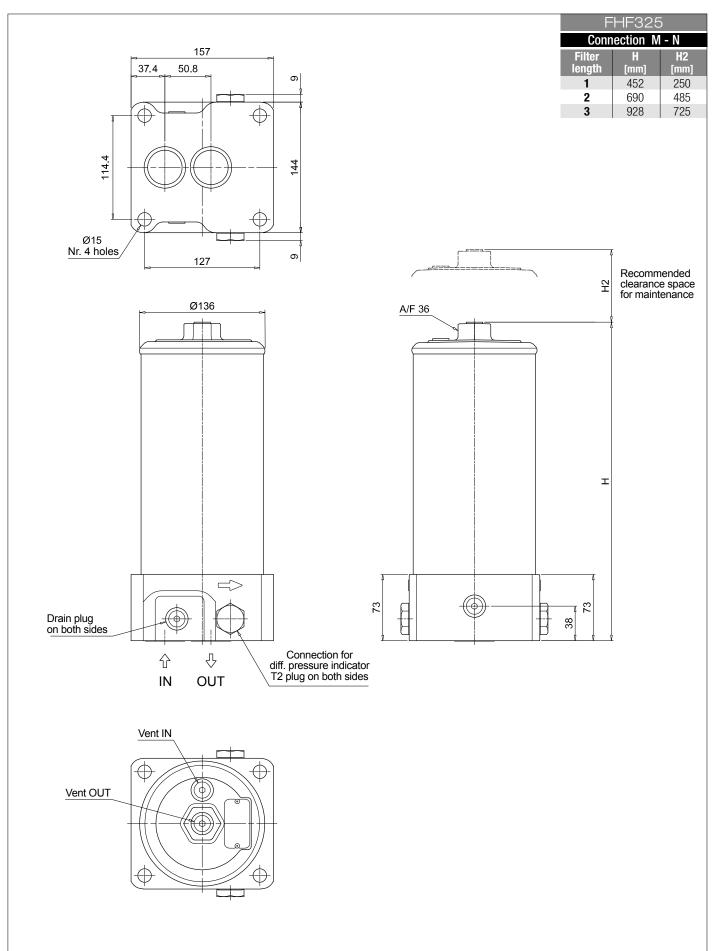
Dimensions



Dimensions



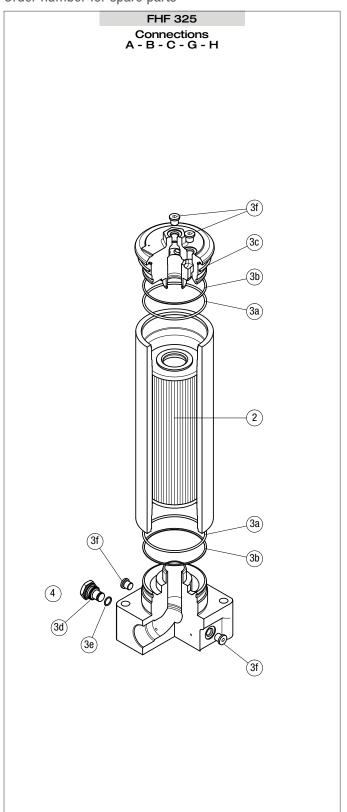
Dimensions



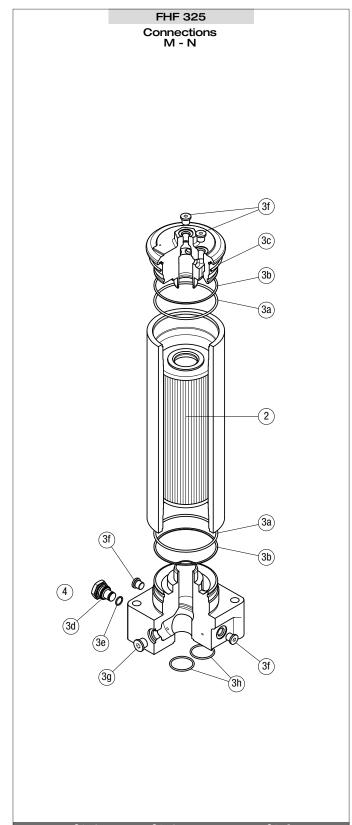
FHF 325 SPARE PARTS

Filter housing according to SAE J2066 for HF4 filter elements

Order number for spare parts



	Q.ty: 1 pc.	Q.ty:	1 pc.	Q.ty:	2 pc.
Item:	2		3 (3a ÷ 3f)		1
Filter series	Filter element	Seal Kit co NBR	de number FPM	Indicator cor NBR	nnection plug FPM
FHF 325 A-B-C-G-H	See order table	02050588	02050589	T2H	T2V



	Q.ty: 1 pc.		1 pc.	Q.ty:	2 pc.
Item:	2		3 (3a ÷ 3h)	4	1
Filter series	Filter element	Seal Kit co NBR	de number FPM	Indicator cor NBR	nnection plug FPM
FHF 325 M-N	See order table	02050590	02050591	T2H	T2V

Designation & Ordering code

		DIFFE	RENTIAL P	RESSU	JRE INI	DICAT	ΓORS								
Series			Configu	uration ex	ample 1:	DI	E	M	12	2	Н	F	50	P01	
	ical differential pressure indicator		Configu	uration ex	ample 2:	DI	E	U	50	<u> </u>	V	Α	50	P01	UL
	ical/Visual differential pressure indicator	_	_		ample 3:	DI		E	20		٧	Α	71	P01	
	onic differential pressure indicator	_	•			D			50		H	F	70	P01	
DV Visua	I differential pressure indicator	_	-		ample 4:			Α				Г	70		
			Configu	uration ex	ample 5:	D\	V	M	70) [V	_	_	P01	
Туре	חב ח		DV												
	lard type • • •	A	With automati												
	wired electrical connection •	- <u>A</u>	With manual r			-									
	ard type 210 bar, UL certified •	_ '*'	vviui iiiaiiaai i	0001		-									
	gh power supply - • -	_													
	· · · · · · · · · · · · · · · · · · ·	_													
Pressure s 50 5.0 ba		DLE	DTA DVA	DVM _											
70 7.0 ba		•	• •	•											
95 9.5 ba		•	• •	•											
						_									
Seals	DEA DEM DE	J DL	A DLE DT	A DV	A DVM										
H HNBR		•	• •	•	•	_									
V FPM	• • •	•	• •	•	•	_									
Thermosta		J DL	A DLE D	Г											
	ut thermostat • • •	•	• -	_											
F With t	thermostat - • -	-	• •	_											
Electrical	connections			DEA	DEM	DEU	DLA	DLE	DT						
10 Conne	ection AMP Superseal series 1.5			-	•	-	-	-	-						
20 Conne	ection AMP Timer Junior			-	•	-	-	-	-						
30 Conne	ection Deutsch DT-04-2-P			-	•	-	-	-	-						
35 Conne	ection Deutsch DT-04-3-P			-	•	-	-	-	-	-					
	ection EN 175301-803			•	-	•	-	•	-	_					
	ection EN 175301-803, transparent base with			-	-	-	•	-	-						
	ection EN 175301-803, transparent base with	lamps	110 Vdc	-	-	-	•	-	-						
	ection IEC 61076-2-101 D (M12)			-	-	-		-,	•						
71 Conn	ection IEC 61076-2-101 D (M12), black base	with la	mps 24 Vdc	-	-	-	•	-	-	-					
										Opt	tion				
										P01	I MP	Filtri st	andard		
										Рхх	c Cus	stomize	d	_	
										Cer	tificati		DI	EU 01	HERS
											With	out ertificati	ion •	-	•
										UL	UL C	tiuncal	UII	-	

	PLUGS
Series	Configuration example T2 H
Series T2 Plug	
Seals	
H HNBR	
V FPM	