

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



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



Scan or click me!



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

Filter housing according to SAE J2066 for HF4 filter elements

Flow rates [I/min]

			Filter element design - N Series								
Filter series	Length	A03	A06	A10	A16	A25	M25				
FHF 325	1	302	339	348	419	500	556				
	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.

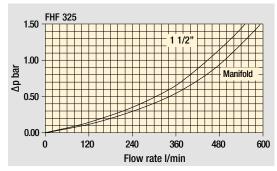
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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	•	•
	о <u>и</u> т Т	о <u>л</u> т Т
	D.I.	D.I.
	± IN	± IN

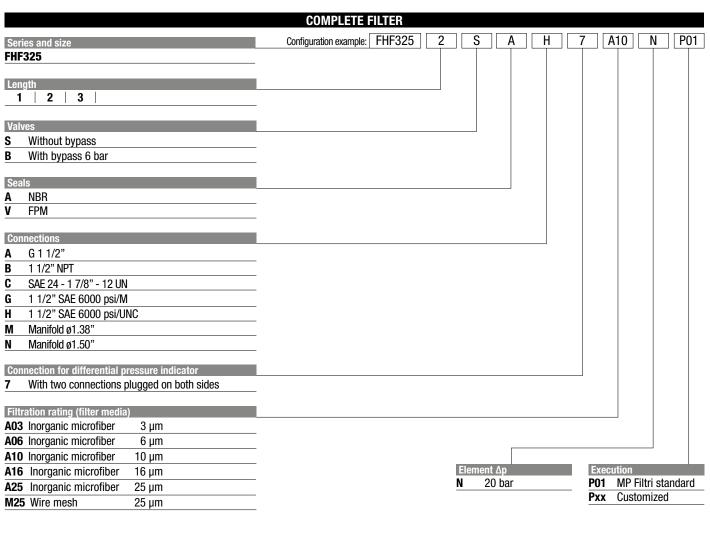
Pressure drop Filter housings Δp pressure drop

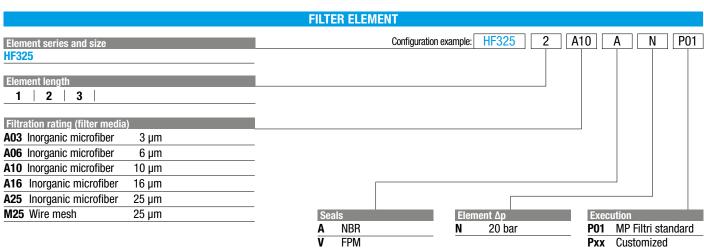


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

FHF 325

Designation & Ordering code



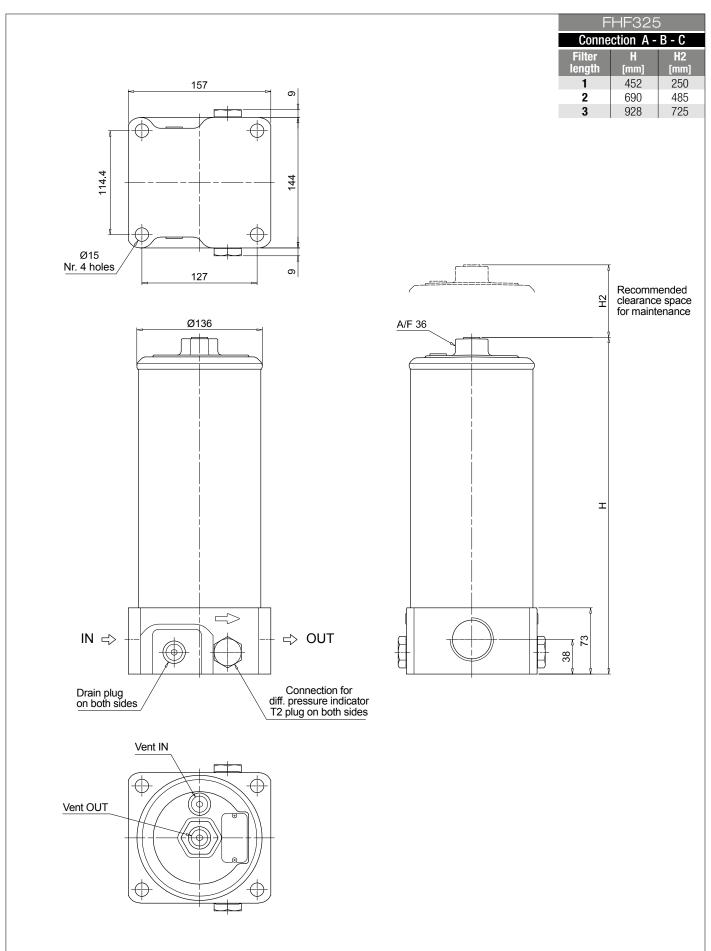


	CLOGGING INDICATORS						
DEA	Electrical differential pressure indicator	DL	E Electrical / visual differential pressure indicator				
DEM	Electrical differential pressure indicator	D1	A Electronic differential pressure indicator				
DEU	Electrical differential pressure indicator	/A Visual differential pressure indicator					
DLA	Electrical / visual differential pressure indicator	D۱	/M Visual differential pressure indicator				
		PLUGS		See page 747			

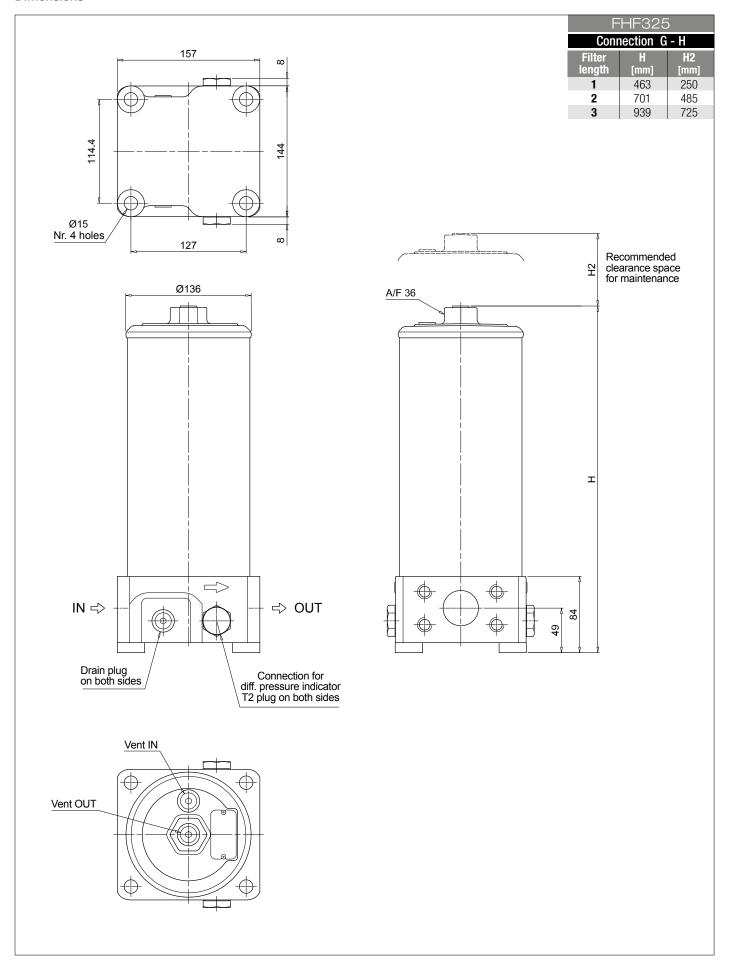
T2 Plug (not included)

580

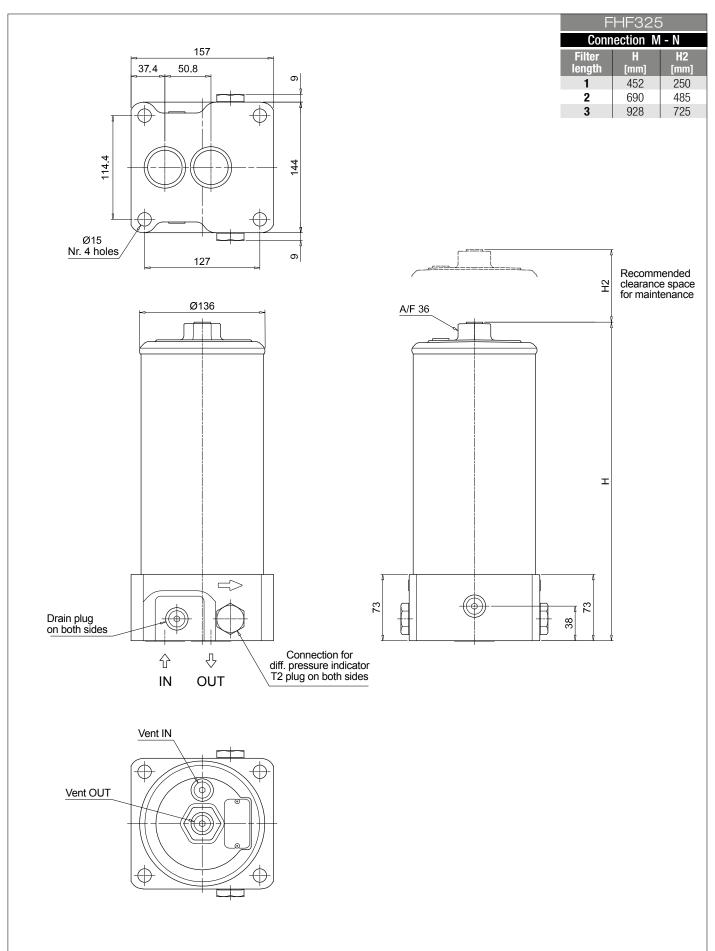
Dimensions



Dimensions



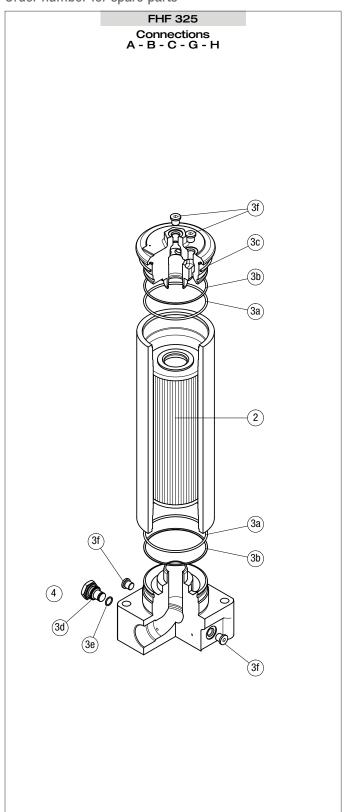
Dimensions



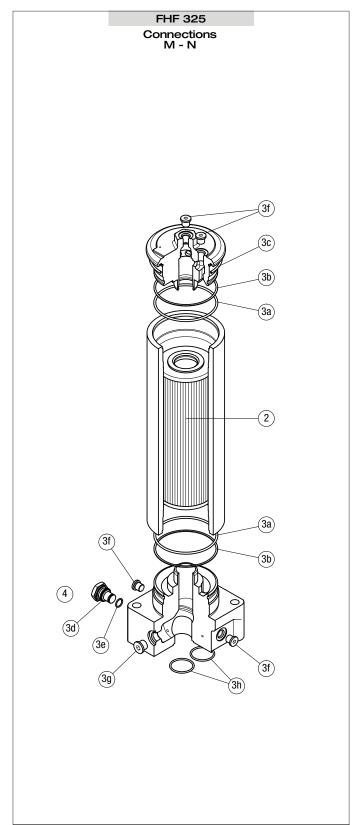
FHF 325 SPARE PARTS

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				



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

Designation & Ordering code

		DIFF	ERENTIAL P	RESSI	JRE IN	IDICA	TORS	;							
Ser	ies		Config	uration ex	kample 1	: [)E	M		12	Н	F	50	P01	
	Electrical differential pressure indicator		Config	uration ex	cample 2	: C)E	U	7 (50	٧	Α	50	P01	UL
	Electrical/Visual differential pressure indicator	_	Config	uration ex	ample 3		וו	F	٦Ŀ	20	V	Δ	71	P01	\Box
	Electronic differential pressure indicator	_	_		-										
DV	Visual differential pressure indicator	_	_		-							Г	70	P01	
			Config	uration ex	cample 5	: [V	M		70	V	_	_	P01	
Тур	e DF DI DT		D/												
A		A													
M		M				_									
U		_				_									
E	For high power supply - • -	_													
Dro	SSURA SATTINA DEA DEM DELL DI A	DIE	DTA DVA	DVM											
		•	• •	•											
		•	• •	•											
		•	• •	•											
		1 51	A DIE DI	'A DV	A DV/										
H		ייי	A DLE DI	ALDV	A DVI	VI									
Ü			•	•	•	_									
_			4 01 = 0			_									
		וע ו ע	A DLE D	ı											
A F				_											
-				_											
				DEA	DEM	DEU	DLA	DLE	DT						
				-	•	-	-	-	-						
				-	•	-	-	-	-						
				-		-	-	-	-	_					
				-		-	-	-	-						
		I	041/4-												
										_					
		iamps	s 110 vac												
		with Is	mne 24 Vdc							_					
<u>/ </u>	Connection ILC 01070-2-101 D (W12), black base v	viui ic	iiips 24 vuc	-	-	-									
										_				_	
										P	cx Cu	stomize	a	_	
		Configuration example 2: DE		:II	THERS										
	Electrical differential pressure indicator Electronic differential pressure indicator Electronic differential pressure indicator Visual differential pressure indicator Visual differential pressure indicator Be DE DL DE Standard type With wired electrical connection Standard type 210 bar, UL certified For high power supply SSURE SETTING DEA DEM DEU DLA 5.0 bar 7.0 bar 9.5 bar DEA DEM DEU DLA TO BAT DEM DEU DLA TO BAT DEM DEU DLA TO BAT DEM									G			J.	. 0	•
										UI			ion •	•	_

	PLUGS	
Series	Configuration example T2	1
T2 Plug		
Seals		
H HNBR		
V FPM	_	