

# FHF 325 series

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





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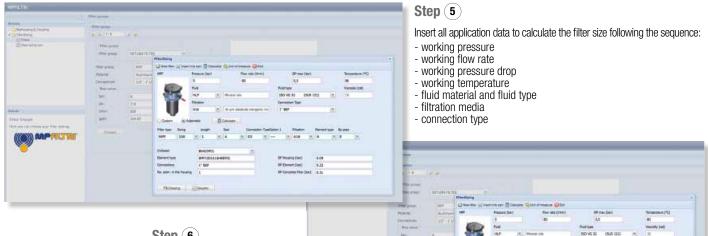
### YPICAL FILTER SIZING Selection Software

#### **Step** (1) Select "FILTERS"



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





#### Step (6)

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

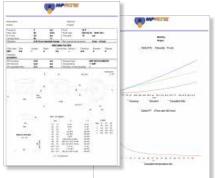




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# FHF 325 GENERAL INFORMATION

#### 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 500 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.

#### ∆p 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 [dm<sup>3</sup>]

Filter series			Weights [kg]				Volumes [dm <sup>3</sup>	]	
	Length				Length				
FHF 325		23.90	32.68	41.47		3.50	5.80	8.11	

### Filter housing according to SAE J2066 for HF4 filter elements

#### FILTER ASSEMBLY SIZING 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	

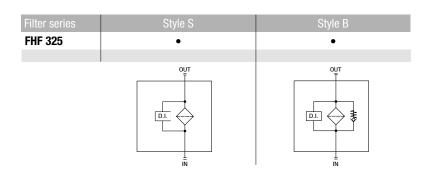
Maximum flow rate for a complete pressure filter with a pressure drop  $\Delta p = 1.5$  bar.

The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

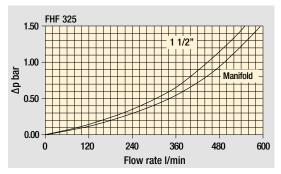
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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



Pressure drop Filter housings Δp pressure drop



The curves are plotted using mineral oil with density of 0.86 kg/dm<sup>3</sup> in compliance with ISO 3968. Δp varies proportionally with density.





### EHE 325 Designation & Ordering code

#### **COMPLETE FILTER** 2 S 7 A10 Configuration example: FHF325 А H N P01 Series and size **FHF325** Length 1 2 3 Valves Without bypass S В With bypass 6 bar Seals NBR A V FPM Connections A G 1 1/2" В 1 1/2" NPT C SAE 24 - 1 7/8" - 12 UN G 1 1/2" SAE 6000 psi/M H 1 1/2" SAE 6000 psi/UNC Manifold ø1.38" М Manifold ø1.50" Ν **Connection for differential indicator** 7 With two connections plugged on both sides Filtration rating (filter media) A03 Inorganic microfiber 3 µm A16 Inorganic microfiber 16 µm A06 Inorganic microfiber 6 µm A25 Inorganic microfiber 25 µm A10 Inorganic microfiber 10 µm M25 Wire mesh 25 µm Element ∆p Execution Ν 20 bar P01 MP Filtri standard Pxx Customized

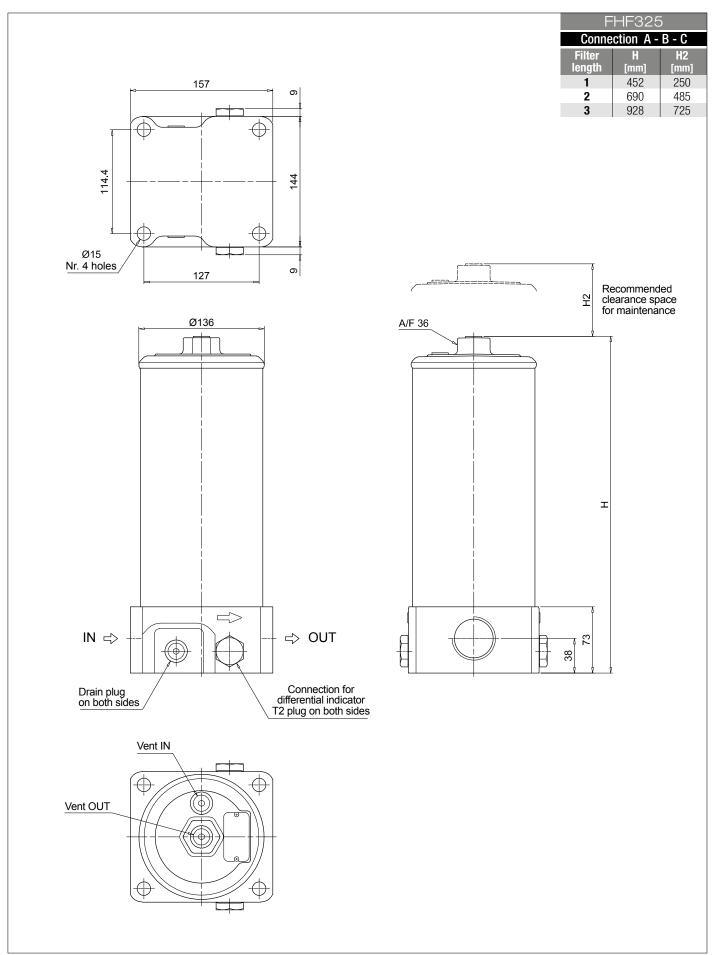
		FILTER ELEMI	ENT				
Element series and size HF325			Configuration example:	HF325	2 A10		P01
Element length   1 2 3   Filtration rating (filter media)		_					
A03 Inorganic microfiber 3 μm	A16 Inorganic microfiber	16 µm					
A06 Inorganic microfiber 6 µm	A25 Inorganic microfiber	25 µm					
A10 Inorganic microfiber 10 µm	M25 Wire mesh	25 µm					
		Seals A NBR V FPM	Elem N	ent ∆p 20 bar		Execution P01 MP Filtri sta Pxx Customized	

	ACCES	SORIES
Differential indicators	page	
DEA Electrical differential indicator	577	DLE Electrical / visual differential indicator
DEH Hazardous area electronic differential indicator	577-578	DTA Electronic differential indicator
DEM Electrical differential indicator	578-579	DVA Visual differential indicator
DLA Electrical / visual differential indicator	579-580	DVM Visual differential indicator
Additional features	page	
T2 Plug	582	

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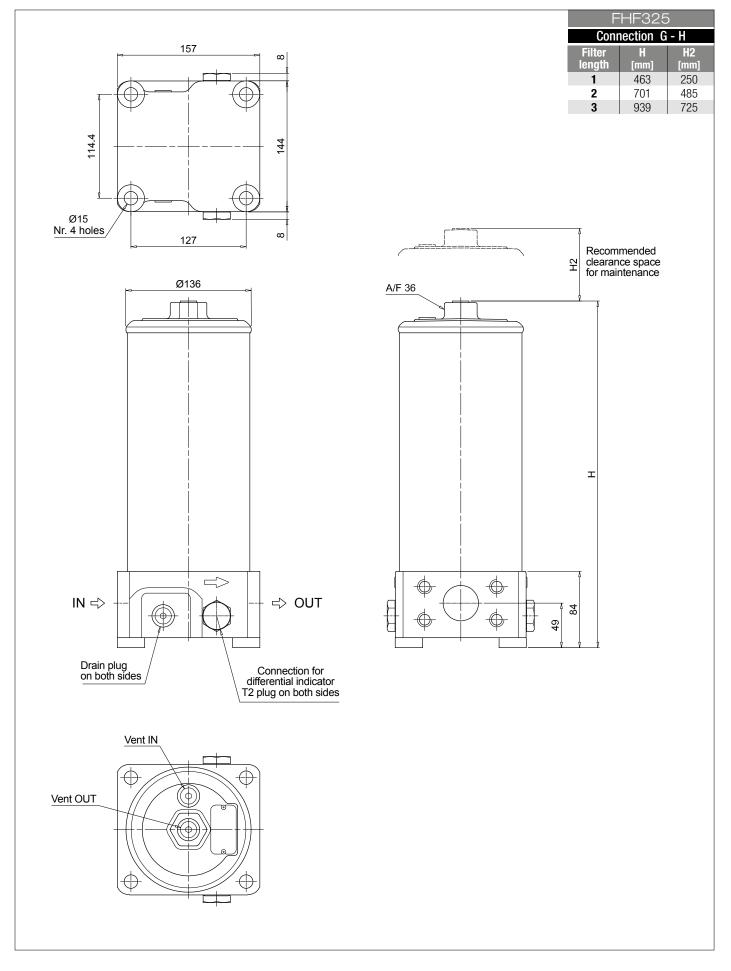
## FHF 325

Dimensions



## FHF 325

### Dimensions

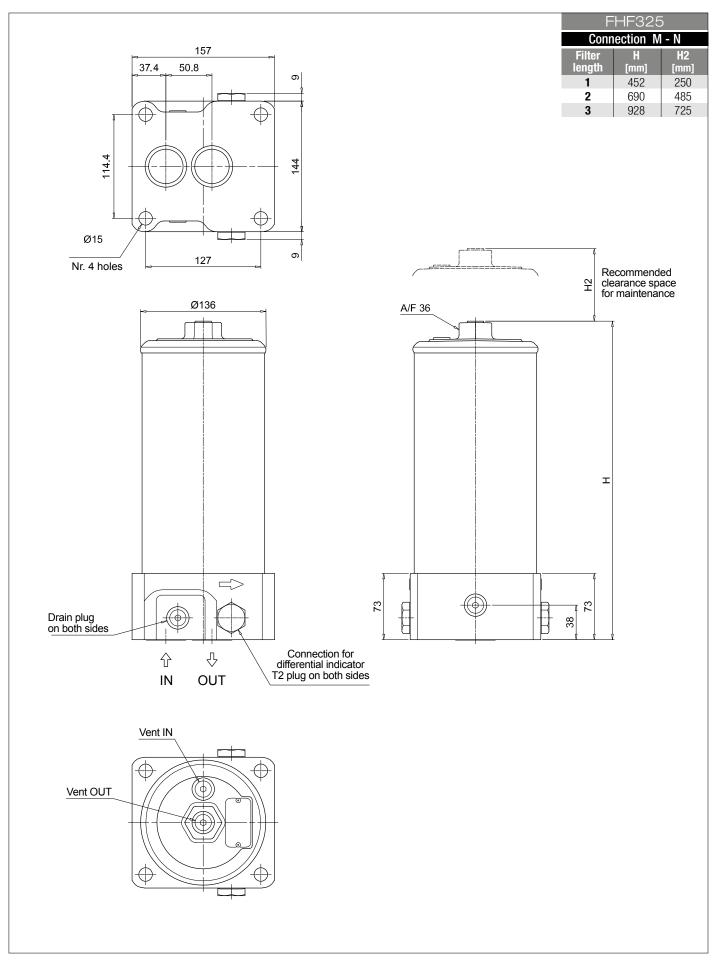


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## FHF 325

Dimensions





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## FHF 325 SPARE PARTS

Filter housing according to SAE J2066 for HF4 filter elements

Order number for spare parts

