

FHF 325 series

Maximum working pressure up to 35 MPa (350 bar) - Flow rate up to 500 I/min Filter housing according to SAE J2066 for HF4 filter elements



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 500 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.

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

FILTER ASSEMBLY SIZING 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.

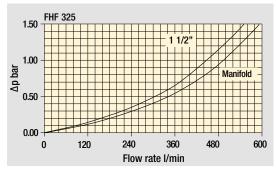
For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

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 | • | • |
| | | |
| | OUT T | OUT T |
| | D.I. | D.I. \$ |
| | IN Ţ | IN ± |

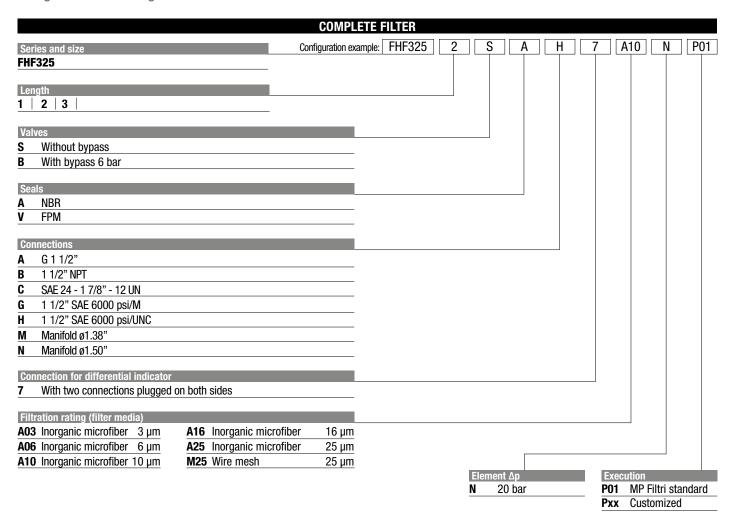
Pressure drop Filter housings Δp pressure drop

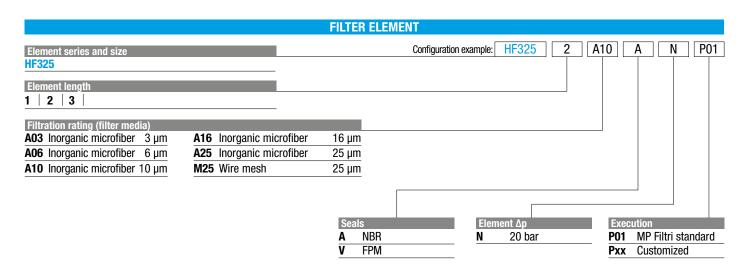


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



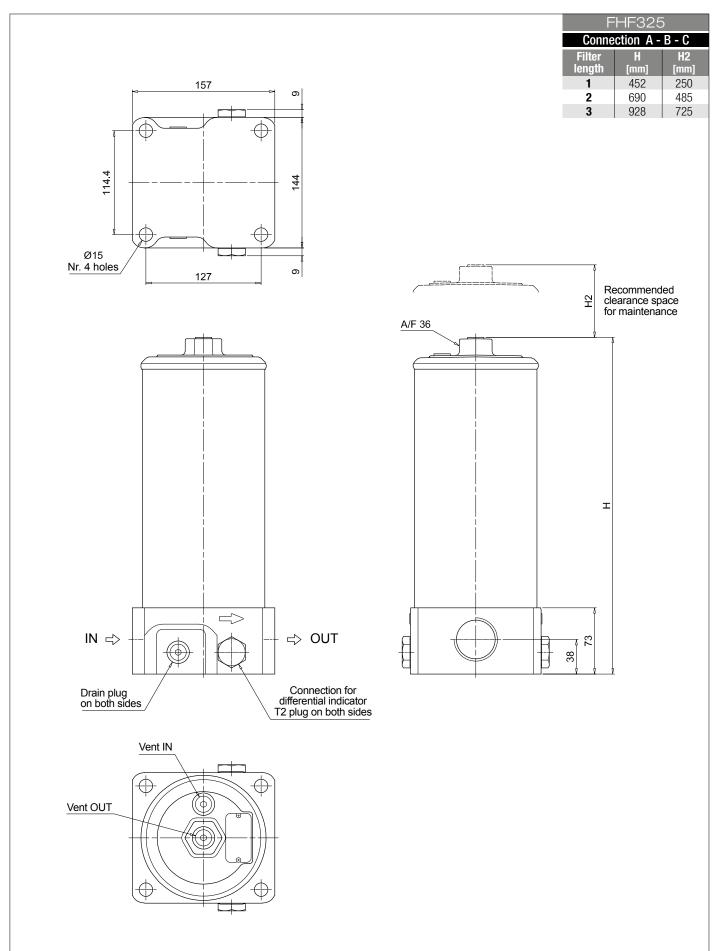
Designation & Ordering code



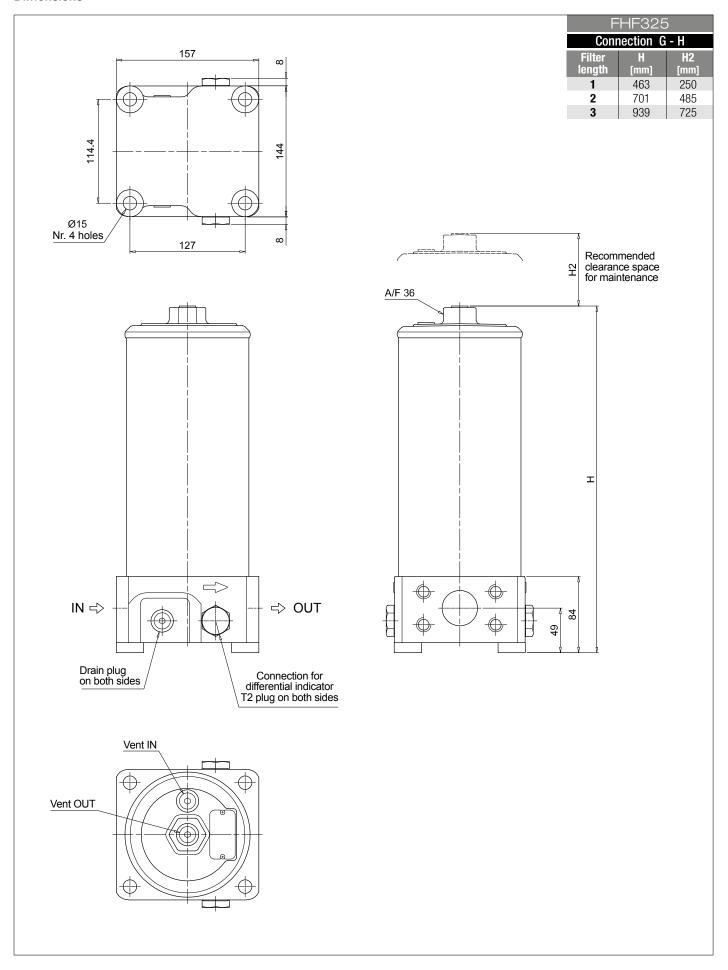


| | ACCESSORIES | | | | | | | | |
|-------|--|---------|-----|--|------|--|--|--|--|
| Diffe | erential indicators | page | | | page | | | | |
| DEA | Electrical differential indicator | 567 | DLE | Electrical / visual differential indicator | 570 | | | | |
| DEH | Hazardous area electronic differential indicator | 567-568 | DTA | Electronic differential indicator | 571 | | | | |
| DEM | Electrical differential indicator | 568-569 | DVA | Visual differential indicator | 571 | | | | |
| DLA | Electrical / visual differential indicator | 569-570 | DVM | Visual differential indicator | 571 | | | | |
| | | | | | | | | | |
| Addi | itional features | page | | | | | | | |
| T2 | Plug | 572 | | | | | | | |

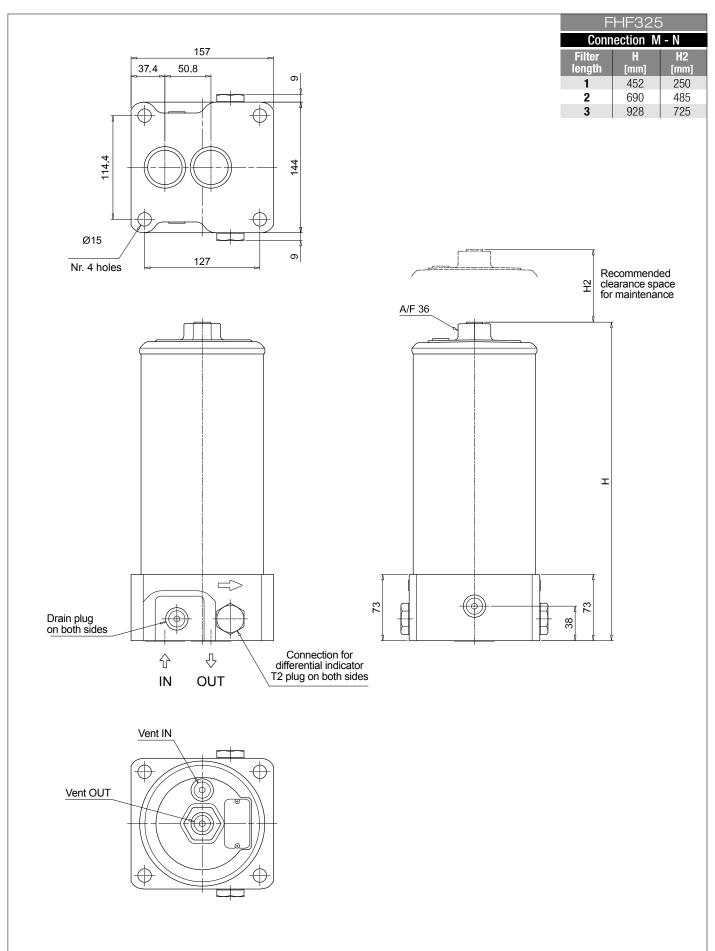
Dimensions



Dimensions



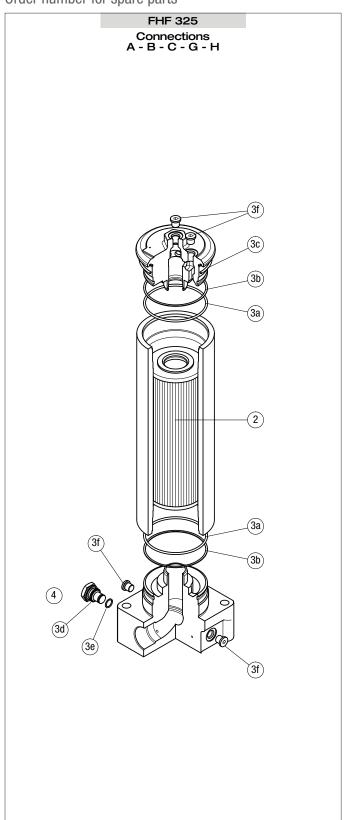
Dimensions



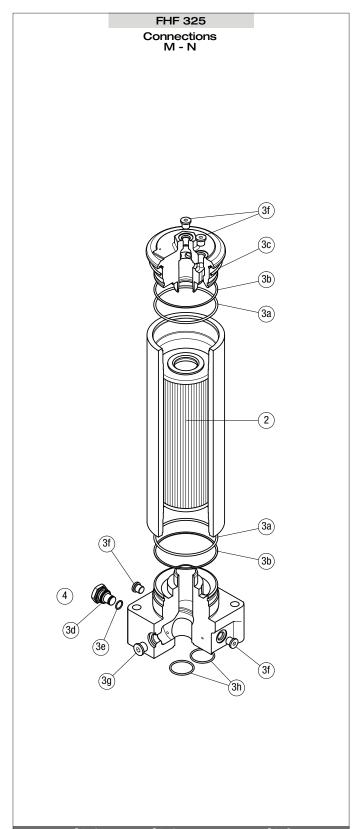
FHF 325 SPARE PARTS

Filter housing according to SAE J2066 for HF4 filter elements

Order number for spare parts



| | Q.ty: 1 pc. | Q.ty: 1 pc. | | ty: 1 pc. Q.ty: 1 pc. Q.ty: 2 pc. | | | 2 pc. |
|----------------------|-----------------------|---------------------------------|----------|--------------------------------------|-----|--|-------|
| Item: | 2 | 3 (3a ÷ 3f) | | 4 | | | |
| Filter series | Filter element | Seal Kit code number NBR FPM | | Indicator connection plug NBR FPM | | | |
| FHF 325 A-B-C-G-H | See order table | 02050588 | 02050589 | T2H | T2V | | |



| | Q.ty: 1 pc. | Q.ty: 1 pc. | | Q.ty: 2 pc. | | |
|------------------|-----------------------|-------------|-------------|--------------------------------------|-----|--|
| Item: | 2 | • | 3 (3a ÷ 3h) | 4 | 1) | |
| Filter series | Filter element | | | Indicator connection plug NBR FPM | | |
| FHF 325 M-N | See order table | 02050590 | 02050591 | T2H | T2V | |