

# CATFORD ENGINEERING PRODUCTS

Jamestown  
SA 5491

All Prices Excluding GST

Phone: 0418 641 566

[www.catford.com.au](http://www.catford.com.au)    [sales@catford.com.au](mailto:sales@catford.com.au)

## Filtration

**\*Spin On Filters \*Filter Heads \*Gauges  
\*Filtration Carts \*Tank Top Return Filters  
\*Pressure Filters \*Indicators**





Lot 25, Mannanarie Road, Jamestown, South Australia 5491

PO Box 178, Jamestown, South Australia 5491



0418 641 566



sales@catford.com.au

Due to fluctuations in the Australian dollar and the economic climate, please be advised that all prices are subject to change.  
Please contact us to confirm pricing.

All prices stated within are exclusive of GST  
(All prices are correct as of January 1st 2024, but Catford Engineering reserve the right to change these prices without notice)

## Filtration

**CATFORD** Jamestown  
SA 5491  
**ENGINEERING**  
**PRODUCTS**

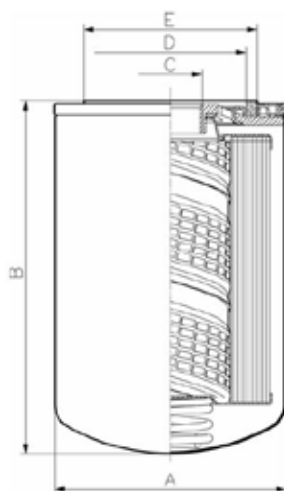
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### Spin On Filters 4"

| Part #      | List Price \$ | Micron            | Can Thread C | Dimensions (mm) |     |      |      |
|-------------|---------------|-------------------|--------------|-----------------|-----|------|------|
|             |               |                   |              | A               | B   | D    | E    |
| CS05000P10A | 55.00         | 10µm nominal      | 3/4" BSPP    | 96              | 148 | 62.5 | 71.5 |
| CS05000P25A | 55.00         | 25µm nominal      | 3/4" BSPP    | 96              | 148 | 62.5 | 71.5 |
| CS05000M90A | 116.00        | 90µm mesh nominal | 3/4" BSPP    | 96              | 148 | 62.5 | 71.5 |
| CS05000A03A | 156.00        | 3µm absolute      | 3/4" BSPP    | 96              | 148 | 62.5 | 71.5 |
| CS05000A06A | 156.00        | 6µm absolute      | 3/4" BSPP    | 96              | 148 | 62.5 | 71.5 |
| CS07000P10A | 70.00         | 10µm nominal      | 3/4" BSPP    | 96              | 210 | 62.5 | 71.5 |
| CS07000P25A | 70.00         | 25µm nominal      | 3/4" BSPP    | 96              | 210 | 62.5 | 71.5 |
| CS07000M90A | 183.00        | 90µm mesh nominal | 3/4" BSPP    | 96              | 210 | 62.5 | 71.5 |
| CS07000A03A | 224.00        | 3µm absolute      | 3/4" BSPP    | 96              | 210 | 62.5 | 71.5 |
| CS07000A06A | 231.00        | 6µm absolute      | 3/4" BSPP    | 96              | 210 | 62.5 | 71.5 |

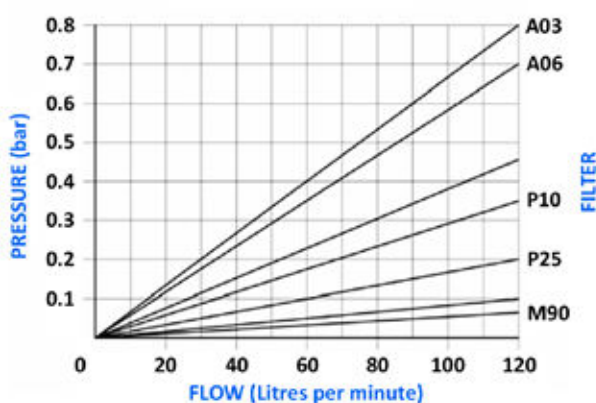
#### CS050



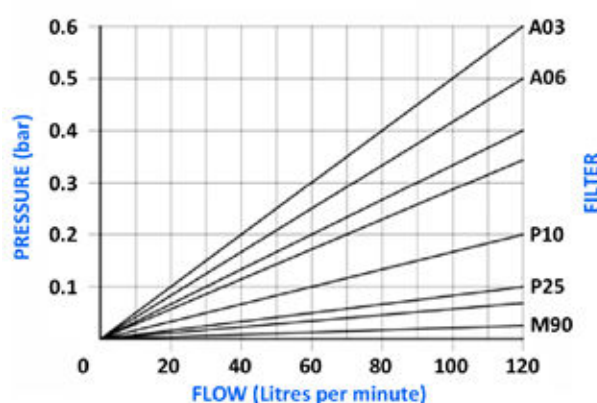
#### CS070



#### CS050 Recommended Maximum Flow



#### CS070 Recommended Maximum Flow



#### PRESSURE DROP

Curves are calculated in accordance with ISO 3968 and are valid for clean filtering elements.

△P changes along with the density in presence of an eddy flow, and along with the dynamic viscosity in presence of a laminar flux. Curves are valid for mineral oils with a density of 0.86 kg/dm<sup>3</sup> and a dynamic viscosity of 30mm<sup>2</sup>/sec (cSt).

When choosing the filtering medium, consider the pressure losses deriving from the flow rate:

- Between **0.05 & 0.1 bar** for suction line
- Up to **0.3 - 0.5 bar** for filters fitted on return line

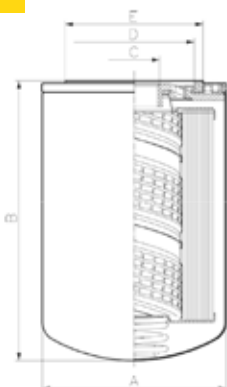
(The total pressure drop is to be calculated by adding up the spin-on filter pressure drop).

### Spin On Filters 5"

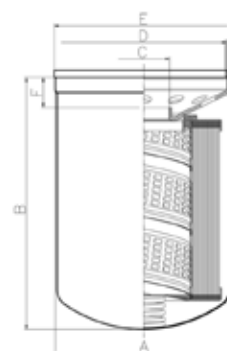
| Part #       | List Price \$ | Micron            | Can Thread C | Dimensions (mm) |     |      |     |
|--------------|---------------|-------------------|--------------|-----------------|-----|------|-----|
|              |               |                   |              | A               | B   | D    | E   |
| CS10000P10A  | 93.00         | 10µm nominal      | 1.1/4" BSPP  | 126             | 180 | 96.5 | 107 |
| CSG10060P10A | 104.00        | 10µm nominal      | 1.1/2" UNF   | 126             | 180 | 120  | 130 |
| CS10000P25A  | 93.00         | 25µm nominal      | 1.1/4" BSPP  | 126             | 180 | 96.5 | 107 |
| CSG10060P25A | 106.00        | 25µm nominal      | 1.1/2" UNF   | 126             | 180 | 120  | 130 |
| CS10000M90A  | 216.00        | 90µm mesh nominal | 1.1/4" BSPP  | 126             | 180 | 96.5 | 107 |
| CS10000A03A  | 282.00        | 3µm absolute      | 1.1/4" BSPP  | 126             | 180 | 96.5 | 107 |
| CS10000A06A  | 282.00        | 6µm absolute      | 1.1/4" BSPP  | 126             | 180 | 96.5 | 107 |
| CS15000P10A  | 132.00        | 10µm nominal      | 1.1/4" BSPP  | 126             | 226 | 96.5 | 107 |
| CS15000P25A  | 132.00        | 25µm nominal      | 1.1/4" BSPP  | 126             | 226 | 96.5 | 107 |
| CS15000M90A  | 269.00        | 90µm mesh nominal | 1.1/4" BSPP  | 126             | 226 | 96.5 | 107 |
| CS15000A03A  | 377.00        | 3µm absolute      | 1.1/4" BSPP  | 126             | 226 | 96.5 | 107 |
| CS15000A06A  | 377.00        | 6µm absolute      | 1.1/4" BSPP  | 126             | 226 | 96.5 | 107 |



#### CS

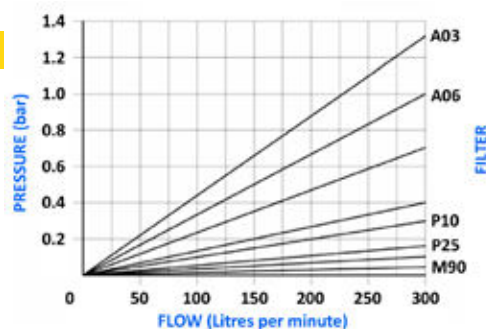


#### CSG

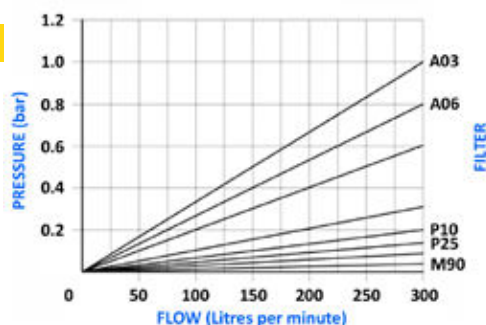


#### Recommended Maximum Flow

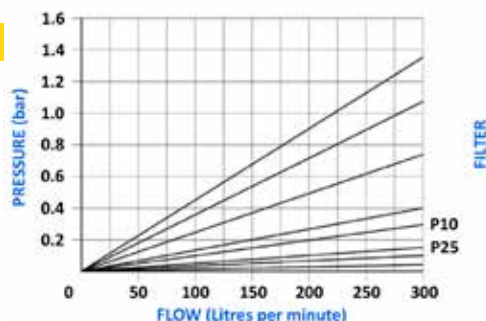
#### CS100



#### CS150



#### CSG100



#### PRESSURE DROP

Curves are calculated in accordance with ISO 3968 and are valid for clean filtering elements.

ΔP changes along with the density in presence of an eddy flow, and along with the dynamic viscosity in presence of a laminar flux. Curves are valid for mineral oils with a density of 0.86 kg/dm<sup>3</sup> and a dynamic viscosity of 30mm<sup>2</sup>/sec (cSt).

When choosing the filtering medium, consider the pressure losses deriving from the flow rate:

- Between **0.05 & 0.1 bar** for suction line
- Up to **0.3 - 0.5 bar** for filters fitted on return line

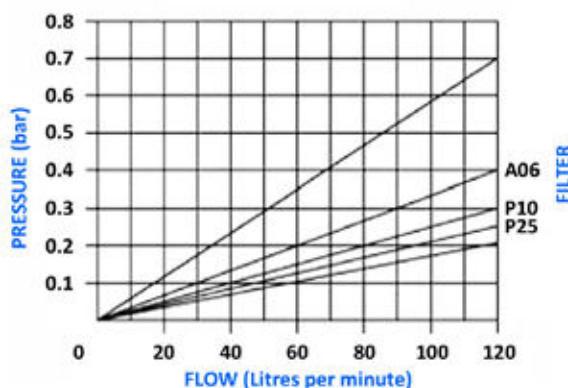
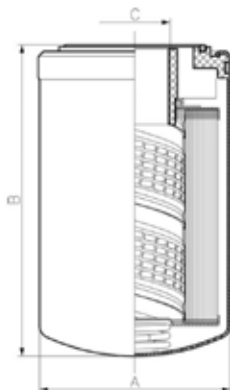
(The total pressure drop is to be calculated by adding up the spin-on filter pressure drop).

### Spin On Filters Medium Pressure

| Part #       | List Price \$ | Micron       | Pressure Rating | Can Thread C  | Dimensions (mm) |     |
|--------------|---------------|--------------|-----------------|---------------|-----------------|-----|
|              |               |              |                 |               | A               | B   |
| CSD06000A06A | 217.00        | 6µm absolute | 35 bar          | 1.3/8"-12 UNO | 95.6            | 180 |
| CSD06000P10A | 120.00        | 10µm nominal | 35 bar          | 1.3/8"-12 UNO | 95.6            | 180 |
| CSD06000P25A | 120.00        | 25µm nominal | 35 bar          | 1.3/8"-12 UNO | 95.6            | 180 |



### Recommended Maximum Flow



### PRESSURE DROP

Curves are calculated in accordance with ISO 3968 and are valid for clean filtering elements.

$\Delta P$  changes along with the density in presence of an eddy flow, and along with the dynamic viscosity in presence of a laminar flux. Curves are valid for mineral oils with a density of 0.86 kg/dm<sup>3</sup> and a dynamic viscosity of 30mm<sup>2</sup>/sec (cSt).

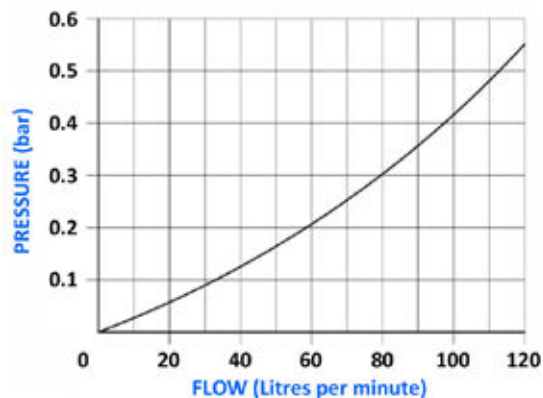
When choosing the filtering medium, consider the pressure losses deriving from the flow rate:

- Up to **0.3 - 0.5 bar** for filters fitted on the return line
- Up to **1 - 1.5 bar** for filters fitted on the pressure line

(The total pressure drop is to be calculated by adding up the spin-on filter pressure drop).

### Filter Heads

| Part #       | List Price \$ | Filter Series | Port Size | Bypass | Differential Indicator |
|--------------|---------------|---------------|-----------|--------|------------------------|
| FSD0602AGV2D | 262.00        | CSD           | 1" BSPP   | 50 psi | 43 psi                 |



### Filter Heads

| Part #       | List Price \$ | Filter Series | Ports       | Bypass | Gauge Port |
|--------------|---------------|---------------|-------------|--------|------------|
| FCS050RAG1TR | 55.00         | CS050/070     | 3/4" BSPP   | 25 psi | 1/8" BSPT  |
| FCS050SAG1TS | 55.00         | CS050/070     | 3/4" BSPP   | 5 psi  | 1/8" BSPT  |
| FCS100RAG1TR | 95.00         | CS100/150     | 1.1/4" BSPP | 25 psi | 1/8" BSPT  |
| FCS100SAG1TS | 95.00         | CS100/150     | 1.1/4" BSPP | 5 psi  | 1/8" BSPT  |

**FCS050**



**FCS100**



### Filter Heads - Dual

| Part #       | List Price \$ | Filter Series | Ports       | Bypass | Gauge Port |
|--------------|---------------|---------------|-------------|--------|------------|
| FCS200RAG1TR | 198.00        | CS100/150     | 1.1/2" BSPP | 25 psi | 1/8" BSPT  |
| FCS200SAG1TS | 198.00        | CS100/150     | 1.1/2" BSPP | 5 psi  | 1/8" BSPT  |
| FCS300RAG1TR | 481.00        | CS100/150     | 1.1/2" BSPP | 25 psi | 1/8" BSPT  |
| FCS300SAG1TS | 481.00        | CS100/150     | 1.1/2" BSPP | 5 psi  | 1/8" BSPT  |

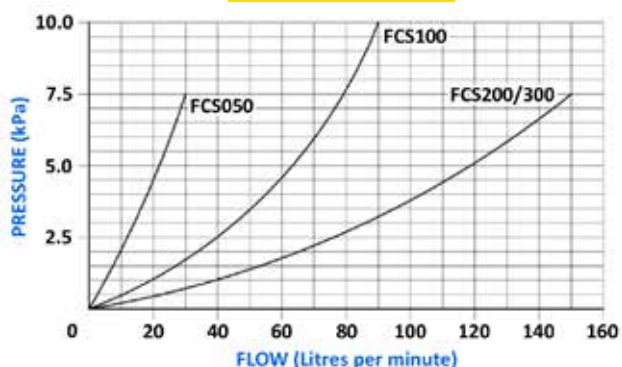
**FCS200**



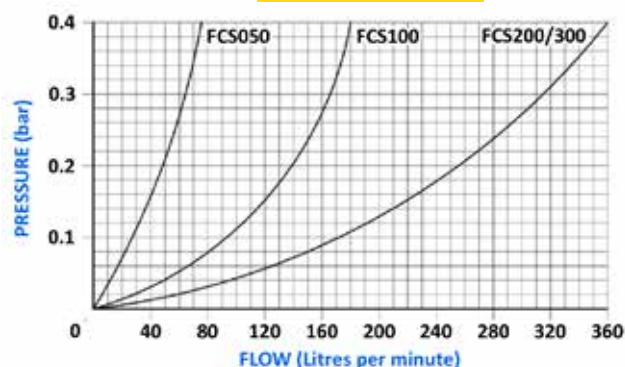
**FCS300**



### SUCTION LINES



### RETURN LINES



### PRESSURE DROP

Curves are calculated in accordance with ISO 3968 and are valid for clean filtering elements.

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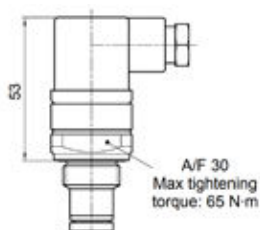
When choosing the filtering medium, consider the pressure losses deriving from the flow rate:

- Between **0.05 & 0.1 bar** for suction line
- Up to **0.3 - 0.5 bar** for filters fitted on return line

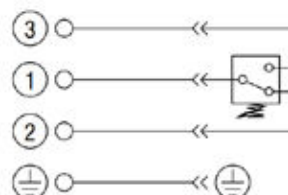
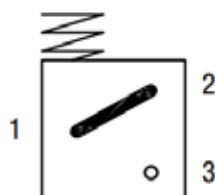
(The total pressure drop is to be calculated by adding up the spin-on filter pressure drop).

### Indicators

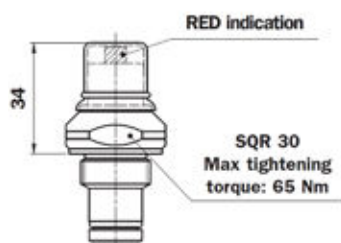
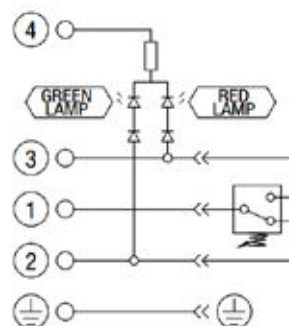
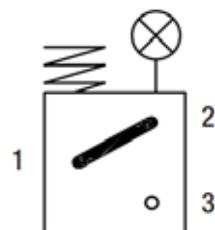
| Part #       | List Price \$ | Thread    | Pressure      | Indicator                     | Connector   |
|--------------|---------------|-----------|---------------|-------------------------------|-------------|
| DEA50HA50P01 | 438.00        | 1/2" BSPP | 5 bar         | Electrical indicator          | DIN         |
| DLA50HA71P01 | 577.00        | 1/2" BSPP | 5 bar         | LED visual indicator          | 5 pin round |
| DLA50HA51P01 | 577.00        | 1/2" BSPP | 5 bar         | LED visual indicator          | DIN         |
| DVM50HP01    | 361.00        | 1/2" BSPP | 5 bar         | Visual Differential Indicator | -           |
| T2-H         | 95.00         | 1/2" BSPP | Blanking plug |                               |             |



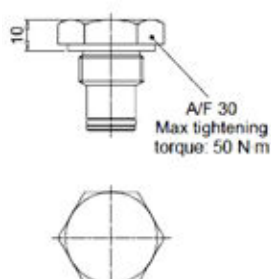
DEA



DLA



DVM



T2-H

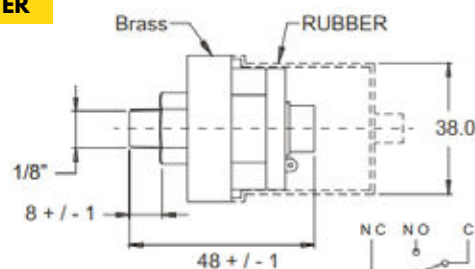


**MPFILTRI**  
MADE IN EUROPE

**Gauges**

| Part #               | List Price \$ | Type       |         | Range      | Thread    |
|----------------------|---------------|------------|---------|------------|-----------|
| 114-01-211-V-000Z-SK | 48.00         | Visual     | Suction | 0-30 Hg    | 1/8" BSPT |
| 114-01-211-002.8J-SK | 48.00         | Visual     | Return  | 0-2.8 bar  | 1/8" BSPT |
| ES                   | 231.00        | Electrical | Suction | 0.15-8 bar | 1/8" BSPT |
| ER                   | 179.00        | Electrical | Return  | 0.5-8 bar  | 1/8" BSPT |

**114-01**

**ES/ER**

**Transfer Cart**

| Part #  | List Price \$ | Description    |                                               |
|---------|---------------|----------------|-----------------------------------------------|
| PTU55/6 | 1867.00       | Filters        | Transfer unit only - no filtration            |
|         |               | Electric Motor | 0.55kW 4-pole single phase with on/off switch |
|         |               | Gear Pump      | Vivoil 5.9cc Group 1, 35 bar                  |
|         |               | Weight         | 20kg                                          |
|         |               | Hoses          | 2 mtr hoses                                   |
|         |               | Other          | Short lead 10amp plug, overload protection    |



### Filtration Cart

| Part #          | List Price \$ | Description                                                 |                                                                           |
|-----------------|---------------|-------------------------------------------------------------|---------------------------------------------------------------------------|
| HNC11/20/M90/10 | 4661.00       | Inlet Filter                                                | CS15000M90A* 90µm nominal - 5psi bypass (includes visual clogging gauge)  |
|                 |               | 14727.00                                                    | CS15000P10A* 10µm nominal - 25psi bypass (includes visual clogging gauge) |
|                 |               | Electric Motor                                              | 1.1kw 1440rpm with on/off switch                                          |
|                 |               | Gear Pump                                                   | Vivoil 16.8cc Group 2                                                     |
|                 |               | Output Flow                                                 | 24 lpm                                                                    |
|                 |               | Inlet Hose                                                  | 1.1/4" diameter, 2.2mtr length                                            |
|                 |               | Outlet Hose                                                 | 1" diameter, 2.2mtr length                                                |
| ICMWMKUG12.0    | 14727.00      | ICM2.0 - optional inline contamination monitor by MP Filtri |                                                                           |

\* For replacement filter see page 358



- Filtration cart configuration has been based on usage with 46 grade hydraulic oil at minimum ambient temperature of 20°C.
- Operation outside these parameters could result in filtration system bypass.
- For special applications please contact us for custom configuration options.



HNC11

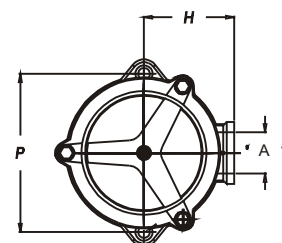
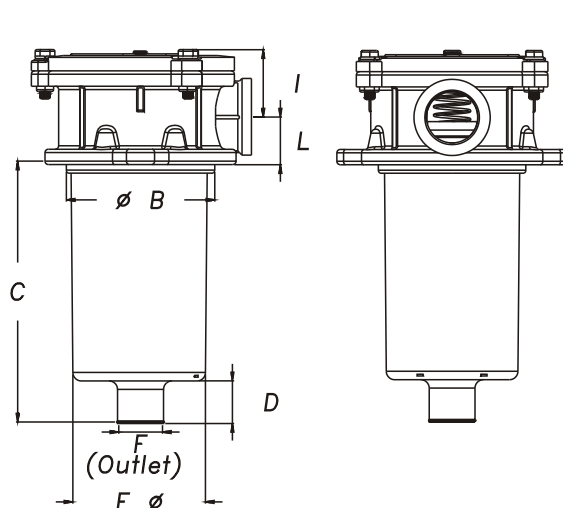


ICM

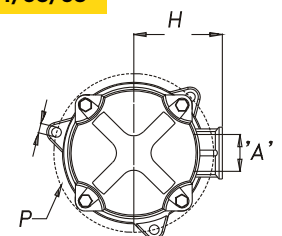


### Tank Top Return Filters - TIFP Series

| Part #          | List Price \$ | Port Size (A) | Micron        | Max Flow | Bypass | Dimensions (mm) |     |    |     |    |    |    |    |     |
|-----------------|---------------|---------------|---------------|----------|--------|-----------------|-----|----|-----|----|----|----|----|-----|
|                 |               |               |               |          |        | B               | C   | D  | E   | F  | H  | I  | L  | P   |
| TIFP-04B-P10-R4 | 98.00         | 1/2" BSPP     | 10 µm nominal | 25 lpm   | 25 psi | 68              | 89  | 15 | 58  | 19 | 53 | 27 | 24 | 90  |
| TIFP-06B-P10-R4 | 136.00        | 3/4" BSPP     | 10 µm nominal | 40 lpm   | 25 psi | 87              | 104 | 25 | 78  | 22 | 65 | 36 | 28 | 115 |
| TIFP-08B-P10-R4 | 143.00        | 1" BSPP       | 10 µm nominal | 50 lpm   | 25 psi | 87              | 153 | 25 | 78  | 22 | 65 | 36 | 28 | 115 |
| TIFP-10B-P10-R4 | 339.00        | 1.1/4" BSPP   | 10 µm nominal | 100 lpm  | 25 psi | 129             | 278 | 40 | 110 | 39 | 97 | 47 | 37 | 175 |



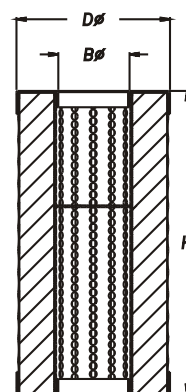
TIFP-04/06/08



TIFP-10

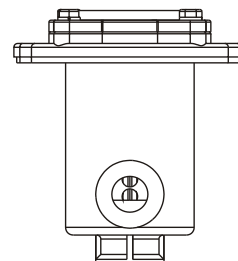
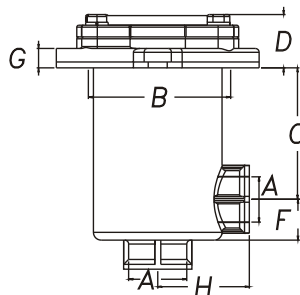
### Tank Top Return Filter Elements - TIFP Series

|     | Part #     | Filter Series | List Price \$ | Micron         | Max Flow | Dimensions (mm) |      |     |
|-----|------------|---------------|---------------|----------------|----------|-----------------|------|-----|
|     |            |               |               |                |          | D               | B    | H   |
| NEW | TIE-04-A10 | TIFP-04       | 48.00         | 10 µm absolute | 25 lpm   | 52              | 25.5 | 72  |
|     | TIE-04-P10 | TIFP-04       | 24.00         | 10 µm nominal  | 25 lpm   | 52              | 25.5 | 72  |
|     | TIE-04-P25 | TIFP-04       | 24.00         | 25 µm nominal  | 40 lpm   | 52              | 25.5 | 72  |
| NEW | TIE-06-A10 | TIFP-06       | 55.00         | 10 µm absolute | 40 lpm   | 66              | 30.5 | 85  |
|     | TIE-06-P10 | TIFP-06       | 33.00         | 10 µm nominal  | 40 lpm   | 66              | 30.5 | 85  |
|     | TIE-06-P25 | TIFP-06       | 33.00         | 25 µm nominal  | 50 lpm   | 66              | 30.5 | 85  |
| NEW | TIE-08-A10 | TIFP-08       | 72.00         | 10 µm absolute | 50 lpm   | 66              | 30.5 | 130 |
|     | TIE-08-P10 | TIFP-08       | 38.00         | 10 µm nominal  | 50 lpm   | 66              | 30.5 | 130 |
|     | TIE-08-P25 | TIFP-08       | 38.00         | 25 µm nominal  | 65 lpm   | 66              | 30.5 | 130 |
| NEW | TIE-10-A10 | TIFP-10       | 182.00        | 10 µm absolute | 100 lpm  | 90              | 40.5 | 245 |
|     | TIE-10-P10 | TIFP-10       | 87.00         | 10 µm nominal  | 100 lpm  | 90              | 40.5 | 245 |
|     | TIE-10-P25 | TIFP-10       | 87.00         | 25 µm nominal  | 120 lpm  | 90              | 40.5 | 245 |

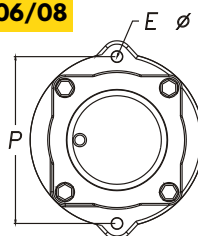


### Tank Top Return Filters - FIF Series

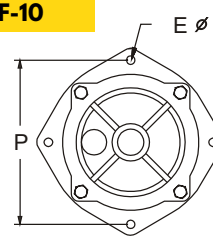
| Part #         | List Price \$ | Port Size (A) | Micron        | Max Flow | Bypass | Dimensions (mm) |     |    |   |    |    |     |
|----------------|---------------|---------------|---------------|----------|--------|-----------------|-----|----|---|----|----|-----|
|                |               |               |               |          |        | B               | C   | D  | E | F  | G  | P   |
| FIF-04B-P10-R4 | 121.00        | 1/2" BSPP     | 10 µm nominal | 25 lpm   | 25 psi | 80              | 71  | 23 | 7 | 34 | 7  | 100 |
| FIF-06B-P10-R4 | 166.00        | 3/4" BSPP     | 10 µm nominal | 40 lpm   | 25 psi | 105             | 68  | 24 | 9 | 48 | 10 | 126 |
| FIF-08B-P10-R4 | 196.00        | 1" BSPP       | 10 µm nominal | 50 lpm   | 25 psi | 105             | 110 | 24 | 9 | 55 | 10 | 126 |
| FIF-10B-P10-R4 | 433.00        | 1.1/4" BSPP   | 10 µm nominal | 100 lpm  | 25 psi | 156             | 190 | 35 | 9 | 62 | 14 | 175 |



FIF-04/06/08

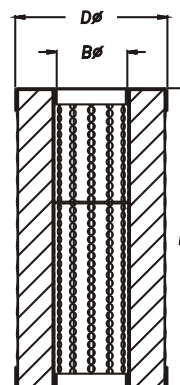


FIF-10



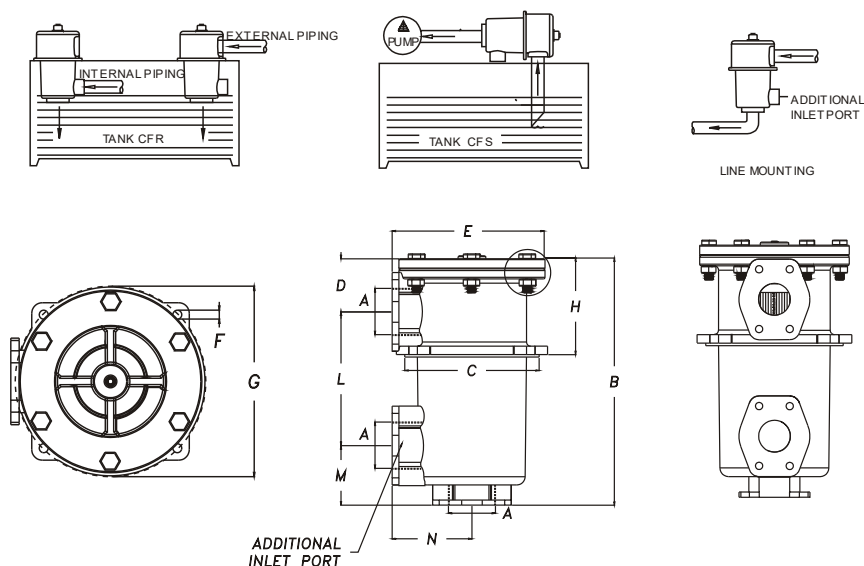
### Tank Top Return Filter Elements - FIF Series

|     | Part #     | Filter Series | List Price \$ | Micron         | Max Flow | Dimensions (mm) |      |     |
|-----|------------|---------------|---------------|----------------|----------|-----------------|------|-----|
|     |            |               |               |                |          | D               | B    | H   |
| NEW | FIE-04-A10 | FIF-04        | 48.00         | 10 µm absolute | 20 lpm   | 52              | 25.5 | 72  |
|     | FIE-04-P10 | FIF-04        | 25.00         | 10 µm nominal  | 25 lpm   | 52              | 25.5 | 72  |
|     | FIE-04-P25 | FIF-04        | 25.00         | 25 µm nominal  | 40 lpm   | 52              | 25.5 | 72  |
| NEW | FIE-06-A10 | FIF-06        | 55.00         | 10 µm absolute | 40 lpm   | 66              | 30.5 | 85  |
|     | FIE-06-P10 | FIF-06        | 33.00         | 10 µm nominal  | 40 lpm   | 66              | 30.5 | 85  |
|     | FIE-06-P25 | FIF-06        | 33.00         | 25 µm nominal  | 50 lpm   | 66              | 30.5 | 85  |
| NEW | FIE-08-A10 | FIF-08        | 72.00         | 10 µm absolute | 50 lpm   | 66              | 30.5 | 130 |
|     | FIE-08-P10 | FIF-08        | 38.00         | 10 µm nominal  | 50 lpm   | 66              | 30.5 | 130 |
|     | FIE-08-P25 | FIF-08        | 38.00         | 25 µm nominal  | 65 lpm   | 66              | 30.5 | 130 |
| NEW | FIE-10-A10 | FIF-10        | 182.00        | 10 µm absolute | 100 lpm  | 95              | 40.5 | 200 |
|     | FIE-10-P10 | FIF-10        | 81.00         | 10 µm nominal  | 100 lpm  | 95              | 40.5 | 200 |
|     | FIE-10-P25 | FIF-10        | 81.00         | 25 µm nominal  | 120 lpm  | 95              | 40.5 | 200 |

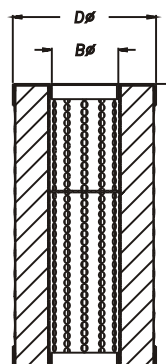


**Tank Top Return Filters - CFR Series**

| Part #             | List Price \$ | Port Size (A) | Micron        | Max Flow | Bypass | Dimensions (mm) |     |    |     |     |     |     |     |    |    |
|--------------------|---------------|---------------|---------------|----------|--------|-----------------|-----|----|-----|-----|-----|-----|-----|----|----|
|                    |               |               |               |          |        | B               | C   | D  | E   | F   | G   | H   | L   | M  | N  |
| CFR-025-04B-P10-R4 | 154.00        | 1/2" BSPP     | 10 µm nominal | 40 lpm   | 25 psi | 117             | 83  | 29 | 98  | 5.6 | 93  | 46  | 56  | 33 | 52 |
| CFR-040-06B-P10-R4 | 296.00        | 3/4" BSPP     | 10 µm nominal | 60 lpm   | 25 psi | 176             | 121 | 43 | 117 | 6.5 | 138 | 77  | 110 | 26 | 58 |
| CFR-100-08B-P10-R4 | 446.00        | 1" BSPP       | 10 µm nominal | 130 lpm  | 25 psi | 257             | 134 | 64 | 143 | 6.5 | 154 | 113 | 140 | 52 | 71 |
| CFR-250-12B-P10-R4 | 659.00        | 1.1/2" BSPP   | 10 µm nominal | 150 lpm  | 25 psi | 300             | 161 | 65 | 182 | 8.5 | 180 | 117 | 159 | 77 | 88 |


**Tank Top Return Filter Elements - CFR Series**

|            | Part #     | Filter Series | List Price \$ | Micron         | Max Flow | Dimensions (mm) |      |     |
|------------|------------|---------------|---------------|----------------|----------|-----------------|------|-----|
|            |            |               |               |                |          | D               | B    | H   |
| <b>NEW</b> | CE-025-A10 | CFR-025       | 48.00         | 10 µm absolute | 40 lpm   | 52              | 25.5 | 72  |
|            | CE-025-P10 | CFR-025       | 28.00         | 10 µm nominal  | 40 lpm   | 52              | 25.5 | 72  |
|            | CE-025-P25 | CFR-025       | 28.00         | 25 µm nominal  | 45 lpm   | 52              | 25.5 | 72  |
| <b>NEW</b> | CE-025-A10 | CFR-040       | 48.00         | 10 µm absolute | 60 lpm   | 70              | 34.5 | 86  |
|            | CE-040-P10 | CFR-040       | 35.00         | 10 µm nominal  | 60 lpm   | 70              | 34.5 | 86  |
|            | CE-040-P25 | CFR-040       | 35.00         | 25 µm nominal  | 85 lpm   | 70              | 34.5 | 86  |
| <b>NEW</b> | CE-100-A10 | CFR-100       | 80.00         | 10 µm absolute | 130 lpm  | 70              | 34.5 | 130 |
|            | CE-100-P10 | CFR-100       | 47.00         | 10 µm nominal  | 130 lpm  | 70              | 34.5 | 130 |
|            | CE-100-P25 | CFR-100       | 47.00         | 25 µm nominal  | 140 lpm  | 70              | 34.5 | 130 |
| <b>NEW</b> | CE-250-A10 | CFR-250       | 188.00        | 10 µm absolute | 150 lpm  | 100             | 51   | 210 |
|            | CE-250-P10 | CFR-250       | 87.00         | 10 µm nominal  | 150 lpm  | 100             | 51   | 210 |
|            | CE-250-P25 | CFR-250       | 87.00         | 25 µm nominal  | 180 lpm  | 100             | 51   | 210 |

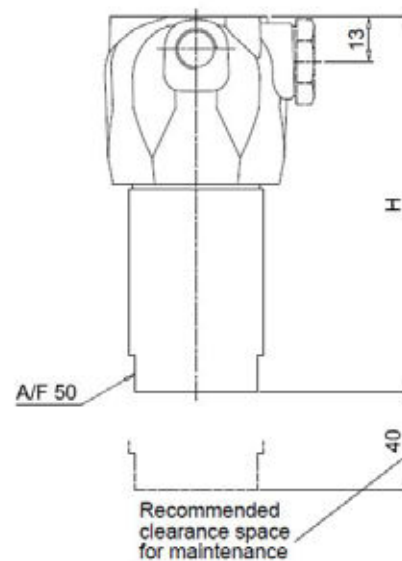
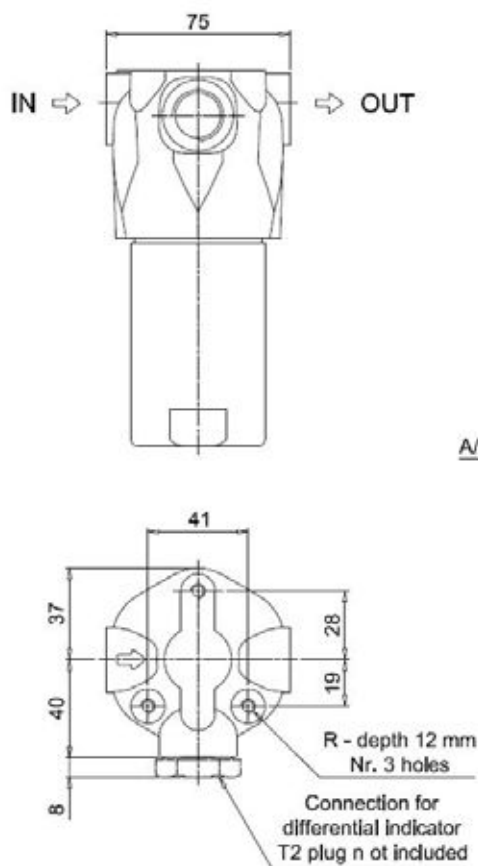


### Pressure Filter FHP 010 Series

| Part #             | List Price \$ | Port Size | Micron         | Max Pressure | Bypass |
|--------------------|---------------|-----------|----------------|--------------|--------|
| FHP0104BAD2A03NP01 | 1165.00       | 3/8" BSPP | 3 µm absolute  | 420 bar      | 6 bar  |
| FHP0104BAD2A06NP01 | 1153.00       | 3/8" BSPP | 6 µm absolute  | 420 bar      | 6 bar  |
| FHP0104BAD2A10NP01 | 1145.00       | 3/8" BSPP | 10 µm absolute | 420 bar      | 6 bar  |
| FHP0104BAD2A25NP01 | 1140.00       | 3/8" BSPP | 25 µm absolute | 420 bar      | 6 bar  |

Refer to graphs below for flow rates

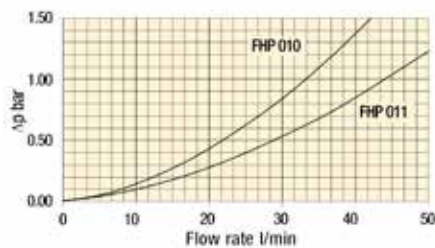
**MPFILTRI**  
MADE IN EUROPE



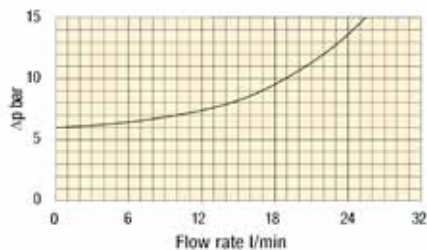
#### FHP 010 Series Dimensions

|            |                     |
|------------|---------------------|
| Base Width | 55mm                |
| Head Width | 75mm                |
| Height (H) | 203mm               |
| Weight     | 3.13kg              |
| Volume     | 0.20dm <sup>3</sup> |

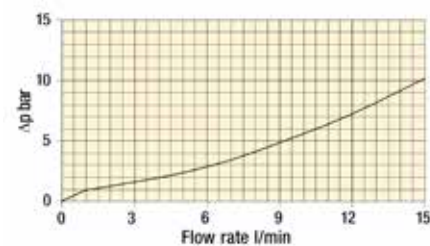
FILTER HOUSING PRESSURE DROP



BYPASS VALVE PRESSURE DROP



FILTER HOUSING WITH CHECK VALVE



Graph curves are plotted using mineral oil with density of 0.86kg/dm<sup>3</sup> to ISO 3968.  
Δp varies proportional with density.

### Filter housing materials

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Bypass valve:  
AISI 316L (FHP 010 - 011)  
Brass (FHP 065 - 135 - 320)  
Steel (FHP 500)
- Reverse Flow: Steel (FHP 320 - FHP 500)
- Check valve: Steel

### Pressure

- Working pressure: 42 MPa (420 bar)
- Test pressure: 63 MPa (630 bar)
- Burst pressure: 126 MPa (1260 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 42 MPa (420 bar)

### Bypass valve

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

### $\Delta p$ element type

- Microfibre filter elements - series N: 20 bar
- Microfibre filter elements - series R: 20 bar (not available for FHP 010-011 and FHP 500)
- Microfibre filter elements - series H: 210 bar
- Microfibre filter elements - series S: 210 bar (only for FHP 500)
- 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

FHP 010 - 065 - 135 - 500:  
In-line Inlet/Outlet  
FHP 011 - 320:  
90° Inlet/Outlet

### Note

FHP filters are provided for vertical mounting

### Filter Elements

| Part #         | List Price \$ | Micron         |
|----------------|---------------|----------------|
| HP0114A03ANP01 | 301.00        | 3 µm absolute  |
| HP0114A06ANP01 | 294.00        | 6 µm absolute  |
| HP0114A10ANP01 | 314.00        | 10 µm absolute |
| HP0114A25ANP01 | 298.00        | 25 µm absolute |

### Indicators

| Part #       | List Price \$ | Type          |
|--------------|---------------|---------------|
| DEA50HA50P01 | 438.00        | Electrical    |
| DVM50HP01    | 361.00        | Visual        |
| T2-H         | 95.00         | Blanking plug |

**MPFILTRI**  
MADE IN EUROPE



**DEA**



**DVM**



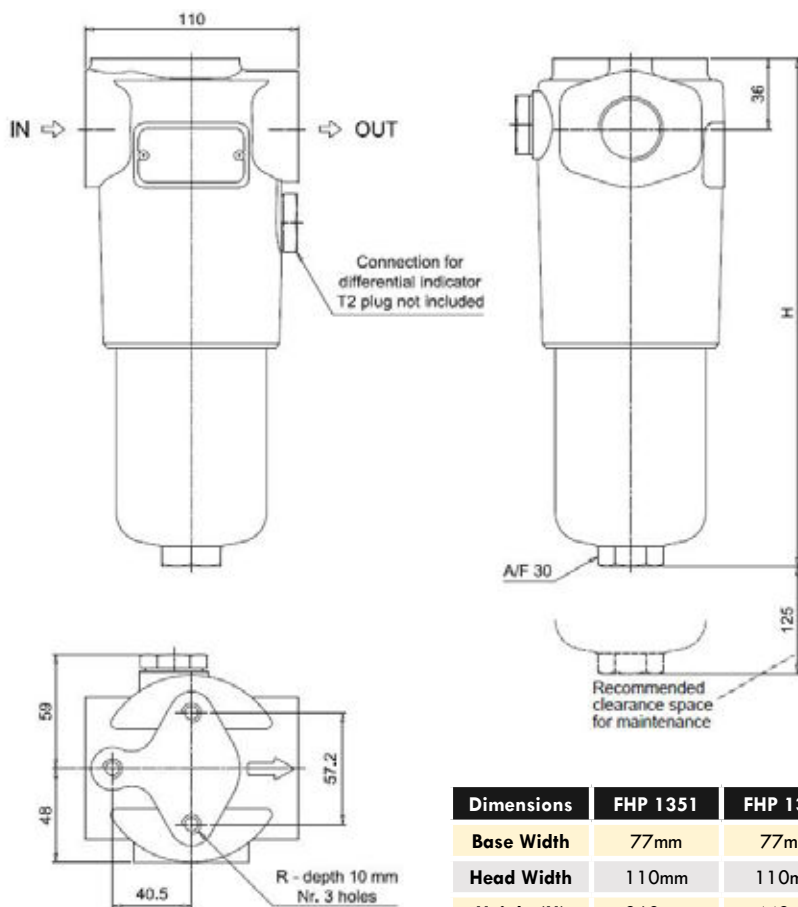
**T2-H**

### Pressure Filter FHP 135 Series

| Part #             | List Price \$ | Port Size | Micron         | Max Pressure | Bypass |
|--------------------|---------------|-----------|----------------|--------------|--------|
| FHP1351BAG2A03NP01 | 1898.00       | 1" BSPP   | 3 µm absolute  | 420 bar      | 6 bar  |
| FHP1351BAG2A06NP01 | 1873.00       | 1" BSPP   | 6 µm absolute  | 420 bar      | 6 bar  |
| FHP1351BAG2A10NP01 | 1808.00       | 1" BSPP   | 10 µm absolute | 420 bar      | 6 bar  |
| FHP1351BAG2A25NP01 | 1777.00       | 1" BSPP   | 25 µm absolute | 420 bar      | 6 bar  |
| FHP1353BAG2A03NP01 | 2504.00       | 1" BSPP   | 3 µm absolute  | 420 bar      | 6 bar  |
| FHP1353BAG2A06NP01 | 2486.00       | 1" BSPP   | 6 µm absolute  | 420 bar      | 6 bar  |
| FHP1353BAG2A10NP01 | 2401.00       | 1" BSPP   | 10 µm absolute | 420 bar      | 6 bar  |
| FHP1353BAG2A25NP01 | 2273.00       | 1" BSPP   | 25 µm absolute | 420 bar      | 6 bar  |

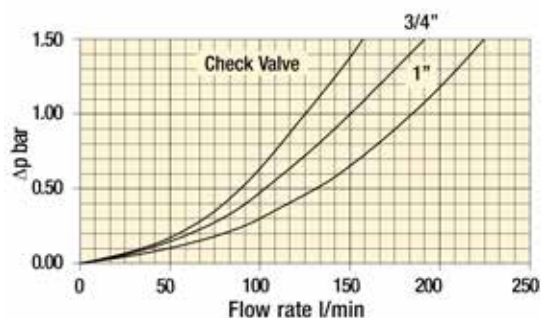
Refer to graphs below for flow rates

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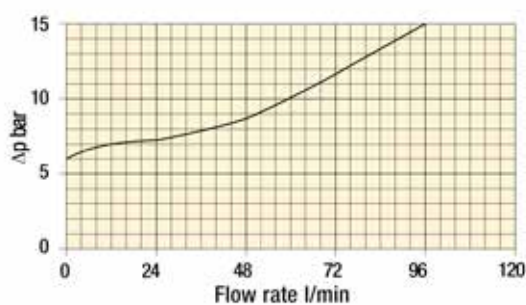


| Dimensions | FHP 1351            | FHP 1353            |
|------------|---------------------|---------------------|
| Base Width | 77mm                | 77mm                |
| Head Width | 110mm               | 110mm               |
| Height (H) | 260mm               | 448mm               |
| Weight     | 7.11kg              | 9.76kg              |
| Volume     | 0.43dm <sup>3</sup> | 0.97dm <sup>3</sup> |

**FILTER HOUSING PRESSURE DROP**



**BYPASS VALVE PRESSURE DROP**



Graph curves are plotted using mineral oil with density of 0.86kg/dm<sup>3</sup> to ISO 3968.  
Δp varies proportional with density.

**Filter housing materials**

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Bypass valve:  
AISI 316L (FHP 010 - 011)  
Brass (FHP 065 - 135 - 320)  
Steel (FHP 500)
- Reverse Flow: Steel (FHP 320 - FHP 500)
- Check valve: Steel

**Pressure**

- Working pressure: 42 MPa (420 bar)
- Test pressure: 63 MPa (630 bar)
- Burst pressure: 126 MPa (1260 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 42 MPa (420 bar)

**Bypass valve**

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

 **$\Delta p$  element type**

- Microfibre filter elements - series N: 20 bar
- Microfibre filter elements - series R: 20 bar (not available for FHP 010-011 and FHP 500)
- Microfibre filter elements - series H: 210 bar
- Microfibre filter elements - series S: 210 bar (only for FHP 500)
- 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**

FHP 010 - 065 - 135 - 500:  
In-line Inlet/Outlet  
FHP 011 - 320:  
90° Inlet/Outlet

**Note**

FHP filters are provided for vertical mounting

**Filter Elements**

| Part #         | List Price \$ | Micron         |
|----------------|---------------|----------------|
| HP1351A03ANP01 | 395.00        | 3 µm absolute  |
| HP1351A06ANP01 | 377.00        | 6 µm absolute  |
| HP1351A10ANP01 | 315.00        | 10 µm absolute |
| HP1351A25ANP01 | 262.00        | 25 µm absolute |
| HP1353A03ANP01 | 713.00        | 3 µm absolute  |
| HP1353A06ANP01 | 697.00        | 6 µm absolute  |
| HP1353A10ANP01 | 560.00        | 10 µm absolute |
| HP1353A25ANP01 | 448.00        | 25 µm absolute |

**Indicators**

| Part #       | List Price \$ | Type          |
|--------------|---------------|---------------|
| DEA50HA50P01 | 438.00        | Electrical    |
| DVM50HP01    | 361.00        | Visual        |
| T2-H         | 95.00         | Blanking plug |

**MPFILTRI**  
MADE IN EUROPE



**DEA**



**DVM**



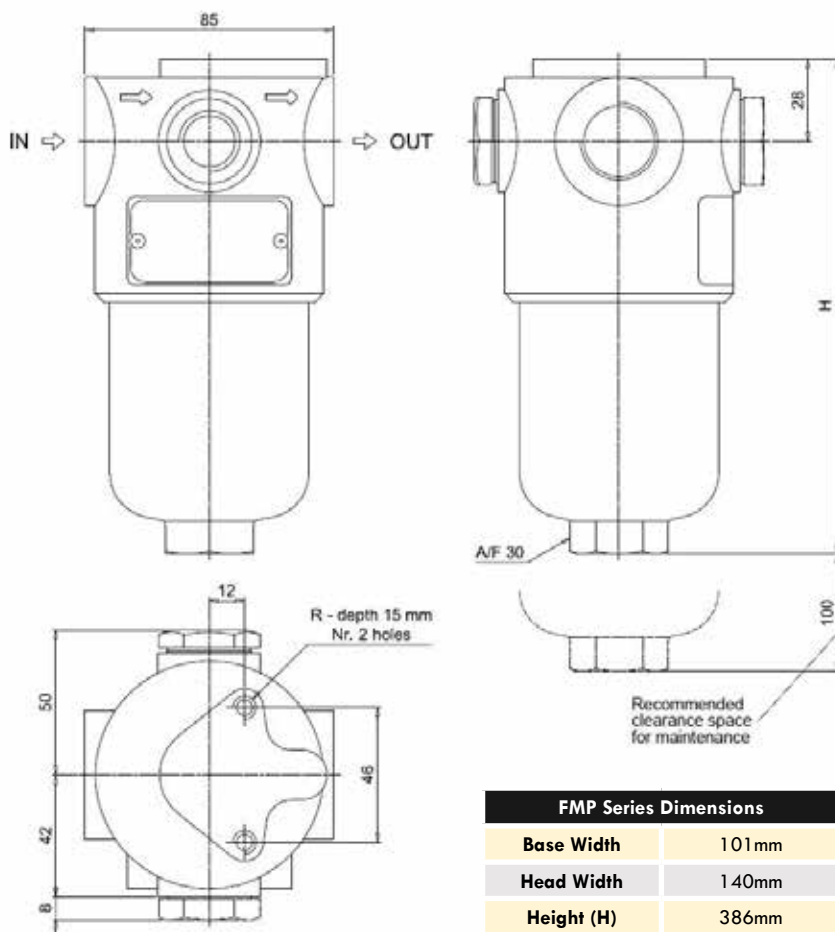
**T2-H**

### Pressure Filter FMP Series

| Part #             | List Price \$ | Port Size   | Micron         | Max Pressure | Bypass |
|--------------------|---------------|-------------|----------------|--------------|--------|
| FMP3202BAG1A03NP01 | 3093.00       | 1.1/4" BSPP | 3 µm absolute  | 320 bar      | 6 bar  |
| FMP3202BAG1A06NP01 | 3080.00       | 1.1/4" BSPP | 6 µm absolute  | 320 bar      | 6 bar  |
| FMP3202BAG1A10NP01 | 2928.00       | 1.1/4" BSPP | 10 µm absolute | 320 bar      | 6 bar  |
| FMP3202BAG1A25NP01 | 2777.00       | 1.1/4" BSPP | 25 µm absolute | 320 bar      | 6 bar  |

Refer to graphs below for flow rates

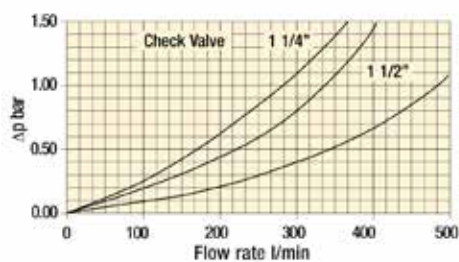
**MPFILTRI**  
MADE IN EUROPE



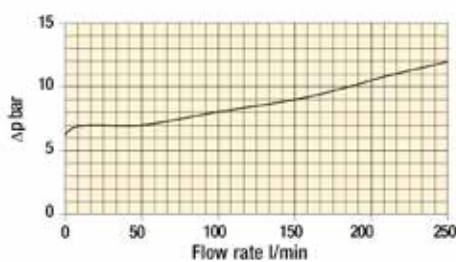
FMP Series Dimensions

|            |                     |
|------------|---------------------|
| Base Width | 101mm               |
| Head Width | 140mm               |
| Height (H) | 386mm               |
| Weight     | 13.08kg             |
| Volume     | 1.75dm <sup>3</sup> |

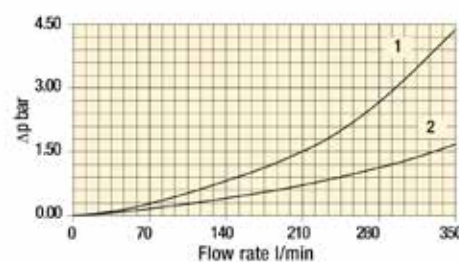
FILTER HOUSING PRESSURE DROP



BYPASS VALVE PRESSURE DROP



FILTER HOUSING WITH CHECK VALVE



Graph curves are plotted using mineral oil with density of 0.86kg/dm<sup>3</sup> to ISO 3968.  
Δp varies proportional with density.

### Filter housing materials

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Bypass valve: Brass
- Reverse Flow: Steel (only for series FMP 320)
- Check valve: Steel

### Pressure

- Working pressure: 32 MPa (320 bar)
- Test pressure: 48 MPa (480 bar)
- Burst pressure: 96 MPa (960 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 32 MPa (320 bar)

### Bypass valve

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

### $\Delta p$ element type

- Microfibre filter elements - series N-R: 20 bar
- Microfibre filter elements - series H-S: 210 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

In-line Inlet/Outlet

### Note

FMP filters are provided for vertical mounting

### Filter Elements

| Part #         | List Price \$ | Micron         |
|----------------|---------------|----------------|
| HP3202A03ANP01 | 914.00        | 3 µm absolute  |
| HP3202A06ANP01 | 895.00        | 6 µm absolute  |
| HP3202A10ANP01 | 735.00        | 10 µm absolute |
| HP3202A25ANP01 | 574.00        | 25 µm absolute |

### Indicators

| Part #       | List Price \$ | Type          |
|--------------|---------------|---------------|
| DEA50HA50P01 | 438.00        | Electrical    |
| DVM50HP01    | 361.00        | Visual        |
| T2-H         | 95.00         | Blanking plug |

**MPFILTRI**  
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DEA



DVM



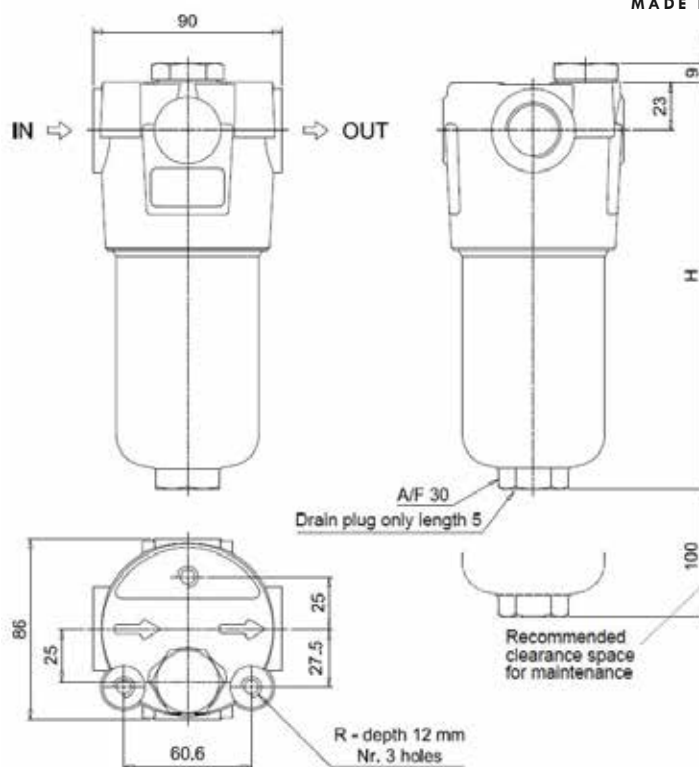
T2-H

### Pressure Filter FMM Series

| Part #            | List Price \$ | Port Size | Micron         | Max Pressure | Bypass |
|-------------------|---------------|-----------|----------------|--------------|--------|
| FMM0502BACA03NP01 | 953.00        | 1/2" BSPP | 3 µm absolute  | 420 bar      | 6 bar  |
| FMM0502BACA06NP01 | 945.00        | 1/2" BSPP | 6 µm absolute  | 420 bar      | 6 bar  |
| FMM0502BACA10NP01 | 897.00        | 1/2" BSPP | 10 µm absolute | 420 bar      | 6 bar  |
| FMM0502BACA25NP01 | 849.00        | 1/2" BSPP | 25 µm absolute | 420 bar      | 6 bar  |
| FMM0502BADA03NP01 | 953.00        | 3/4" BSPP | 3 µm absolute  | 420 bar      | 6 bar  |
| FMM0502BADA06NP01 | 945.00        | 3/4" BSPP | 6 µm absolute  | 420 bar      | 6 bar  |
| FMM0502BADA10NP01 | 897.00        | 3/4" BSPP | 10 µm absolute | 420 bar      | 6 bar  |
| FMM0502BADA25NP01 | 849.00        | 3/4" BSPP | 25 µm absolute | 420 bar      | 6 bar  |
| FMM0504BACA03NP01 | 1140.00       | 1/2" BSPP | 3 µm absolute  | 420 bar      | 6 bar  |
| FMM0504BACA06NP01 | 1128.00       | 1/2" BSPP | 6 µm absolute  | 420 bar      | 6 bar  |
| FMM0504BACA10NP01 | 1061.00       | 1/2" BSPP | 10 µm absolute | 420 bar      | 6 bar  |
| FMM0504BACA25NP01 | 982.00        | 1/2" BSPP | 25 µm absolute | 420 bar      | 6 bar  |
| FMM0504BADA03NP01 | 1140.00       | 3/4" BSPP | 3 µm absolute  | 420 bar      | 6 bar  |
| FMM0504BADA06NP01 | 1128.00       | 3/4" BSPP | 6 µm absolute  | 420 bar      | 6 bar  |
| FMM0504BADA10NP01 | 1061.00       | 3/4" BSPP | 10 µm absolute | 420 bar      | 6 bar  |
| FMM0504BADA25NP01 | 982.00        | 3/4" BSPP | 25 µm absolute | 420 bar      | 6 bar  |

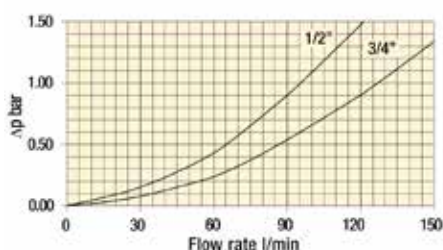
Refer to graphs below for flow rates

**MP FILTRI**  
MADE IN EUROPE

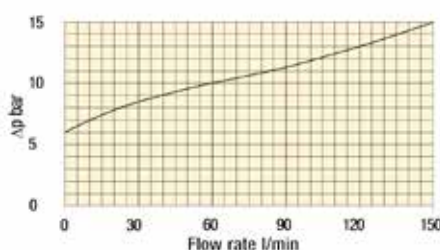


| Dimensions | FMM 0502            | FMM 0504            |
|------------|---------------------|---------------------|
| Base Width | 77mm                | 77mm                |
| Head Width | 110mm               | 110mm               |
| Height (H) | 195mm               | 285mm               |
| Weight     | 7.11kg              | 9.76kg              |
| Volume     | 0.43dm <sup>3</sup> | 0.97dm <sup>3</sup> |

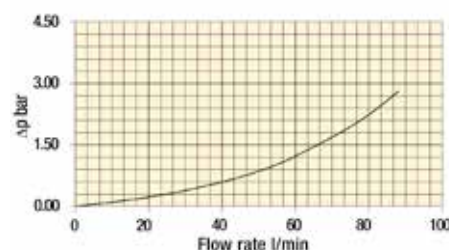
**FILTER HOUSING PRESSURE DROP**



**BYPASS VALVE PRESSURE DROP**



**FILTER HOUSING WITH CHECK VALVE**



Graph curves are plotted using mineral oil with density of 0.86kg/dm<sup>3</sup> to ISO 3968.  
Δp varies proportional with density.

**FMM 050**

Maximum pressure up to 420 bar  
Flow rate up to 152 l/min

**Filter housing materials**

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Bypass valve: Steel

**Pressure**

- Working pressure: 42 MPa (420 bar)
- Test pressure: 63 MPa (630 bar)
- Burst pressure: 126 MPa (1260 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 42 MPa (420 bar)

**FMM 050**

**Bypass valve**

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

**$\Delta p$  element type**

- Microfibre filter elements - series N: 20 bar
- Microfibre filter elements - series S: 210 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**

In-line Inlet/Outlet

**Note**

Both FMM and FHA filters are provided for vertical mounting



**Filter Elements FMM 0502**

| Part #         | List Price \$ | Micron         |
|----------------|---------------|----------------|
| HP0502A03ANP01 | 304.00        | 3 µm absolute  |
| HP0502A06ANP01 | 298.00        | 6 µm absolute  |
| HP0502A10ANP01 | 244.00        | 10 µm absolute |
| HP0502A25ANP01 | 197.00        | 25 µm absolute |

**Filter Elements FMM 0504**

| Part #         | List Price \$ | Micron         |
|----------------|---------------|----------------|
| HP0504A03ANP01 | 472.00        | 3 µm absolute  |
| HP0504A06ANP01 | 463.00        | 6 µm absolute  |
| HP0504A10ANP01 | 387.00        | 10 µm absolute |
| HP0504A25ANP01 | 305.00        | 25 µm absolute |

**Indicators**

| Part #       | List Price \$ | Type          |
|--------------|---------------|---------------|
| DEA50HA50P01 | 438.00        | Electrical    |
| DVM50HP01    | 361.00        | Visual        |
| T2-H         | 95.00         | Blanking plug |

**MPALTRI**  
MADE IN EUROPE



**DEA**



**DVM**



**T2-H**