

FVI

Vacuum Filters



The FVI range is compatible with pneumatic vacuum generators (venturi) or electric vacuum pumps (the FVI 2 model is suitable for a suction turbine). Each filter is fitted with an interchangeable cartridge treated to guarantee long life expectancy for the whole unit. The filtering element consists of a 5 micron filter (made of paper for version C), which is sufficient to protect pumps and venturi under normal operating conditions.

Note: For filtration leaving large deposits (powder), mount the filter horizontally or upside down.

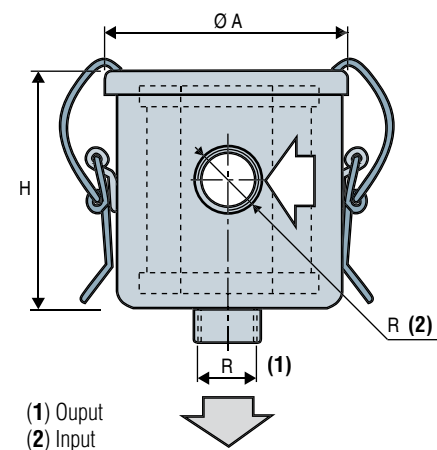
Important: These filters are designed for vacuum. They cannot withstand pressure greater than atmospheric pressure.

Filter cartridge available in 3 versions: paper, polyester and stainless steel.

Characteristics

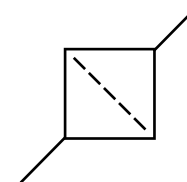
| Models | A | H | R | Flow rate (Nl/min) | Weight (g) |
|-----------|-----|-----|----------|--------------------|------------|
| FVI 38 | 79 | 76 | G3/8"-F | 400 | 270 |
| FVI 12 | 101 | 86 | G1/2"-F | 600 | 600 |
| FVI 34 | 101 | 86 | G3/4"-F | 600 | 600 |
| FVI 114 | 135 | 96 | G1"1/4-F | 1400/1200 | 1050 |
| FVI 114 G | 173 | 156 | G1"1/4-F | 1400/1200 | 1850 |
| FVI 2 | 201 | 258 | G2"-F | 5000 | 3900 |

Note: all dimensions are shown in (mm)



Specifications

| | |
|----------------------|---|
| Body material | Stamped steel sheet |
| Treatment | Black paint |
| Filtration | 5 microns with a paper cartridge 3 microns with a polyester cartridge 60 microns with a stainless steel cartridge |
| Pressure loss | 2 to 4% vacuum with a new filter 5 to 7% vacuum with average clogging |



FVI

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For all orders, please specify:
Model + Fitting + Filtering material
e.g.: FVI34P

| 1: Model | 2: Fitting | 3: Filtering material |
|----------|--|---|
| FVI | 38 G3/8" 12 G1/2" 34 G3/4" 114 G1"1/4 114G G1"1/4 2 G2" | C Paper P Polyester I Stainless steel |



Filter

| Models | Use |
|----------------|------------------------------|
| FVI 38 | GVP 20 |
| FVI 12 | GVP 25 - 30 - PVR 6 (6 m³/h) |
| FVI 34 | Vacuum pumps: 10/16 m³/h |
| FVI 114 | Vacuum pumps: 20/25 m³/h |
| FVI 2 | Turbine |

Filtration

COVAL offers three filtration principles:

Model C: CE filtration element

- Paper cartridge with 5 micron filtration.
- No damp cleaning process possible.
- Incompatible to very humid conditions

Model P: PE filtration element

- Polyester cartridge with 3 micron filtration.
- Damp cleaning possible.

Model I: IE filtration element

- Stainless steel cartridge, 60 micron filtration.
- For use in very damp environments (water, liquid)

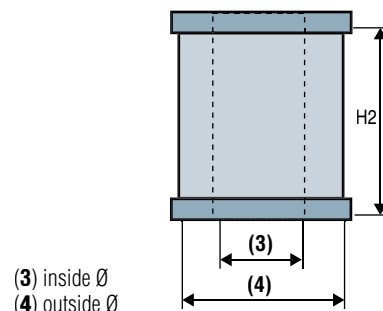
Accessories

| Models | Replacement cartridge (*) | External Ø | Internal Ø | H2 |
|------------------|---------------------------|------------|------------|-----|
| FVI 38 | FVI 38*E | 51 | 23 | 57 |
| FVI 12 | FVI 12*E | 64 | 38 | 68 |
| FVI 34 | FVI 12*E | 64 | 38 | 68 |
| FVI 114 | FVI 114*E | 98 | 60 | 71 |
| FVI 114 G | FVI 114G*E | 125 | 64 | 125 |
| FVI 2 | FVI 2*E | 149 | 88 | 221 |

(*) Specify the filter material: **C** (paper) ; **P** (polyester) ; **I** (stainless steel).

Note: all dimensions are shown in (mm)

Replacement cartridge



Other Models

FVG 11-2-3-5-6 series vacuum filters, for micro-ejectors

- Polyester cartridge
- See page 10/8

FVUM 14-38 series vacuum filters for GVP 12 and 15 vacuum pumps

- FVUG 38-12 vacuum filters, in-line stainless steel cartridge for GVP 15 and 25 vacuum pumps and small electric vacuum pumps.
- See page 10/7