

# 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.

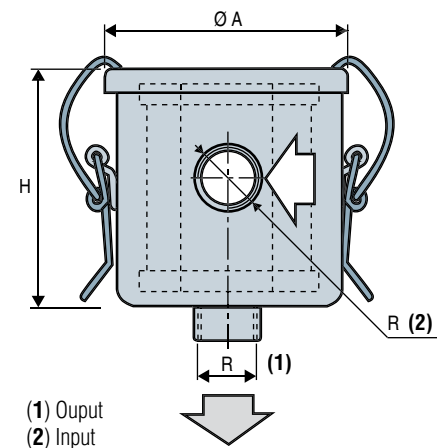
Important: These filters are designed for vacuum. They cannot withstand pressure greater than atmospheric pressure.

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

### Characteristics

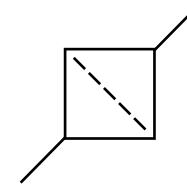
Models	A	H	R	Flow rate (SCFM)	Weight (g)
FVI 38	79	76	G3/8"-F	14.13	270
FVI 12	101	86	G1/2"-F	21.19	600
FVI 34	101	86	G3/4"-F	21.19	600
FVI 114	135	96	G1"1/4-F	49.44/42.38	1050
FVI 114 G	173	156	G1"1/4-F	49.44/42.38	1850
FVI 2	201	258	G2"-F	176.6	3900

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
<b>FVI 38</b>	GVP 20
<b>FVI 12</b>	GVP 25 - 30 - PVR 6 (211.88 Cf)
<b>FVI 34</b>	Vacuum pumps: 353/565 Cf
<b>FVI 114</b>	Vacuum pumps: 706/882 Cf
<b>FVI 2</b>	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)

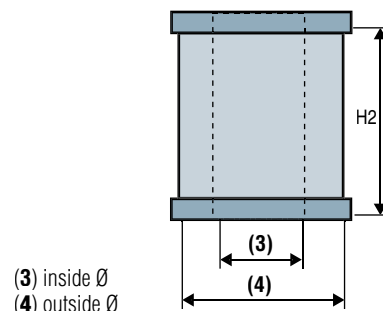
#### Accessories

Models	Replacement cartridge (*)	External Ø	Internal Ø	H2
<b>FVI 38</b>	FVI 38*E	51	23	57
<b>FVI 12</b>	FVI 12*E	64	38	68
<b>FVI 34</b>	FVI 12*E	64	38	68
<b>FVI 114</b>	FVI 114*E	98	60	71
<b>FVI 114 G</b>	FVI 114G*E	125	64	125
<b>FVI 2</b>	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