

1. Main technical indicators and parameters

EP-003G-IV Precision line filter		
1. Grade C Pre-filter		
1.	Model	EP-003G-IV-C
2.	Specification	Rc1-PN16
3.	Dimension	320mm*132mm
4.	Medium	Compressed air
5.	Flow rate	3.0 m ³ /min (Related to 1bar abs and 20 °C according to ISO 7183.)
6.	Working pressure	0.6-1.6MPa(Standard working condition 0.7MPa)
7.	Inlet Temp.	1.5°C~80°C
8.	Inlet/outlet pipe	Rc1
9.	Cartridge model and quantity	003-IV-C(1pcs)
10.	Filter element material	Stainless steel mesh + stainless steel perforated plate + fiberglass + non-woven fabrics
11.	Residual oil content	5ppm
12.	Initial pressure drop	0.007MPa
13.	Filters out solid particles	3μm
14.	Predecessor class	/
15.	Shell material	Aluminium
16.	Cartridge life	6000h
17.	Weight	≈2.6 kg
2. Grade T General Purpose Oil Removal Filter		
1.	Model	EP-003G-IV-T
2.	Specification	Rc1-PN16
3.	Dimension	320mm*132mm
4.	Medium	Compressed air
5.	Flow rate	3.0 m ³ /min (Related to 1bar abs and 20 °C according to ISO 7183.)
6.	Working pressure	0.6-1.6MPa(Standard working condition 0.7MPa)
7.	Inlet Temp.	1.5°C~80°C
8.	Inlet/outlet pipe	Rc1
9.	Cartridge model and quantity	003-IV-T(1pcs)
10.	Filter element material	Stainless steel inner and outer mesh + fiberglass + non-woven fabrics
11.	Residual oil content	0.5ppm
12.	Initial pressure drop	0.007MPa
13.	Filters out solid particles	1μm
14.	Predecessor class	C
15.	Shell material	Aluminium
16.	Cartridge life	6000h

17.	Weight	≈2.6 kg
3.Grade A High Efficiency Oil Removal Filter		
1.	Model	EP-003G-IV-A
2.	Specification	Rc1-PN16
3.	Dimension	320mm*132mm
4.	Medium	Compressed air
5.	Flow rate	3.0 m ³ /min
6.	Working pressure	0.6-1.6MPa(Standard working condition0.7MPa)
7.	Inlet Temp.	1.5°C~80°C
8.	Inlet/outlet pipe	Rc1
9.	Cartridge model and quantity	003-IV-A(1pcs)
10.	Filter element material	Stainless steel inner and outer mesh + fiberglass + non-woven fabric + white felt
11.	Residual oil content	0.01ppm
12.	Initial pressure drop	0.01MPa
13.	Filters out solid particles	0.01μm
14.	Predecessor class	T
15.	Shell material	Aluminium
16.	Cartridge life	6000h
17.	Weight	≈2.6 kg
4.Grade AA Super High Efficiency Oil Removal Filter		
1.	Model	EP-003G-IV-AA
2.	Specification	Rc1-PN16
3.	Dimension	320mm*132mm
4.	Medium	Compressed air
5.	Flow rate	3.0 m ³ /min (Related to 1bar abs and 20 °C according to ISO 7183.)
6.	Working pressure	0.6-1.6MPa(Standard working condition0.7MPa)
7.	Inlet Temp.	1.5°C~80°C
8.	Inlet/outlet pipe	Rc1
9.	Cartridge model and quantity	003-IV-AA(1pcs)
10.	Filter element material	Stainless steel inner and outer mesh + fiberglass + non-woven fabric + white felt
11.	Residual oil content	0.001ppm
12.	Initial pressure drop	0.015MPa
13.	Filters out solid particles	0.01μm
14.	Predecessor class	A
15.	Shell material	Aluminium
16.	Cartridge life	6000h
17.	Weight	≈2.6 kg

5. Grade H Activated Carbon Filter

1.	Model	EP-003G-IV-H
2.	Specification	Rc1-PN16
3.	Dimension	320mm*132mm
4.	Medium	Compressed air
5.	Flow rate	3.0 m ³ /min (Related to 1bar abs and 20 °C according to ISO 7183.)
6.	Working pressure	0.6-1.6MPa(Standard working condition 0.7MPa)
7.	Inlet Temp.	1.5°C~50°C
8.	Inlet/outlet pipe	Rc1
9.	Cartridge model and quantity	003-IV-H(1pcs)
10.	Filter element material	Stainless steel inner and outer mesh + activated carbon + polyurethane sponge
11.	Residual oil content	0.003ppm
12.	Initial pressure drop	0.01MPa
13.	Filters out solid particles	Removes only residual oil vapors and other odors from compressed air.
14.	Predecessor class	A
15.	Shell material	Aluminium
16.	Cartridge life	1000h
17.	Weight	≈2.6 kg

6. Grade TR General Dust Filter

1.	Model	EP-003G-IV-TR
2.	Specification	Rc1-PN16
3.	Dimension	320mm*132mm
4.	Medium	compressed air
5.	Flow rate	3.0 m ³ /min (Related to 1bar abs and 20 °C according to ISO 7183.)
6.	Working pressure	0.6-1.6MPa(Standard working condition 0.7MPa)
7.	Inlet Temp.	1.5°C~80°C
8.	Inlet/outlet pipe	Rc1
9.	Cartridge model and quantity	003-IV-TR(1pcs)
10.	Filter element material	Stainless steel inner and outer mesh + fiberglass + non-woven fabrics
11.	Residual oil content	/
12.	Initial pressure drop	0.007MPa
13.	Filters out solid particles	1μm
14.	Predecessor class	/
15.	Shell material	Aluminium
16.	Cartridge life	6000h
17.	Weight	≈2.6 kg

7. Grade AR High Efficiency Dust Filter

1.	Model	EP-003G-IV-AR
2.	Specification	Rc1-PN16
3.	Dimension	320mm*132mm
4.	Medium	Compressed air
5.	Flow rate	3.0 m ³ /min (Related to 1bar abs and 20 °C according to ISO 7183.)
6.	Working pressure	0.6-1.6MPa(Standard working condition0.7MPa)
7.	Inlet Temp.	1.5°C~80°C
8.	Inlet/outlet pipe	Rc1
9.	Cartridge model and quantity	003-IV-AR(1pcs)
10.	Filter element material	Stainless steel inner and outer mesh + fiberglass + non-woven fabric + white felt
11.	Residual oil content	/
12.	Initial pressure drop	0.01MPa
13.	Filters out solid particles	0.01μm
14.	Predecessor class	TR
15.	Shell material	Aluminium
16.	Cartridge life	6000h
17.	Weight	≈2.6 kg

In order to correctly select the compressed air precision line filter model, it is necessary to obtain the max. inlet flow rate and min. inlet pressure, select the correction factor from the corresponding type of table, and calculate the min. processing flow required by the compressed air precision line filter.

Min. process flow = Max. inlet flow/CFP

Inlet pressure correction factor (CFP)

barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CFP	0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	0.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51

2.Product Introduction

2.1 Product briefing



The compressed air precision line filter plays a key role in the compressed air drying and purification system, and is mainly used to remove water, oil, solid particles, microorganisms and other pollutants in the compressed air, and is characterized by high efficiency, ease of use, and low operating costs.

Since its introduction to the market, our company's compressed air precision line filter has solved air problems for countless users who need to improve the quality of compressed air, and is an essential

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compressed air purification tool for modern production!

2.2 Product Principle

The compressed air precision line filter is a kind of equipment that utilizes physical barrier technology to separate other components in the compressed air, and it is the main equipment to make the compressed air clean.

When the compressed air to be treated enters the filter, the flow rate slows down, large particles of liquid droplets fall down under the effect of gravity, and some liquid droplets and solid particles are directly intercepted when they pass through the fiberglass media layer, smaller diameter liquid droplets and solid particles with the gas through the cartridge, due to inertial collision by the media to capture and gradually coalesce into a larger droplet flow down. Smaller solid and liquid droplets do not change direction with the gas flow, and once they approach the filter media through Brownian motion, they are adsorbed on the filter media by the electrostatic gravitational force of the fiberglass, and the oil and water filtered out are gathered at the bottom of the filter, and discharged through the drainer.

2.3 Main features of the product

- **Advanced technology**

Using the original filter material of German HV, with winding and folding process, it is in the international leading level in processing precision.

- **Safe and reliable**

Our company has the qualification of pressure vessel manufacturing, and each process of the production of precision line filter housings has been strictly controlled to absolutely guarantee the safety and reliability of the products.

- **Super low pressure drop to energy savings**

precision line filter shell use a design that expands the flow path, which effectively reduces the pressure loss of the system and saves energy.

- **Non-toxic and environmental friendly**

The cartridge is made of international advanced multi-layer epoxy resin bonded with borosilicate glass fiber and other materials, and does not contain silicone resin.

- **Multiple options**

Seven stages of filtration designed according to different functions and precision, so that customers can choose a more suitable program for themselves.

Due to the continuous updating of technology, our company reserves the right to make changes and upgrades to our products without prior notice, please refer to the final product when ordering.

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