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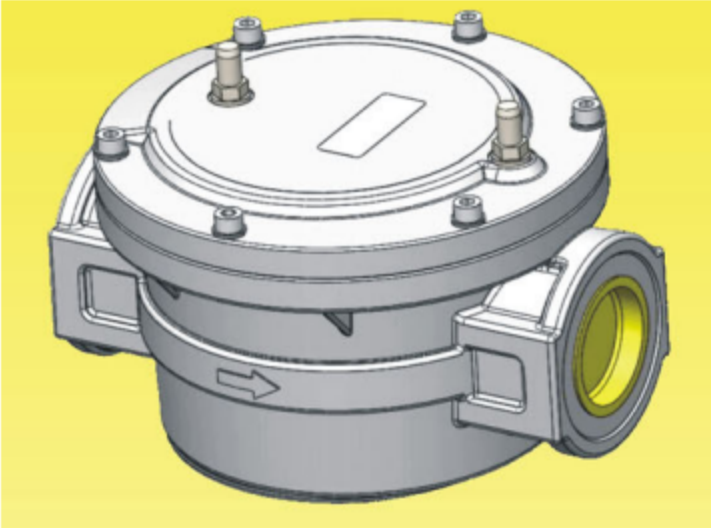
AF
Filter



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AF Filter

Overview

AF gas filter, a filter pad made of fiber yarn, is used to purify gas and air, eliminate impurities in the medium, and protect the normal use of valves and equipment.

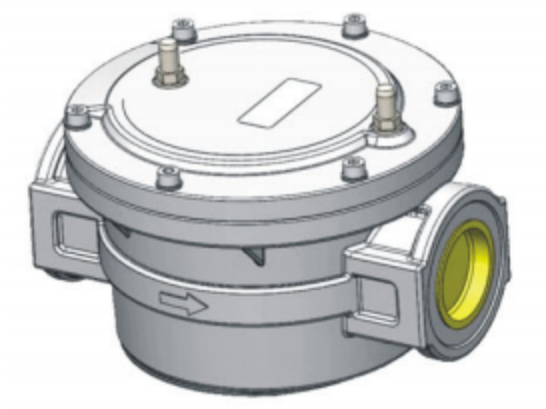


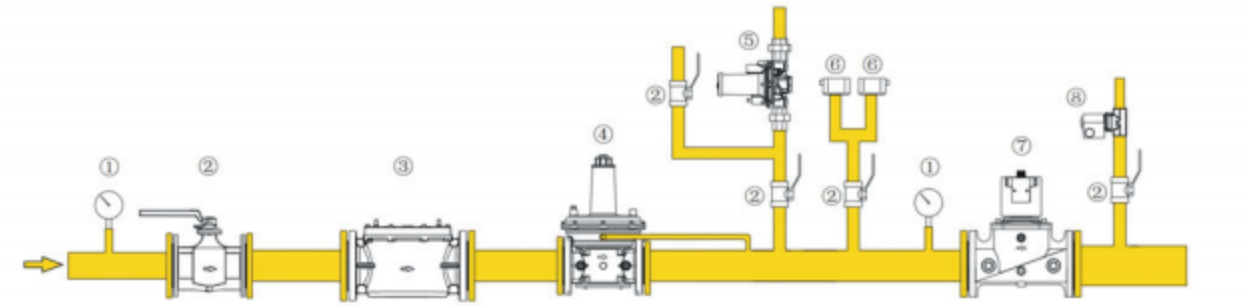
Fig. 1 AF Filter

Features

- AF series filter, using synthetic fiber filter element, filter accuracy < 50um.
- Modular design for easy cleaning and replacement of filter elements.
- Lightweight design.
- The filter cover plate has reserved holes, and pressure holes or pressure switches can be installed to monitor the filter status.

Functions and Applications

The filter AF is installed on the gas main road to filter welding slag, iron filings, dust and other impurities caused by the gas medium, protect the downstream equipment, improve the safety performance of the downstream safety equipment, and effectively prolong the service life of the downstream equipment.



① Pressure gauge
② Gas manual shutoff valve
③ Filter
④ Pressure Reducing Valve/ Stabilizing Valve
⑤ Automatic release valve
⑥ Pressure switch
⑦ Gas normally closed solenoid valve
⑧ Gas normally open solenoid valve

Fig. 2 Installation example of AF filter

Installation dimensions and specifications

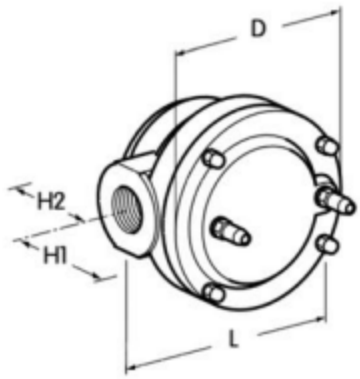


Fig. 3 Outline dimension diagram of AF filter

Model	L	φD	H1	H2
AF-15	92	88	69	33
AF-20	92	88	69	33
AF-25	135	134	69	43
AF-32	135	134	69	43
AF-40	208	182	88	64
AF-50	208	182	88	64

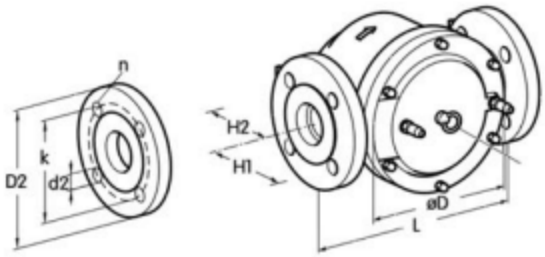


Fig. 4 Installation drawing of AF filter flange

Model	D2	k	d2	n
AF-65	185	145	18	4
AF-80	200	160	18	8
AF-100	228	180	18	8

Technical Parameters of AF Filter

- The filter element is made of synthetic fiber, and the filtration accuracy is less than 50 μ m.
- Working medium: gas, liquefied petroleum gas, natural gas and other non-corrosive gases.
- Working temperature:-15 ℃ ~ 60 ℃.
- Maximum inlet pressure of threaded connection: 2bar.
  Maximum inlet pressure of flanged connection: 4bar

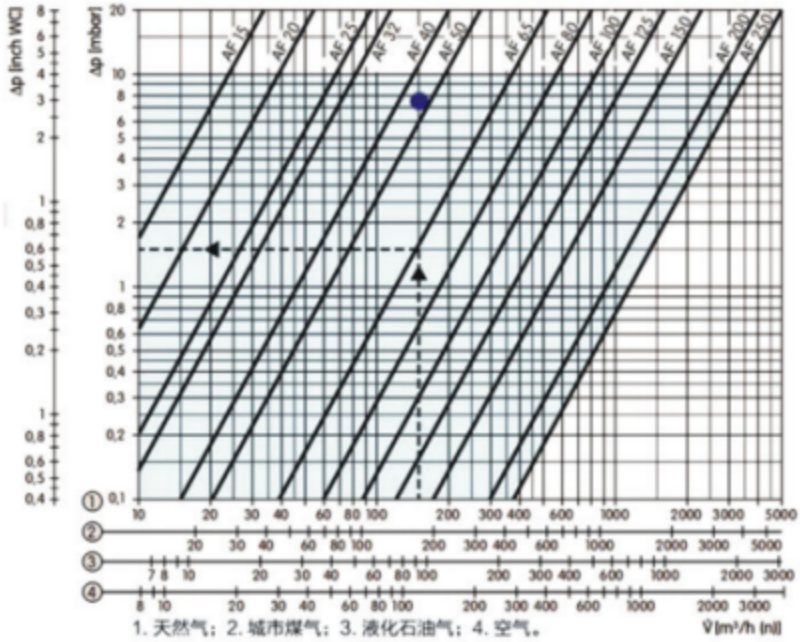


Fig. 5 Corresponding chart of filter flow and pressure

Order code and Model of AF Filter

No.	Order code	Model	Product Description
1	102010150001	AF-15	Thread connection Rp1/2 Maximum working pressure 2bar, Filter grade 50μm
2	102010200001	AF-20	Thread connection Rp 3/4 Maximum working pressure 2bar, Filter grade 50μm
3	102010250001	AF-25	Thread connection Rp1 Maximum working pressure 2bar, Filter grade 50μm
4	102010320001	AF-32	Thread connection Rp11/4 Maximum working pressure 2bar, Filter grade 50μm
5	102010400001	AF-40	Thread connection Rp11/2 Maximum working pressure 2bar, Filter grade 50μm
6	102010500001	AF-50	Thread connection Rp 2 Maximum working pressure 2bar, Filter grade 50μm
7	102010650001	AF-65	Flanged connection DN65 Maximum working pressure 4bar, Filter grade 50μm
8	102010800001	AF-80	Flanged connection DN80 Maximum working pressure 4bar, Filter grade 50μm
9	102011000001	AF-100	Flanged connection DN100 Maximum working pressure 4bar, Filter grade 50μm

Precautions for system design, installation and maintenance of filters

It can be installed on horizontal or vertical pipes, and it is recommended that the filter cover be located on the side to facilitate the cleaning of the filter screen and the removal of internal foreign bodies.

The arrow on the filter valve body indicates the direction of air flow, please pay attention to the direction during installation.

Before the filter is installed on the pipe, the pipe should be cleaned to prevent the foreign body in the pipe from falling into the valve and affecting the life of the filter.

Do not weld pipes and flanges after assembling flanges and filters in advance to prevent welding melts or other impurities from falling into the valve.

It is recommended that a manual shutoff valve should be installed upstream of the filter to facilitate valve maintenance.

Maintenance cycle: once a year or when the pressure loss is too large, the filter element needs to be replaced if the pressure loss is ≥ 2kPa.