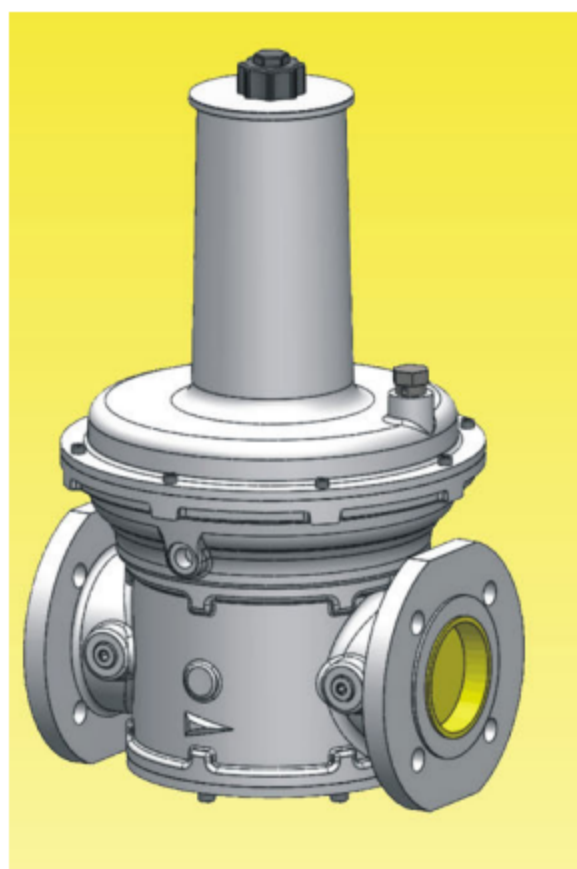




AGV Pressure Reducing Valve



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AGV Pressure Reducing Valve

Overview

AGV Pressure Reducing Valve adopts the opening of the opening and closing parts in the valve body to regulate the flow of gas and reduce the pressure of gas. At the same time, it adjusts the opening of the opening and closing parts with the help of the pressure behind the valve, so that the pressure behind the valve can be kept in a certain range.

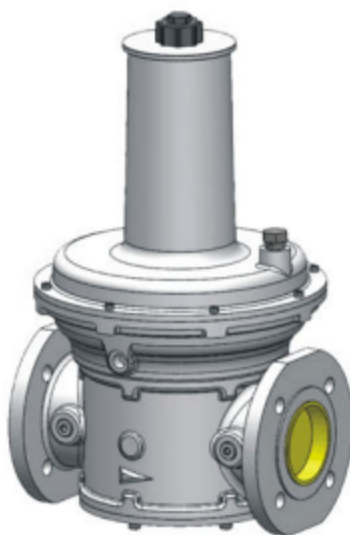


Fig. 1 AGV Pressure Reducing Valve

Features

- GV series pressure reducing valve is a self-operated pressure regulating valve, which reduces and stabilizes the pipeline pressure behind the pressure reducing valve.
- The valve has zero pressure shut-off function to ensure the stability of the pipeline pressure behind the valve in the state of no flow.
- The valve has the function of pressure compensation to eliminate the influence of inlet gas pressure fluctuation and keep the outlet pressure stable.
- Suitable for natural gas, liquefied gas, and other clean gases.

Functions and Applications

- AGV series pressure reducing valves are installed on the gas main or the gas branch line in front of the burner in the automatic control combustion system, which are used to reduce and stabilize the pipeline pressure, and can also be used in the combustion air pipeline of the ignition burner and other clean gases.
- The pressure reducing valve adjusts the outlet pressure of the pressure reducing valve by adjusting the spring, and the corresponding adjusting spring needs to be installed in different pressure adjustment range. The pressure adjusting knob is located at the top of the spring cavity, which adjusts the pressure to increase clockwise and decrease counterclockwise.
- The medium temperature is room temperature.

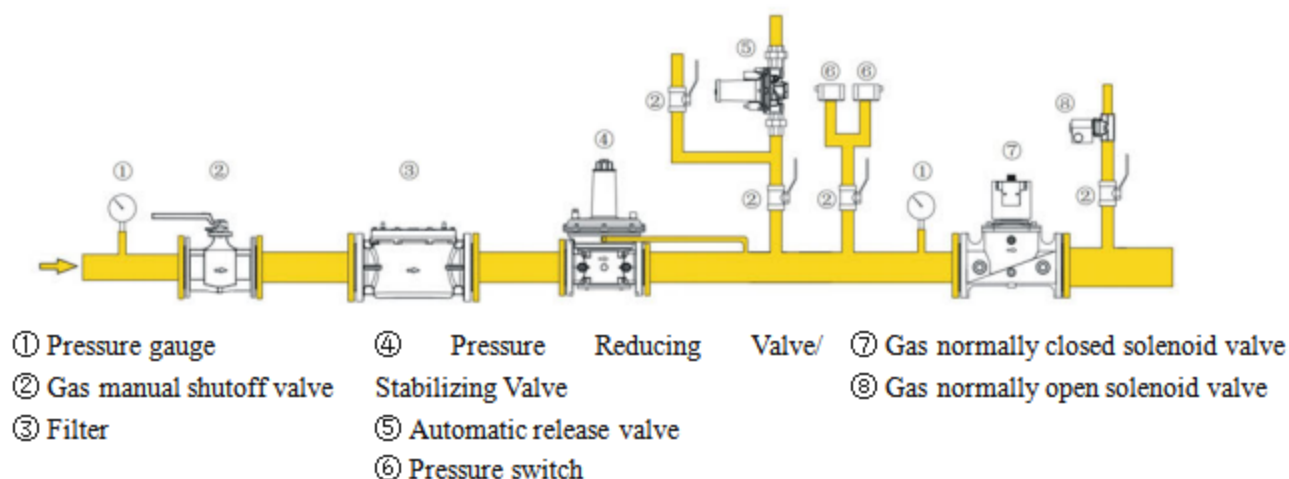


Fig. 2 Installation example of AGV pressure reducing Valve used in Gas main Road

Installation dimensions and specifications

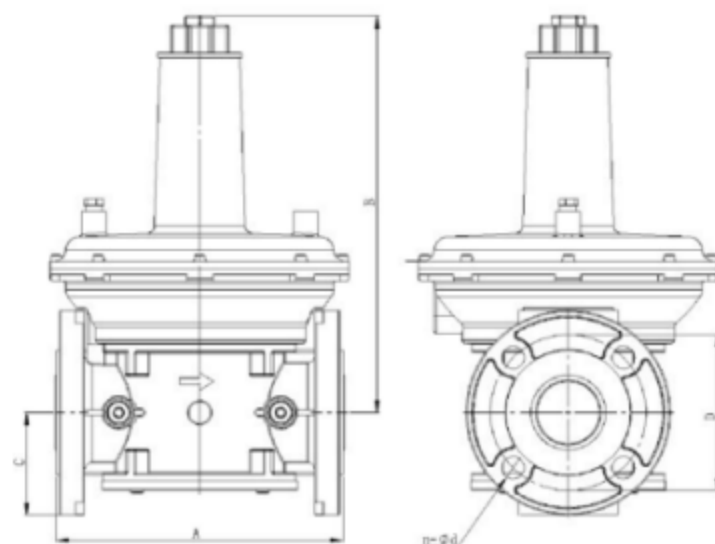


Fig. 3 Outline dimension drawing of AGV pressure reducing valve

Model	Nominal inner diameter	Connection mode	Dimension(mm)				
			A	B	C	D	n-φd
AGV-50	DN50	Standard flange	230	316	83	125	4-φ18
AGV-65	DN65	Standard flange	310	445	100	145	4-φ18
AGV-80	DN80	Standard flange	310	445	100	160	8-φ18
AGV-100	Dn100	Standard flange	350	500	115	180	8-φ18

AGV Pressure Reducing Valve

Technical Parameters of AGV Pressure Reducing Valve

- Product Structure: Flanged connection ;
- Working medium: gas, liquefied petroleum gas, Natural gas and other non-corrosive gases
- Operating temperature: -15°C~60°C;
- Maximum inlet pressure: 4bar;
- Outlet pressure range: 30~200mbar (Different outlet pressure ranges can be realized by selecting different springs.).

Order code and Model of AGV Pressure Reducing Valve

No.	Order code	Model	Product Description
1	107030501001	AGV-50	DN50 Pressure Reducing Valve, maximum inlet pressure1bar, voltage regulating range 30~80mbar
2	107030501002		DN50 Pressure Reducing Valve, maximum inlet pressure1bar, voltage regulating range 70~150mbar(standard)
3	107030501003		DN50 Pressure Reducing Valve, maximum inlet pressure1bar, voltage regulating range 100~200mbar
4	107030654002	AGV-65	DN65 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 30~80mbar
5	107030654001		DN65 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 70~150mbar(standard)
6	107030654004		DN65 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 100~200mbar
7	107030804002	AGV-80	DN80 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 30~80mbar
8	107030804001		DN80 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 70~150mbar(standard)
9	107030804003		DN80 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 100~200mbar
10	107031004002	AGV-100	DN100 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 30~80mbar
11	107031004001		DN100 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 70~150mbar(standard)
12	107031004003		DN100 Pressure Reducing Valve, maximum inlet pressure4bar, voltage regulating range 100~200mbar
If you need to customize the voltage regulation range, please feel free to consult us!			

AGV Pressure Reducing Valve

Points for attention in system design, installation and maintenance of pressure reducing valve

- It can be installed on the pipe in any direction, and the spring cavity is above the horizontal line.



- The arrow on the valve body indicates the direction of air flow, so pay attention to it during installation.
- Working ambient temperature: -15C~60C.
- A position should be reserved on the valve to facilitate the adjustment or replacement of the pressure regulating spring.
- AGV series need to install external feedback pipe, the pressure extraction position of feedback pipe is located at 5 times the diameter of straight pipe section downstream of pressure reducing valve, using middle 12 copper pipe.



- Leak and functional tests are performed after installation (maximum test pressure of 1.5 Pmax).
- Before the pressure reducing valve is installed on the pipeline, the pipeline needs to be cleaned, and attention should be paid to the correct use of sealing materials such as raw material belts during installation to prevent foreign matter from falling into the valve;
- After the pressure reducing valve is installed, do not weld the pipeline around the valve to prevent welding melt or other impurities from jamming or damaging the valve;
- It is recommended to install a manual shut-off valve upstream of the pressure reducing valve to facilitate valve maintenance;
- It is recommended to install filter AF upstream of the pressure reducing valve to protect the pressure reducing valve from foreign matter, dust, etc.;
- The pipeline flow rate generally does not exceed 30m/s, otherwise it may cause pipeline vibration;
- When in use, the inlet pressure must not exceed the maximum pressure indicated by the valve;
- The automatic shut-off valve should not be installed upstream of the pressure reducing valve and open the pressure reducing valve. The upstream manual shut-off valve needs to be opened slowly,
- Prevent valve overpressure damage caused by air flow impact;
- When the selected pressure reducing valve interface is flange connection, the PN1.6Mpa flat welded steel pipe flange in "GB/T9119- 2000" is selected for the matching flange;
- Maintenance intervals are performed once a year, with additional maintenance times as appropriate.