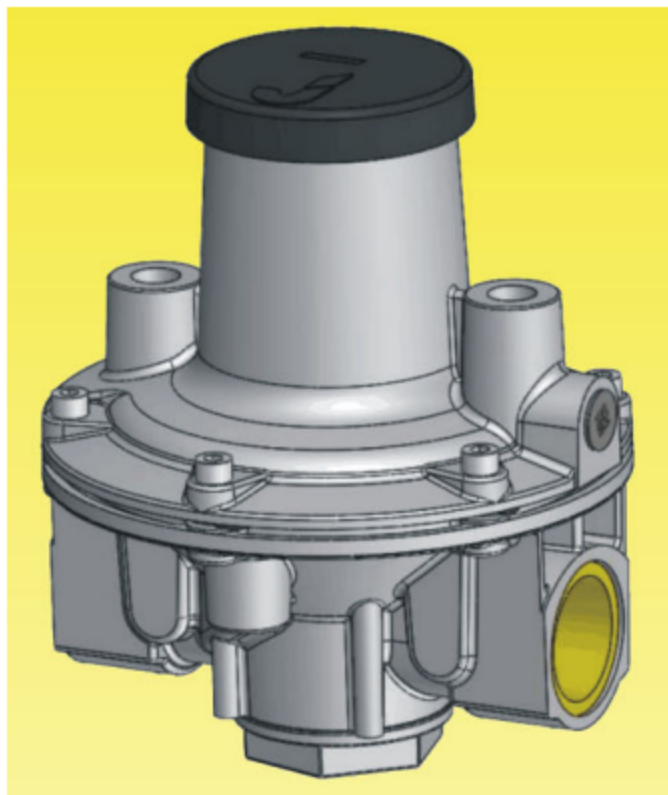




ADJ Stabilizing Valve



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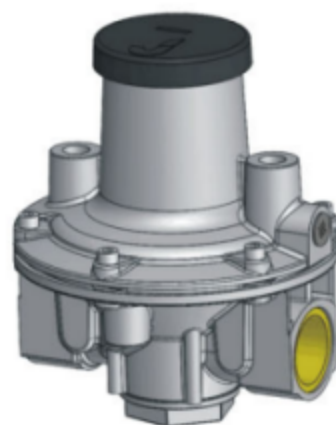
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ADJ Stabilizing Valve

Overview

- ADJ gas regulator with inlet pressure compensation diaphragm and zero closure, used to keep the outlet pressure set by the branch pipe of the gas network constant.
- The valve is used to control the gas and air supply pressure of gas burners and gas appliances in industrial and heating departments.



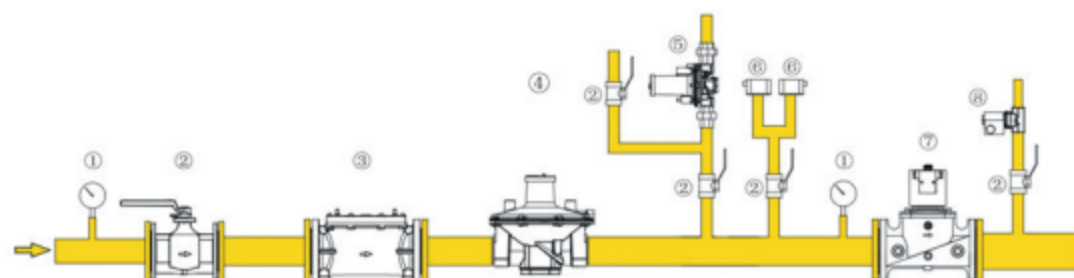
Features

- Pressure regulator ADJ series is a self-operated pressure regulating valve to reduce the pipeline pressure behind the pressure regulator.
- The output pressure range is adjustable.
- The valve has the function of pressure compensation to eliminate the influence of inlet gas pressure fluctuation and keep the outlet pressure stable.
- It is suitable for natural gas, liquefied gas, and other clean gases.

Fig. 1 ADJ Stabilizing Valve

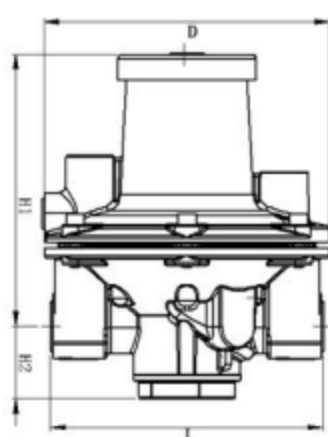
Functions and Applications

- The ADJ series of pressure stabilizing valves are installed on the gas main or in front of the burner in the automatic control combustion system to reduce and stabilize the pipeline pressure.
- It can also be used for combustion-supporting air pipes of ignition burners and other clean gases.
- The pressure stabilizing 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 regulation range.
- The pressure adjusting knob is located at the top of the spring cavity. When it is adjusted clockwise, the pressure increases, and when it is adjusted counterclockwise, the pressure decreases.



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

Fig. 2 Installation example of ADJ pressure stabilizing Valve



Installation dimensions and specifications

Model	Nominal inner diameter	Thread connection	Dimension(mm)			
			L	H1	H 2	中 D
ADJ-15	DN15	Rp1/2	125	34	132	134
ADJ-20	DN20	Rp3/4	125	34	132	134
ADJ-25	DN25	Rp1	125	34	132	134
ADJ-32	DN32	Rp1 1/4	155	45	149	185
ADJ-40	DN40	Rp 1/2	155	45	149	185

Fig. 3 Outline dimension diagram of ADJ Stabilizing Valve

Technical Parameters of ADJ Stabilizing Valve

- Product Structure: Internal thread connection;
- Working medium: gas, liquefied petroleum gas, Natural gas and other non-corrosive gases
- Operating temperature: -15°C-60°C;
- Maximum inlet pressure: 400mbar;
- Outlet pressure range: 12.5~160mbar (Different outlet pressure ranges can be realized by selecting different springs.);

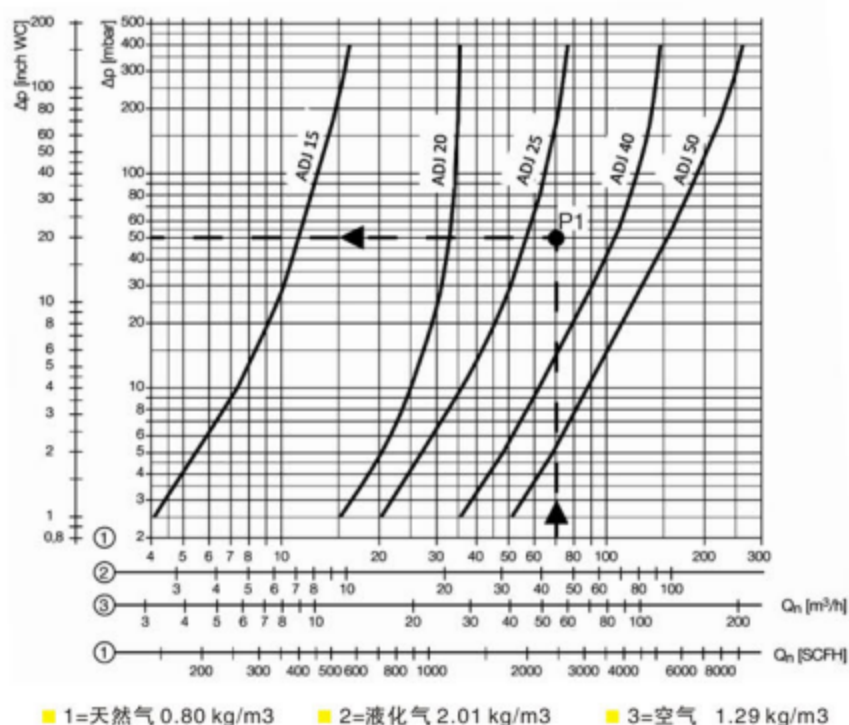


Fig. 4 Corresponding chart of flow and pressure of pressure stabilizing valve

Order code and Model of ADJ Stabilizing Valve

No.	Order code	Model	Product Description	Note
1	107020150003	ADJ-15	Maximum inlet pressure 400mbar, voltage regulating range 16~28mbar(standard)	Optional voltage regulating range: 25~75mbar
2	107020200001	ADJ-20	Maximum inlet pressure 400mbar, voltage regulating range 25~75mbar(standard)	Optional voltage regulating range:
3	107020250001	ADJ-25	Maximum inlet pressure 400mbar, voltage regulating range 25~75mbar(standard)	12.5~25mbar, 75~100mbar, 100~160mbar
4	107020320001	ADJ-32	Maximum inlet pressure 400mbar, voltage regulating range 25~75mbar(standard)	
5	107020400002	ADJ-40	Maximum inlet pressure 400mbar, voltage regulating range 25~75mbar(standard)	
If you need to customize the voltage regulation range, please feel free to consult us!				

Precautions for system design, installation and maintenance of pressure regulator

- 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 environment temperature: -15 °C ~ 60 °C.
- A position should be reserved on the valve to facilitate the adjustment or replacement of the pressure regulating spring.
- Perform leak and functional testing after installation (maximum test pressure is 1.5 Pmax).
- Before installing the pressure stabilizing valve on the pipeline, the pipeline should be cleaned and attention should be paid to the correct use of sealing materials such as raw material belt during installation to prevent foreign bodies from falling into the valve.
- Do not weld the pipe around the valve after the pressure regulator is installed to prevent welding melts or other impurities from blocking or damaging the valve.
- It is recommended that a manual cut-off valve should be installed upstream of the pressure stabilizing valve to facilitate valve maintenance.
- The flow velocity of the pipe generally does not exceed 30m/s, otherwise it may cause pipeline vibration.
- The inlet pressure must not exceed the maximum pressure identified by the valve when in use.
- Do not install the automatic cut-off valve upstream of the pressure stabilizing valve and open the pressure stabilizing valve. The upstream manual cut-off valve should be opened slowly.
- The overpressure damage of the valve caused by airflow impact should be prevented.
- The maintenance cycle is once a year, and the number of maintenance is increased as appropriate.