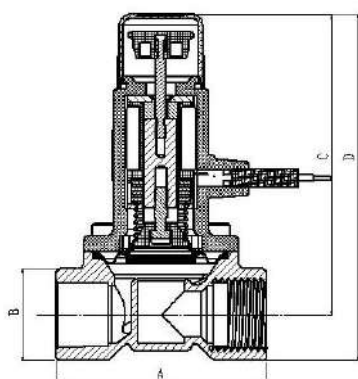


Gas emergency cut-off solenoid valve manual model: PL100 DN15A/DN20A/DN25A

●summary:

The company's PL100 series of gas emergency cut-off solenoid valve, Safety emergency cut-off device for gas pipeline. It can be connected with the gas leak alarm system or with the fire and other intelligent alarm control terminal module, etc., To achieve on-site or remote automatic / manual emergency cut off the gas source, Ensure gas safety. When there is a violent shock, Valve will automatically shut down. Open valve shall be subject to manual intervention, Manual opening, Meet safety management practices, Conform to the characteristics of accident treatment.

● Exterior dimension



Specific ations	A(mm)	B(mm)	C(mm)	D(mm)
DN15B	63	30	91	105
DN20B	74	37	95	112
DN25B	78	40	96	116

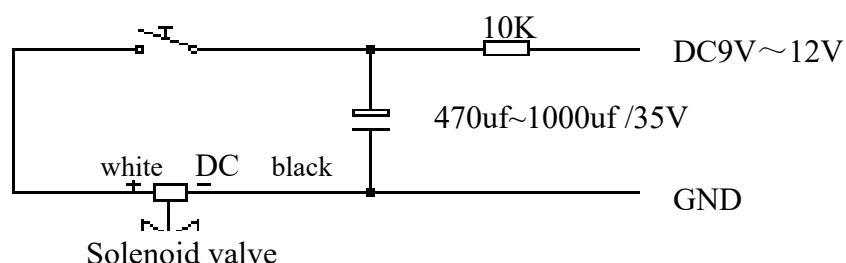
- ◆ Suitable gas: natural gas; Liquefied petroleum gas;
- ◆ Artificial coal gas, etc. Non corrosive gas
- ◆ body material: aluminium alloy
- ◆ Sealing material: NBRrubber
- ◆ Working environment temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- ◆ Maximum working pressure: 50kPa
- ◆ Connection mode: G1/2" (DN15B)/G3/4" (DN20B) /G1"(DN25B)
- ◆ Open valve mode: Manual reset
- ◆ Implementation standards: GB3836.9
- ◆ Way of closing valve: DC pulse drive / manual
- ◆ driving voltage: DC9V~DC12V. (pulse)
- ◆ Driving current: <2A (pulse)
- ◆ Valve closing time: Less than 1 second
- ◆ Explosion proof type: exm
- ◆ Outlet length: 0.4CM

●Principle

The clever use of instantaneous electromagnetic force and permanent magnetic force and the interaction of the spring force, Realization of pulse driven self - holding and manual valve opening self - holding function.

Valve driving principle: Instantaneous DC pulse drive off valve (DC 9V~12V/1s)

Principle diagram of capacitive discharge mode drive circuit:



●Operation instructions

1. Valve in the open state there are two ways to close the valve: ①To provide a solenoid coil (About 1 second) Instantaneous direct current pulse (DC 9~12V) electric energy, Valve is quickly closed; ②Open the protective cover, Hand press down the red handle can also be turned off valve. Off valve after the state self maintained.
be careful: Normally it is not suitable to open the protective cover, So as to avoid the wrong operation off valve.
2. There is only one way to open the valve when the valve is closed.: Pull the red handle manually, Open valve. Open valve state can be maintained.
be careful: Open valve, As the handle to lift the trouble, Measures should be taken to make both ends of the valve inlet and outlet pressure balance, Balance valve open.
Avoid barbaric operation, In order to avoid damage to the valve actuator.
3. Valve in the open state: Due to the principle of magnetic lock design, Therefore, when the valve in the event of a strong shock, Valve may be automatically closed,
Under normal conditions. If the open valve self locking force is not normal (Too small), Manufacturers should be notified maintenance.
4. When the valve is cut off, Must be confirmed on the spot, To eliminate the hidden trouble of the accident can be manually reset, Recovery ventilation.

●Installation requirements

1. Valve installation unit should have the corresponding qualification and according to the relevant gas pipeline construction standard installation.
2. The valve should be installed in the general indoor air inlet valve, In order to repair.
3. Should be installed in accordance with the direction of flow valve body, Body coil not inverted, Allows horizontal and vertical installation.
4. Solenoid valve control line should be correct and reliable connection, Control line polarity: The white line is positive, Black line is negative, Can not answer.
5. Pipe purge, The proposal to isolate the solenoid valve, In order to avoid damage to the valve sealing material.
6. Pipeline in the test of pressure test before sealing performance, Should first open the valve state of the solenoid valve.
7. Manual valve opening, Should be in the valve inlet and outlet pressure balance operation.
8. Electric off valve, Don't take the wrong power, Such as: the wrong polarity, plus the wrong voltage or a long time power, etc., So as not to damage the electromagnetic coil.
9. Any improper custody, Valve damage caused by illegal construction, parts lost, Does not belong to the company's free warranty.

● Installation guide for household type emergency cut-off solenoid valve

