

# AUTOMATIC GAS VALVES SLOW OPENING

English

CE 0497



## SLOW OPENING

AV015-SO

1

Automatic Valve

2

Dimensions:

015 = 1/2"  
020 = 3/4"  
025 = 1"

3

SO=Slow Opening

## GENERAL DESCRIPTION

All solenoid valves are automatic reset and normally closed.  
The automatic valves SLOW OPENING allow the regulation of:

- Flow rate.
- Rapid stroke.
- Opening time.

Gas automatic valve normally closed open when the coil is powered and close when there is no tension.

**WARNING: NOT SLACKEN OR REMOVE THE DAMPING SYSTEM WITH GAS PRESSURIZED.**

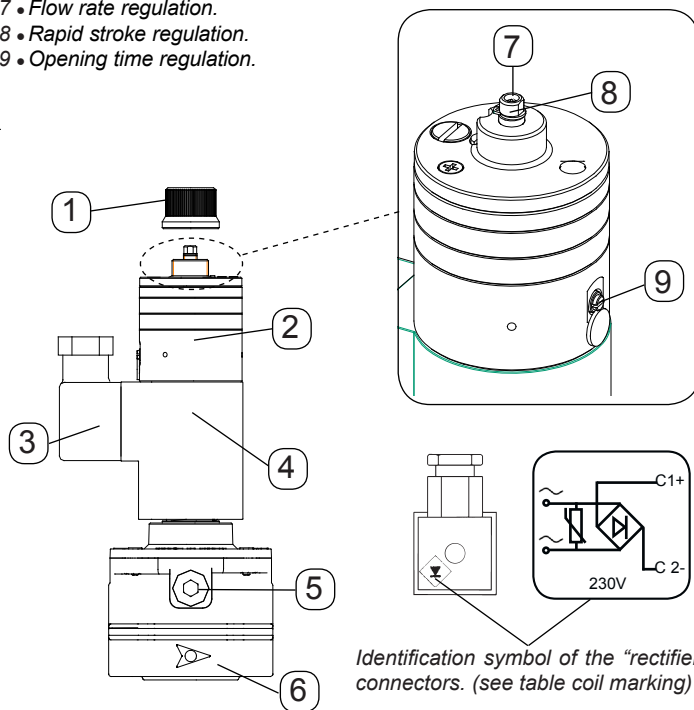
## INSTALLATION VALVES

- 1 • The gas supply must be shut off before installation.
- 2 • They must be installed with the arrow facing towards the user appliance.
- 3 • During installation take care not to allow debris or scraps of metal to enter the device.
- 4 • Check the pressure in the line is not more then max pressure of the valve.
- 5 • Check the voltage is the same as the coil voltage.
- 6 • Always check that the system is gas-tight after installation.



Installation and maintenance must be carried out only by qualified technicians.

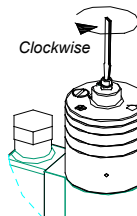
- 1 • Protection cap for adjustments.
- 2 • Damping system.
- 3 • Electrical connector
- 4 • Coil.
- 5 • Test point G 1/4".
- 6 • Valve body.
- 7 • Flow rate regulation.
- 8 • Rapid stroke regulation.
- 9 • Opening time regulation.



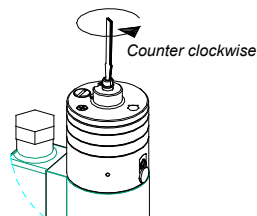
## FLOW RATE

With a flat screwdriver rotate the screw in the desired direction:

### FLOW DECREASING



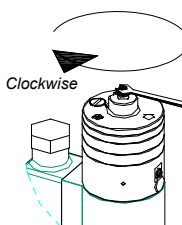
### FLOW INCREASING



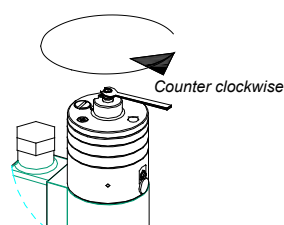
## RAPID STROKE

With a wrench rotate the ferrule in the desired direction:

### SLOW RAPID STROKE



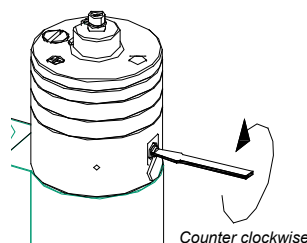
### FAST RAPID STROKE



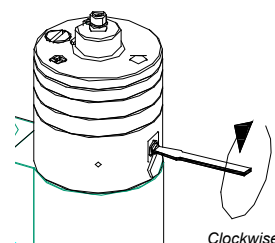
## OPENING TIME

With a flat screwdriver rotate the screw in the desired direction:

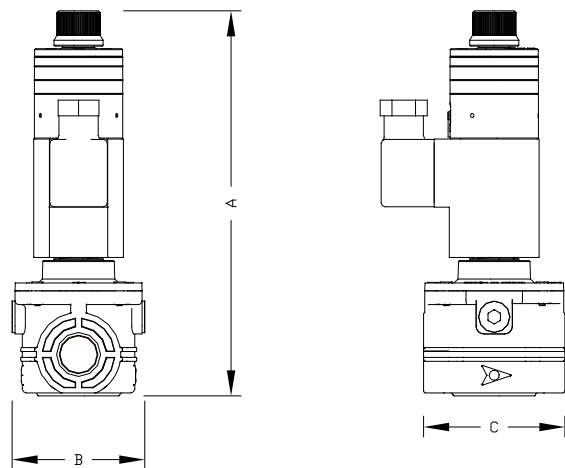
### OPENING TIME DECREASING



### OPENING TIME INCREASING



## DIMENSIONS (mm)



| $\phi$  | A(mm) | B (mm) | C (mm) |
|---------|-------|--------|--------|
| AV015SO | 196   | 68     | 72     |
| AV020SO | 196   | 68     | 72     |
| AV025SO | 196   | 68     | 72     |

Overall measurements (mm)

Threaded connections: from 1/2" to 2" as ISO 228/1. Body in brass

Flanging connections: from DN65 to

DN100 as UNI 2229. Body in brass.

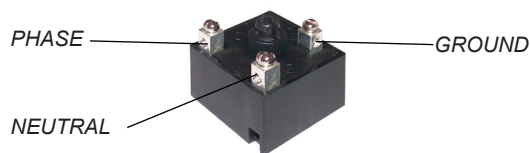
## COIL MARKING

|      |               |
|------|---------------|
|      | 230Vac        |
| N.C. | 230VRAC 17W B |



a particular (230Vca) connector must be associated to these coils which acts as a "delayer" and "rectifier" included in the packaging: Cod.21801906.

## ELECTRICAL CONNECTION



## MAINTENANCE

The solenoid valve's intervention should be checked periodically. Should disassembly be necessary, make sure there is no gas under pressure inside the valve and that is not connected to the power supply before starting. All maintenance operations should be carried out by qualified personnel.

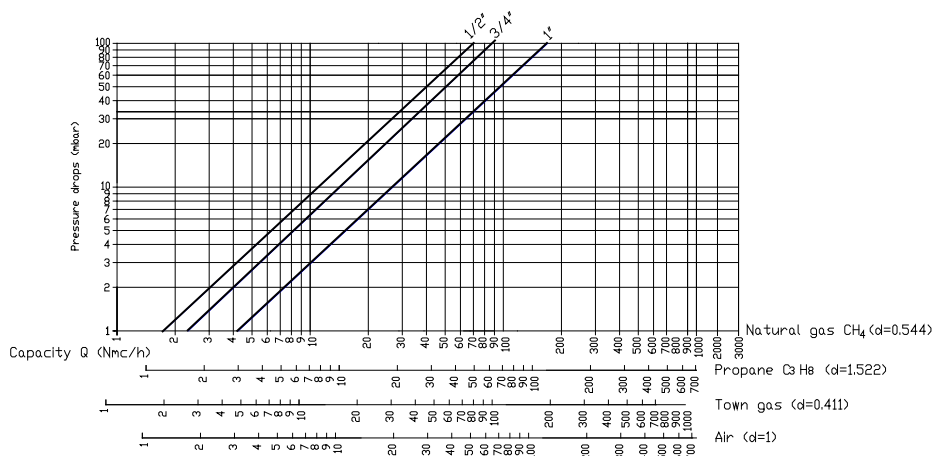
## INSTALLATION AND POSITION

Read instructions before use.

This device must be installed by fitting a suitable gas filter (according to UNI EN 161) upstream of it, also refers to the rules in force for proper installation. The solenoid valve must be positioned with the arrow stamped on the body turned towards the user appliance. The solenoid valve must be positioned with the arrow stamped on the body turned towards the user appliance upstream of the regulation apparatus and preferably outside the measurement zone and repaired to the atmospheric agents.

| Connection      | Horizontal position | Vertical position | Overtumed position |
|-----------------|---------------------|-------------------|--------------------|
| from 1/2" to 1" |                     |                   |                    |

## FLOW CHART



## TECHNICAL CHARACTERISTIC

- Max pressure: 360mbar
- Opening time (1/2" - 3/4" - 1"):
- Closing time: from < 1 second to 12 seconds.
- Max number of operations: < 1 sec.
- Max number of operations: 20 for minute
- Alimentazione elettrica: 230Vac - 50/60Hz
- Supply voltage: 230Vac (-15%+10%) 50-60Hz
- Use: Non Aggressive gases (Family 1-2-3) and Air.
- Working temperature: -20°C..... +60°C.
- Connections: from 1/2" to 1" threaded as ISO 228/1
- Degree of protection: from DN65" to DN100 flanging as UNI2223
- Group: IP65
- Approval: 2
- Approval: Directive 97/23/CE (PED) (only for 6bar model)
- Approval: Directive 2009/142/CE (GAS)-EN161



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