

CAVAGNA INDUSTRIE®

AUTOMATIC VALVES

FAST OPENING FROM 1/2" to DN100

360mbar/6bar

English



Made in Italy

AV015FO-FR-6B-110Vac



- ① Automatic Valves ③ FO=Fast Opening ⑤ ___=360mbar
-6B =6bar
- ② Dimension: ④ mod: ⑥ Power supply:
015 =1/2" ___=without Flow Regulation ___ = 230Vac
020 =3/4" -FR=with Flow Regulation -12Vac
025= 1" -12Vdc
032= 1 1/4" -24Vac
040= 1 1/2" -24Vdc
050= 2"
D65=DN65
D80=DN80
D100=DN100

GENERAL DESCRIPTION

These solenoid valves have been designed to be combined with any gas detection system.

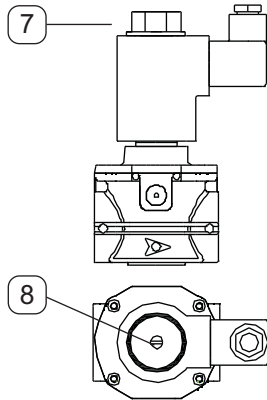
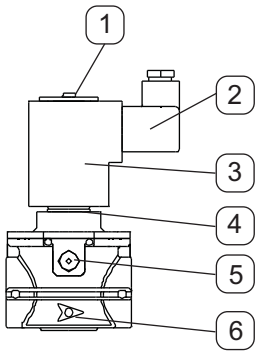
All solenoid valves are automatic reset and normally closed.

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

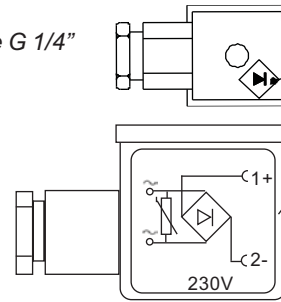
Model with code FR have flow regulation.

Mod. AV0xxFO

Mod. AV0xxFO-FR



- ① Seal Washer
- ② Electric connector
- ③ Coil
- ④ Release unit
- ⑤ Tappi prese di pressione G 1/4"
- ⑥ Valve body
- ⑦ Cap and seal oring
- ⑧ Regulation shaft



Identification symbol of the "rectifier" connectors. (see table coil marking)

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.

ADJUSTMENT OF GAS FLOW:

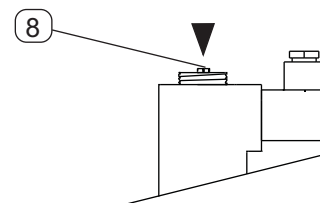
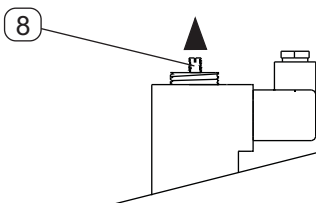
With the model FR is possible to set the gas flow.

The flow setting is done by turning the "Regulation shaft" ⑧ .

• Remove the "Plastic cap" ⑦ .

• To increase the flow **unscrew** the "Regualtion shaft":

• To decrease the flow **screw** the "Regualtion shaft":



DIMENSIONS (mm):

Ø	A	B	C
DN15 - 1/2"	148	64.5	72
DN20 - 3/4"	148	64.5	72
DN25 - 1"	148	64.5	72
DN32 - 1 1/4"	240	154.5	164
DN40 - 1 1/2"	240	154.5	164
DN50 - 2"	253	154.5	164
DN65	350	185	247
DN80	350	200	247
DN100	385	220	265

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.

from 360mbar to 6bar

COIL MARKING

	230Vac	110Vac
N.C.	230VRAC 17W B	110VRAC 17.5W B

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



INSTALLATION AND POSITION

Read instructions before use.

This devise 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.

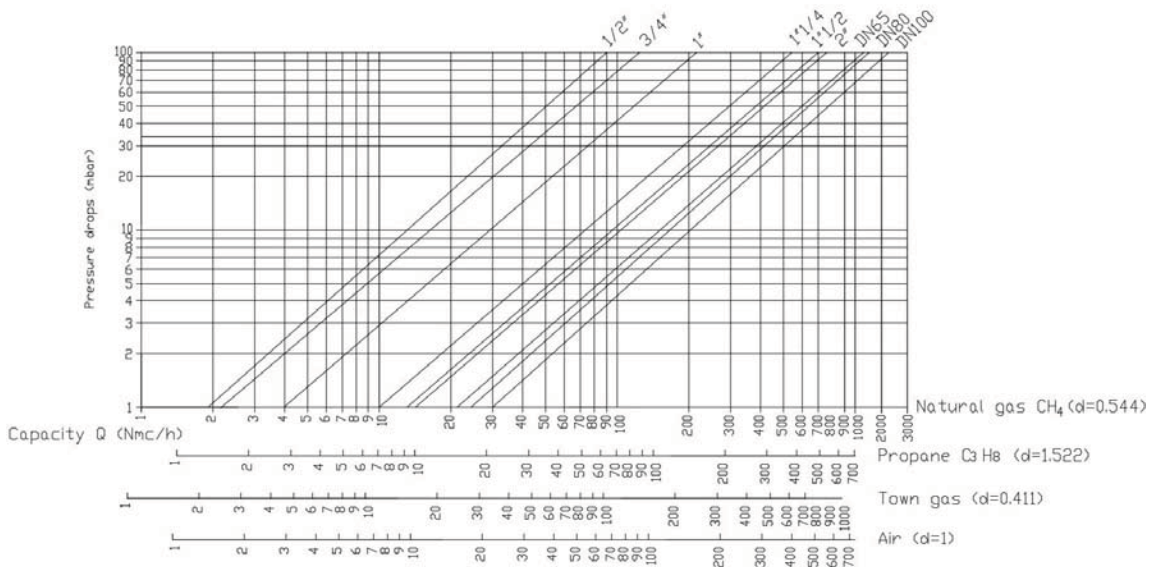
The solenoid valve must be positioned with the arrow stamped on the body turned towards the user appliance. The solenoid valve must be positioned with the arrow stamped on the body turned towards the user appliance upstream of the regulation apparatus and preferably outside the measurement zone and repaired to the atmospheric agents.

Connection	Horizontal position	Vertical position	Overtured position
from 1/2" to DN100			

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.

LOSS OF HEAD DIAGRAM



TECHNICAL CHARACTERISTICS

- Max pressure: 360mbar-6bar
- Opening time: < 1 sec.
- Closing time: < 1 sec
- Max number of operations: 20 for minute
- Alimentazione elettrica: 230Vac/110Vac - 50/60Hz
12/24Vac - 12/24Vdc
- Supply voltage: 230Vac/110Vac (-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 from DN65" to DN100 flanging as UNI2223
- Degree of protection: IP65
- Group: 2
- Approval: Directive 97/23/CE (PED) (only for 6bar model)
Directive 2009/142/CE (GAS)-EN161

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The manufacturer reserves the right to make any aesthetic or functional modifications without any prior notice and at any time.

