INSTALLATION

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 maintenence must be carried out only by qualified technicians.***

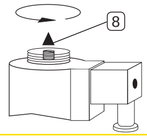
ADJUSTMENT OF GAS FLOW

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

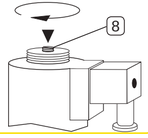
*The flow setting is done by turning the "**Regulation shaft**" (8).*

- *Remove the "**Plastic cap**" (7).*

- *To **INCREASE** the flow **UNSCREW** the "**Regualtion shaft**":*

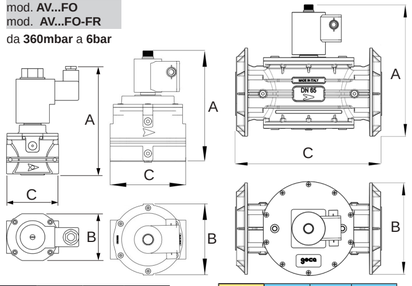


- *To **DECREASE** the flow **SCREW** the "**Regualtion shaft**":*



DIMENSIONS (mm)

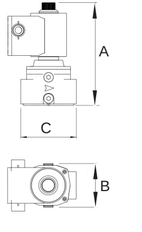
mod. **AV...FO**
mod. **AV...FO-FR**
da **360mbar** a **6bar**



ϕ	A	B	C
1/2"	149,0	68,0	72,0
3/4"	149,0	68,0	72,0
1"	149,0	68,0	72,0
1" 1/4	245,0	155,0	165,0
1" 1/2	245,0	155,0	165,0
2"	245,0	155,0	165,0

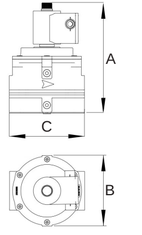
ϕ	A	B	C
DN25	185,0	115,0	135,0
DN32	265,0	155,0	260,0
DN40	270,0	155,0	260,0
DN50	280,0	165,0	260,0
DN65	316,0	220,0	350,0
DN80	316,0	220,0	350,0
DN100	325,0	220,0	350,0

mod. **AV...FO-HC**
mod. **AV...FO-FR-HC**
360mbar



ϕ	A	B	C
1/2"	173,0	73,0	93,0
3/4"	173,0	73,0	93,0
1"	173,0	73,0	93,0
DN25	210,0	115,0	155,0

mod. **AV...FO-EC**
360mbar

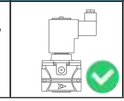
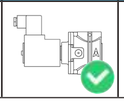
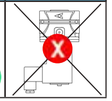


ϕ	A	B	C
1" 1/4	245,0	155,0	165,0
1" 1/2	245,0	155,0	165,0
DN32	265,0	155,0	260,0
DN40	270,0	155,0	260,0

Threaded connections: from 1/2" to 2" as ISO 228/1 - Flanging connections: from DN25 to DN100 as UNI 2223 - Overall measurements (mm) - Alluminium body.

INSTALLATION AND POSITION

Please caerfully read all istruction before use.
A suitable Gas filter (according to UNI EN161) must be installed upstream of this device and all rules and laws in force for Gas installations must be adhered to.
These solenoid valves will only operate with when the flow is in the same direction as the arrow on the valve body which is generally towards the appliance and upstream of the regulation apparatus.
Warnings: Install the solenoid valve protected from atmospheric agents.

Connection	*Horizontal position*	*Vertical position*	*Overturned position*
*from **1/2"** to **DN100***			

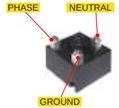
COIL MARKING and ELECTRICAL CONNECTION

mod. "AV....FO" and "AV....FO-FR" from 1/2" to DN25

***A* and *B* Connector**

	230Vac	110Vac
N.C.	230VRAC 17W **B**	110VARAC 17W **B**

	24Vdc	24Vac
N.C.	24Vdc 17W	24VRAC 17W **A**



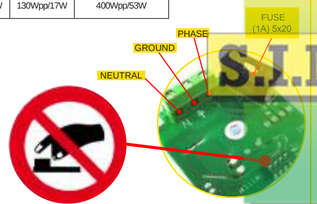
A *:a particular (24Vac) connector must be used with these coils which acts as a "delayer" and "rectifier" included in the packaging: Cod. 2.180.2430*

B *:a particular (230-110Vac) connector must be used with these coils which acts as a "delayer" and "rectifier" included in the packaging: Cod. 2.180.2429*

"AV....FO" and "AV....FO-FR" from 1" 1/4 to DN100

Connector

	230Vac		
	1" 1/4 - 1" 1/2	*2"*	*DN65 DN80 DN100*
N.C.	40Wpp/13W	130Wpp/17W	400Wpp/53W



DO NOT CHANGE DIP-SWITCHES POSITION

"AV..FO-HC" and "AV....FO-FR-HC" from 1/2" to DN25

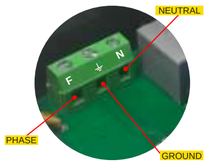
Connector

	230VRac	110VRac	24VRac	12VRac
N.C.	230VRac 23W	110VRac 22W	24VRac 23W	12VRac 23W

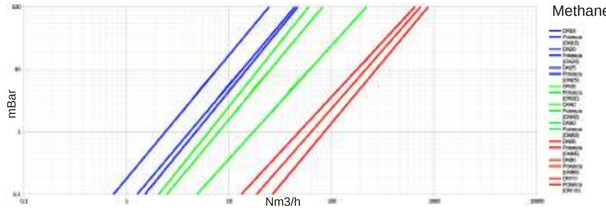
	24Vdc	12Vdc
N.C.	24Vdc 21W	12Vdc 23W

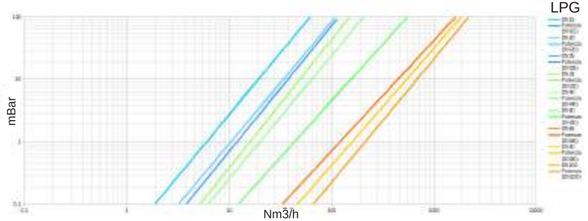
"AV..FO-EC" from 1" 1/4 to DN40

	230Vac
N.C.	230VRAC 37W



LOSS OFF HEAD DIAGRAM





MAINTENANCE

The solenoid valve's operation 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.

TECHNICAL CHARACTERISTICS

- *Max pressure:* 360mbar-6bar *(in according to the model)*
- *Opening time:* < 1 sec.
- *Closing time:* < 1 sec.
- *Max number of operations: 20 per minute.*
- *Power supply (only for **AV** from **1/2"** to **DN25**):*
  230VRac - 50-60Hz (-15%+10%) 17W
  110VRac - 50-60Hz (-15%+10%) 17W
  24Vac - 50-60Hz (-15%+10%) 17W
  24Vdc - 17W (-15%+10%)
- *Power supply (only for **AV** from **1" 1/4** to **DN100**):*
  1" 1/4 - 1" 1/2: *230VRac - 50-60Hz (-15%+10%) - 40Wpp/13W*
  2" : *230VRac - 50-60Hz (-15%+10%) - 130Wpp/17W*
  DN65 - DN80 - DN100: *230VRac - 50-60Hz (-15%+10%) - 400Wpp/53W*
- *Power supply (only for **AV HC** from **1/2"** to **DN25**):*
  230VRac - 50-60Hz (-15%+10%) - 23W
  110VRac - 50-60Hz (-15%+10%) 22W
  24VRac - 50-60Hz (-15%+10%) 23W
  24Vdc (-15%+10%) 21W
  12VRac - 50-60Hz (-15%+10%) 23W
  12Vdc (-15%+10%) 23W
- *Power supply (only for **AV EC** from **1"1/4** to **DN40**):*
  230VRac - 50-60Hz (-15%+10%) - 37W
- *Use:* *Non Aggressive gases (Family 1-2-3) and Air.*
- *Working temperature:* *-20°C.... +60°C.*
- *Connections from 1/2" to 2" threaded as ISO 228/1. from DN50 to DN100 flanging as UNI2223.*
- *Degree of protection:* *IP65.*
- *Group:* *2.*
- *Approval:* *Directive 2014/68/UE (only for 6bar model). EU 2016/426 (GAR) Regulation - EN161Norm*

Dis.8034076F Cod. 2.710.2752

Directive 2012/19/UE (Waste Electrical and Electronic Equipment - WEEE):

Information for users:
The crossed out wheeled bin label that can be found on your product indicates that this product should not be disposed of via the normal household waste stream. To prevent possible harm to the environment or human health please separate this product from other waste streams to ensure that it can be recycled in an environmentallysound manner. For more details on available collection facilities please contact your local government office or the retailer where you purchased this product.

WEEE

MADE IN ITALY

Tecnocontrol Srl
Via Miglioli, n°47 20090 Segrate (MI)
Italy Tel. +39 02 26922890
www.tecnocontrol.it

GECA Srl
Via E. Fermi, n°98 25064 Gussago (BS)
Italy Tel. +39 030 3730218
www.gecasrl.it

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

AV

ELETTROVALVOLE AUTOMATICHE

APERTURA/CHIUSURA RAPIDA da 1/2" a DN100 360mbar/6bar

Italiano



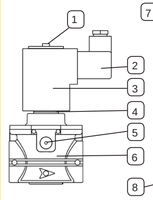
DESCRIZIONE

Queste elettrovalvole sono nate per essere abbinate a qualunque sistema di rivelazione gas. Tutte le elettrovalvole sono a riarmo automatico e normalmente chiuse.
Esse infatti hanno bisogno di essere continuamente alimentate per restare aperte.
Si chiudono automaticamente se viene a mancare tensione alla bobina.
Alcuni modelli sono dotati di regolatore di portata (FR).

AV015**FO**-**HC**-FR-**6B**-110Vac
1 2 3 4 5 6 7

1. **AV**=Valvole automatiche
2. **Dimensioni:**
   015 = 1/2"
   020 = 3/4"
   025 = 1"
   032= 1" 1/4
   040= 1" 1/2
   050= 2"
   D50= DN50
   D65= DN65
   D80= DN80
   D100= DN100
3. **FO**=Fast opening (Apertura veloce)
4. **Caratteristiche:**
   ___ = Capacità standard
   HC = Alta capacità
   EC = Bobina incapsulata
5. **Modello:**
   ___ = Without Flow Regulation.
   -FR = With Flow Regulation.
6. **BAR:**
   ___ =360mbar
   -6B = 6bar
7. **Alimentazione:**
   ___ = 230Vac
   110Vac
   24Vdc
   24Vac

Mod. **AV...FO**

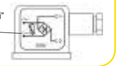


Mod. **AV...FO-FR**



1. Vite/rondella/OR per fissaggio bobina
2. Connettore per collegamento elettrico
3. Bobina
4. Gruppo di scatto
5. Tappi prese di pressione G 1/4"
6. Corpo valvola
7. Tappo e OR per fissaggio bobina
8. Perno di regolazione portata

Simboli che identificano i connettori "raddrizzatori" (vedi tabella Timbratura bobina).



S.I.M.E A.E.