

INSTALLAZIONE

- Prima dell'installazione assicurarsi di chiudere il gas.
- L'elettrovalvola deve essere installata con la freccia stampata sul corpo valvola rivolta verso l'utenza.
- Verificare che all'interno della valvola non vi siano detriti o corpi estranei.
- Verificare che la pressione della linea non sia superiore alla pressione massima dichiarata dell'elettrovalvola.
- Verificare che la tensione di rete corrisponda alla tensione di alimentazione della Bobina dell'elettrovalvola.
- Verificare la tenuta dell'impianto.

L'installazione e manutenzione del prodotto deve essere eseguita da personale qualificato.

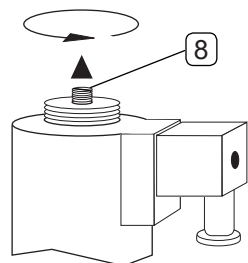
REGOLAZIONE PORTATA

Nei modelli FR (Flow regulation) è possibile regolare la portata dell'elettrovalvola.

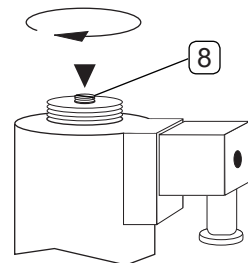
La regolazione viene effettuata ruotando con un cacciavite il "Perno di regolazione" **8**.

- Svitare e togliere il "Tappo fissaggio bobina" **7**:

- Per **AUMENTARE** la portata, **SVITARE** il "Perno di regolazione".



- Per **DIMINUIRE** la portata, **AVVITARE** il "Perno di regolazione".



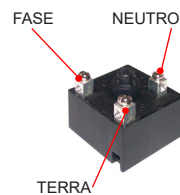
TIMBRATURA BOBINE & CONNETTORI

mod. "AV...FO" e "AV...FO-FR" da 1/2" a DN25

Connettore A e B

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

	24Vdc	24VRac
N.C.	24Vdc 17W	24VRAC 17W A

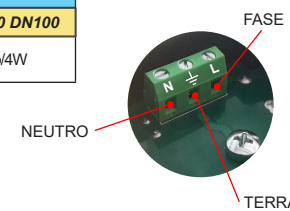


- A** :con queste bobine (24Vac), utilizzare il connettore Cod. 2.180.2430 che funge da "ritardatore" e "raddrizzatore", presente nell'imballo.
- B** :con queste bobine (230-110Vac), utilizzare il connettore Cod. 2.180.2429 che funge da "ritardatore" e "raddrizzatore", presente nell'imballo.

"AV...FO" e "AV...FO-FR" da 1" 1/4 a DN100

Connettore

	230Vac		
N.C.	1" 1/4 - 1" 1/2	2"	DN65 DN80 DN100
	40Wpp/4W	130Wpp/1,5W	400Wpp/4W

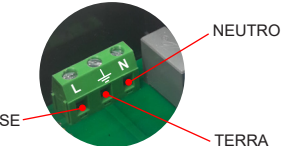


"AV...FO-HC" e "AV...FO-FR-HC" da 1/2" a DN25

	230Vac
N.C.	230VRAC 21W

Connettore

	230Vac
N.C.	230VRAC 37W



POSIZIONAMENTO

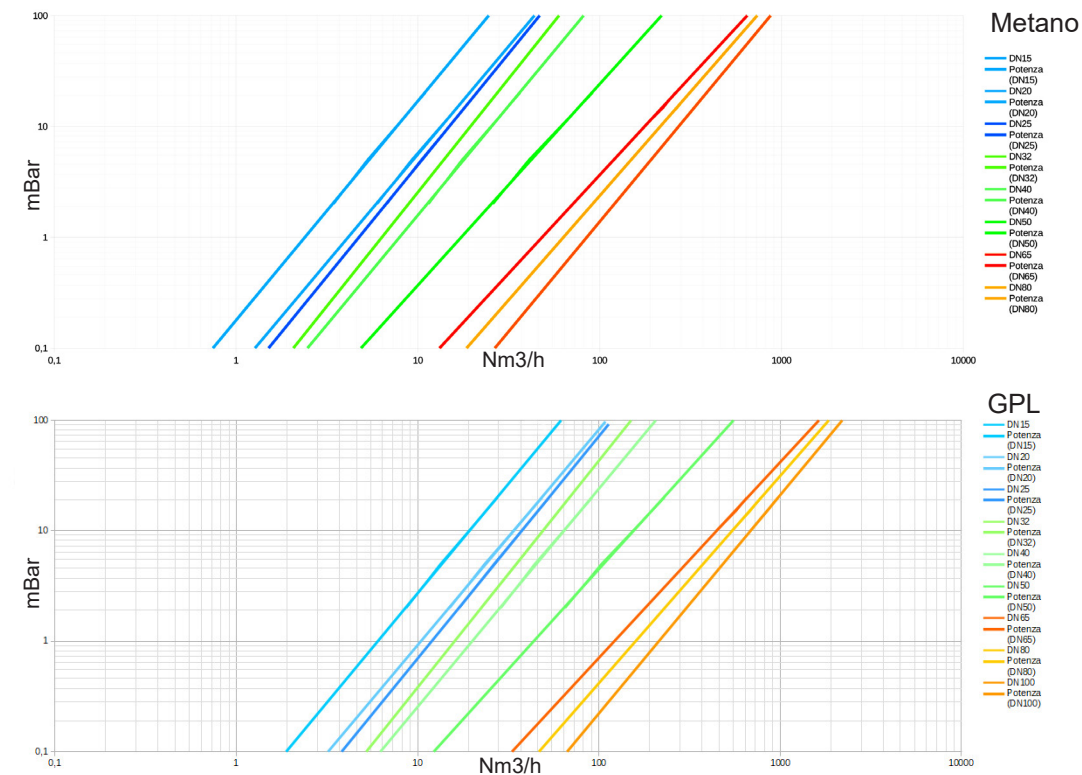
Leggere attentamente il foglietto istruzioni prima dell'uso.

Questo dispositivo deve essere installato montando un filtro idoneo per gas (conforme alla norma EN161) a monte di esso, riferirsi inoltre alle leggi in vigore per una corretta installazione. L'elettrovalvola deve essere installata con la freccia stampata sul corpo rivolta verso l'utenza. Deve essere posizionata a monte degli organi di regolazione e preferibilmente all'esterno dell'ambiente in cui è presente l'utenza.

N.B. Installare l'elettrovalvola al riparo dagli agenti atmosferici.

Attacchi	Posizione Orizzontale	Posizione Verticale	Posizione Capovolta
da 1/2" a DN100			

DIAGRAMMA PERDITE DI CARICO



MANUTENZIONE

Si consiglia di verificare periodicamente l'intervento dell'elettrovalvola. In caso di necessità, prima di effettuare qualsiasi operazione sull'elettrovalvola, accertarsi che all'interno della stessa non ci sia gas in pressione e che non sia alimentata elettricamente. Qualsiasi operazione di manutenzione dev'essere eseguita da personale qualificato.

CARATTERISTICHE TECNICHE

- Pressione max: 360mbar/6bar (a seconda del modello).
- Tempo di apertura: < 1 sec.
- Tempo di chiusura: < 1 sec.
- Numero max operazioni: 20 al minuto.
- Alimentazione elettrica (solo per AV da 1/2" a DN25):
 - 230VRac - 50-60Hz (-15%+10%) 17W
 - 110VRac - 50-60Hz (-15%+10%) 17W
 - 24Vac - 50-60Hz (-15%+10%) 17W
 - 24Vdc - 17W (-15%+10%)
- Alimentazione elettrica (solo per AV da 1" 1/4 a DN100):
 - 1" 1/4 - 1" 1/2: 230VRac - 50-60Hz (-15%+10%) - 40Wpp/4W
 - 2": 230VRac - 50-60Hz (-15%+10%) - 130Wpp/1,5W
 - DN65 - DN80 - DN100: 230VRac - 50-60Hz (-15%+10%) - 400Wpp/4W
- Alimentazione elettrica (solo per AV HC da 1/2" a DN25): 230VRac - 50-60Hz (-15%+10%) - 21W
- Alimentazione elettrica (solo per AV EC da 1" 1/4 a DN40): 230VRac - 50-60Hz (-15%+10%) - 37W
- Impiego: Gas non aggressivi (Metano, Propano, GPL...) e aria.
- Temperatura di lavoro: -20°C... +60°C.
- Attacchi: da 1/2" a 1" filettati secondo ISO 228/1, da DN25 a DN100 Flangiati secondo UNI 2223. IP65.
- Grado di protezione elettrica: 2.
- Gruppo: Direttiva 2014/68/UE (PED) (solo per modelli 6bar), Regolamento 2016/426/EU (GAR) - Norma EN161.
- Conforme: CE

DIRETTIVA 2012/19/UE (Rifiuti di Apparecchiature Elettriche ed Elettroniche - RAEE):

Informazioni agli utenti:
L'etichetta con il cassonetto barrato presente sul prodotto indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente e alla salute umana separare questo prodotto da altri rifiuti domestici in modo che possa venir riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sui centri di raccolta disponibili, contattare l'ufficio governativo locale o il rivenditore del prodotto.

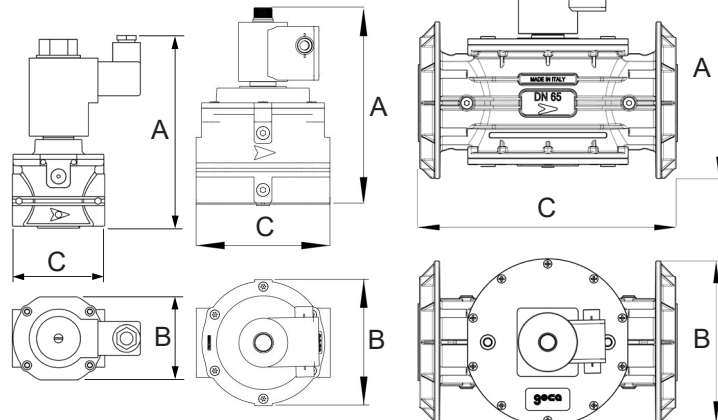
MADE IN ITALY

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

geca
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Via E. Fermi, n°98 25064 Gussago (BS)
Italy Tel. +39 030 3730218
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DIMENSIONI (mm)

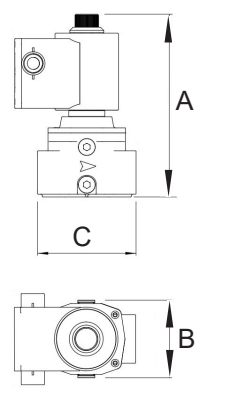
mod. AV...FO
mod. AV...FO-FR
da 360mbar a 6bar



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
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

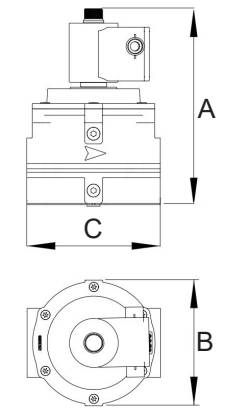
Attacchi filettati: da 1/2" a 2" secondo ISO 228/1 - Attacchi flangiati: da DN25 a DN100 secondo UNI 2223 Misure d'ingombro in mm. - Corpo in alluminio.

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



AV

FAST OPENING/CLOSING FROM 1/2" to DN100 360mbar/6bar

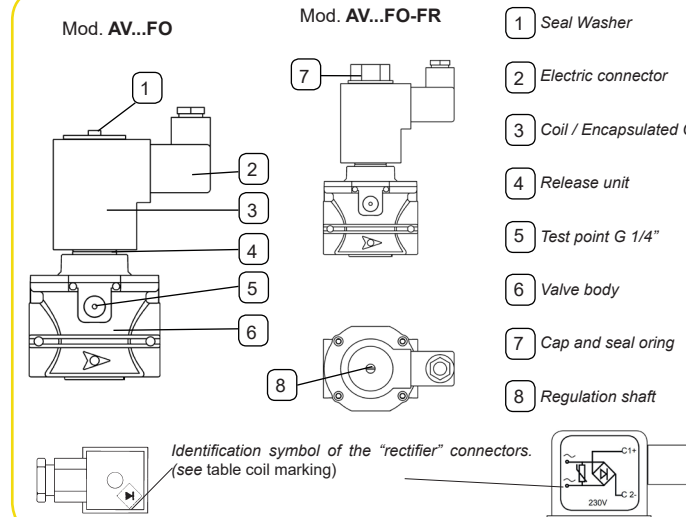


GENERAL DESCRIPTION

These solenoid valves are designed to be used with gas detection systems. All solenoid valves are automatic reset and normally closed. These Gas solenoid valves will open only when the correct voltage is applied to the coil. When no power is present the valves will automatically reset to the closed position and will not reopen until the power to the coil is resumed. Model with code FR have flow regulation.

AV015FO-HC-FR-6B-110Vac

- AV=Automatic Valves
- Dimensions:
 - 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
- FO=Fast opening
- Characteristic:
 - HC = High Capacity
 - EC = Encapsulated Coil
- Mod.:
 - = Without Flow Regulation.
 - FR = With Flow Regulation.
- BAR = 360mbar
-6B = 6bar
- Power supply:
 - = 230Vac
 - 110Vac
 - 24Vdc
 - 24Vac



INSTALLATION

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

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

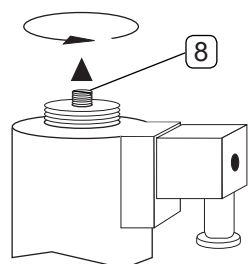
ADJUSTMENT OF GAS FLOW

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

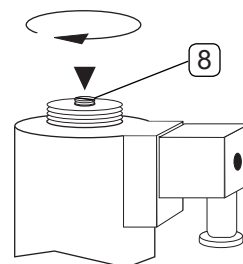
The flow setting is done by turning the "Regulation shaft" **8**.

- Remove the "Plastic cap" **7**:

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



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

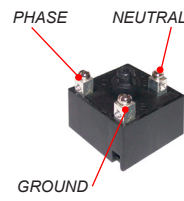


COIL MARKING and ELECTRICAL CONNECTION

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

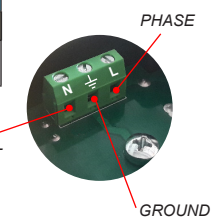


- A** : a particular (24Vac) connector must be used with these coils which acts as a "delayer" and "rectifier" included in the packaging: Cod. 2.180.2430
- B** : a particular (230-110Vac) connector must be used with these coils which acts as a "delayer" and "rectifier" included in the packaging: Cod. 2.180.2429

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

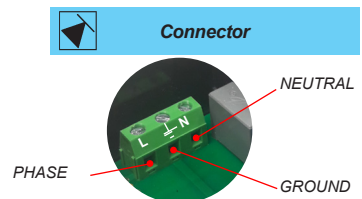
Connector

	230Vac
N.C.	1" 1/4 - 1" 1/2 2" DN65 DN80 DN100
	40Wpp/4W 130Wpp/1,5W 400Wpp/4W



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

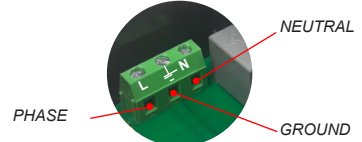
	230Vac
N.C.	230VRAC 21W



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

Connector

	230Vac
N.C.	230VRAC 37W



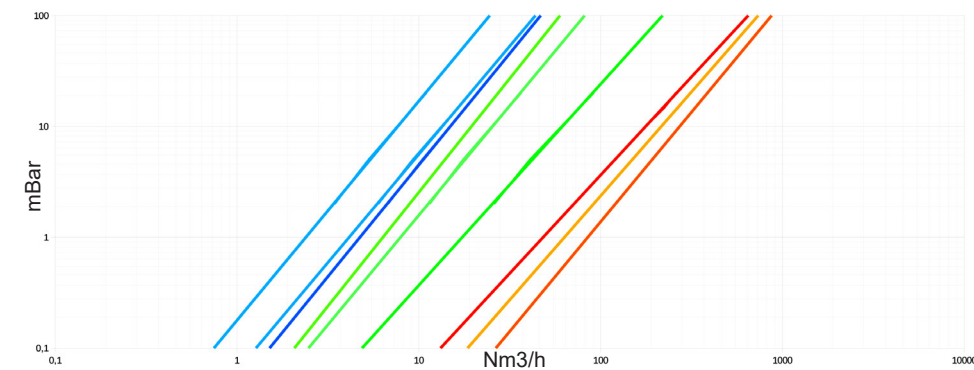
INSTALLATION AND POSITION

Please carefully read all instruction 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.

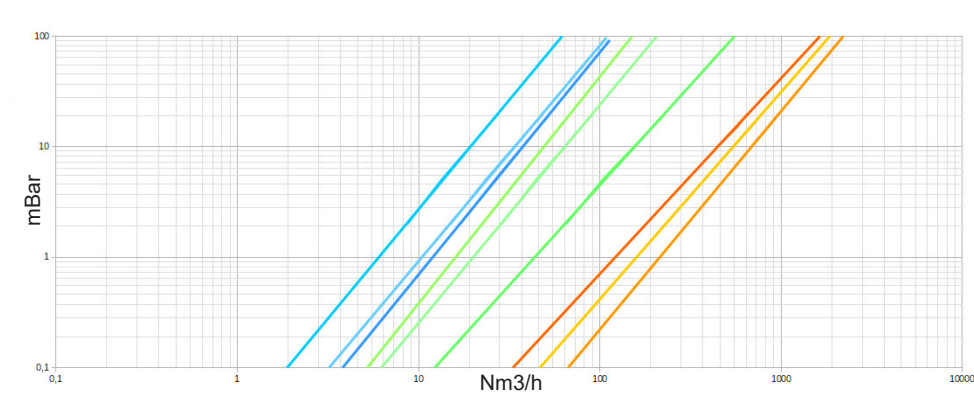
Connection	Horizontal position	Vertical position	Overtured position
from 1/2" to DN100			

LOSS OFF HEAD DIAGRAM



Methane

Legend for Methane:
DN15 Potenza (DN15)
DN20 Potenza (DN20)
DN25 Potenza (DN25)
DN32 Potenza (DN32)
DN40 Potenza (DN40)
DN50 Potenza (DN50)
DN65 Potenza (DN65)
DN80 Potenza (DN80)
DN100 Potenza (DN100)



LPG

Legend for LPG:
DN15 Potenza (DN15)
DN20 Potenza (DN20)
DN25 Potenza (DN25)
DN32 Potenza (DN32)
DN40 Potenza (DN40)
DN50 Potenza (DN50)
DN65 Potenza (DN65)
DN80 Potenza (DN80)
DN100 Potenza (DN100)

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%) - 21W
- 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 UNI 2223.
- Degree of protection: IP65.
- Group: 2.
- Approval: Directive 2014/68/UE (only for 6bar model). EU 2016/426 (GAR) Regulation - EN161Norm
- Power supply (only for AV from 1" 1/4 to DN100): 1" 1/4 - 1" 1/2: 230VRac - 50-60Hz (-15%+10%) - 40Wpp/4W
2": 230VRac - 50-60Hz (-15%+10%) - 130Wpp/1,5W
DN65 - DN80 - DN100: 230VRac - 50-60Hz (-15%+10%) - 400Wpp/4W

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 environmentally sound manner. For more details on available collection facilities please contact your local government office or the retailer where you purchased this product.



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

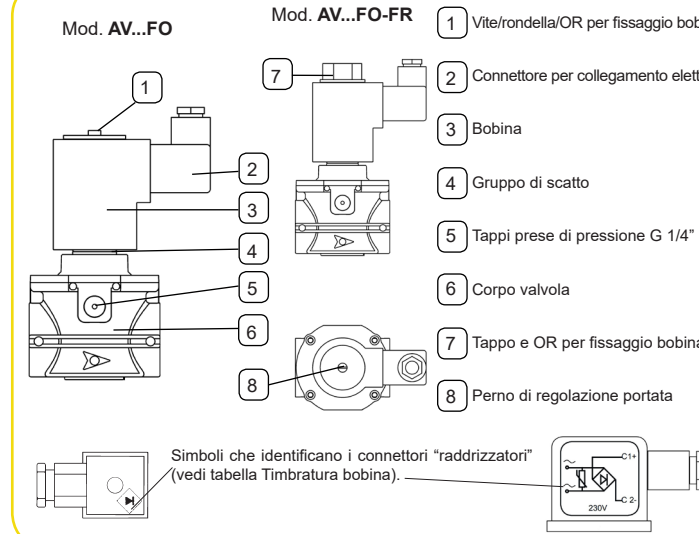


DESCRIZIONE

Queste elettrovalvole sono nate per essere abbinata 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).

AV015FO-HC-FR-6B-110Vac

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



DIMENSIONS (mm)

mod. AV...FO
mod. AV...FO-FR
from 360mbar to 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
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.