N.C. GAS SOLENOID VALVES

G 912
19.06.09 MC
REV. 01

GNC 815 / OTN Eng.

- **Constructed to EN 161 standard**
- **Approved in Class "A" Group 2**
- **Brass body**
- **NBR gaskets**

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1. APPLICATION

Designed for use in safety systems (gas leak detectors) for shut-off on gas feed pipes.

2. OPERATION

GNC/OTN is a N.C. rapid-action safety valve. In the rest condition a spring presses against the plug thereby keeping the gas passage closed; when the coil is powered the valve opens.
This is ideal for continuous service (always powered);
ATTENTION : during normal operation the coil temperature can reach 70°C.

3. MODEL AVAILABLE

Code	Attachment DN	Power supply V	Consumption W	MaxPress(1) mbar	Bore Ø mm	Flow rate m³/h(2) 0.5 mbar	Flow rate m³/h(2) 1 mbar	Certification GASTEC PIN :
GNC 815/OTN	1/2"	230 V~	16	200	18	0.7	1	63AQ 1350 - 10/99

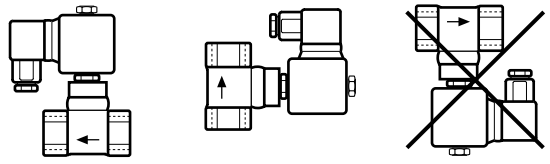
(1) – Maximum working pressure 100 mbar = 10kPa = 1000 mm WG
(2) – Flow of methane gas with pressure drop of 0.5 mbar (5mm WG) and 1mbar (10mm WG).

4. TECHNICAL DATA

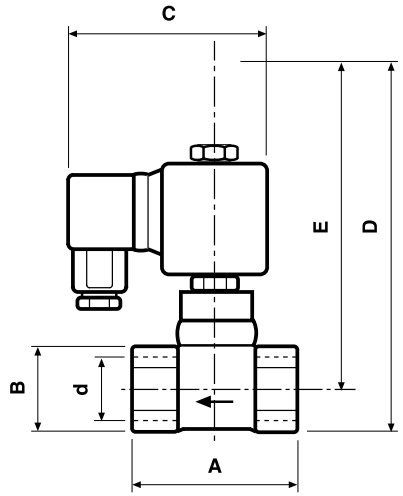
Power supply	230 V ~
Voltage tolerance	– 15...+10 %
Consumption	see table (3)
Protection	IP 54
Cable entry gland	DIN PG 9 connector
Attachment	threaded female gas
Opening/Closure time	< 1 second
Room temperature	– 15...+60 °C
Coil temperature (always live)	~70°C
Installation	within 90° of vertical
Construction :	
– valve body	OT 58 brass
– gasket	NBR (UNI 4916-74)
– pressure spring	AISI 302 steel

5. INSTALLATION

- Position the valve downstream of the meter and outside the premises through which the gas pipe passes.
- If placed outside it must be protected from the weather.
- Ensure that there are no residues from soldering or threading in the pipes.
- Check the alignment of the pipes and make sure that they are not subject to vibrations.
- Respect the flow direction indicated by the arrow embossed on the valve body.
- The valve can be mounted in any position except that with the coil facing downwards.
- Leave sufficient space for replacing the valve should it be necessary and for air to circulate around the valve.
- Never use the coil as a lever but employ suitable tools on the seats of the valve body.
- When installation is completed check that the valve is gas-tight.

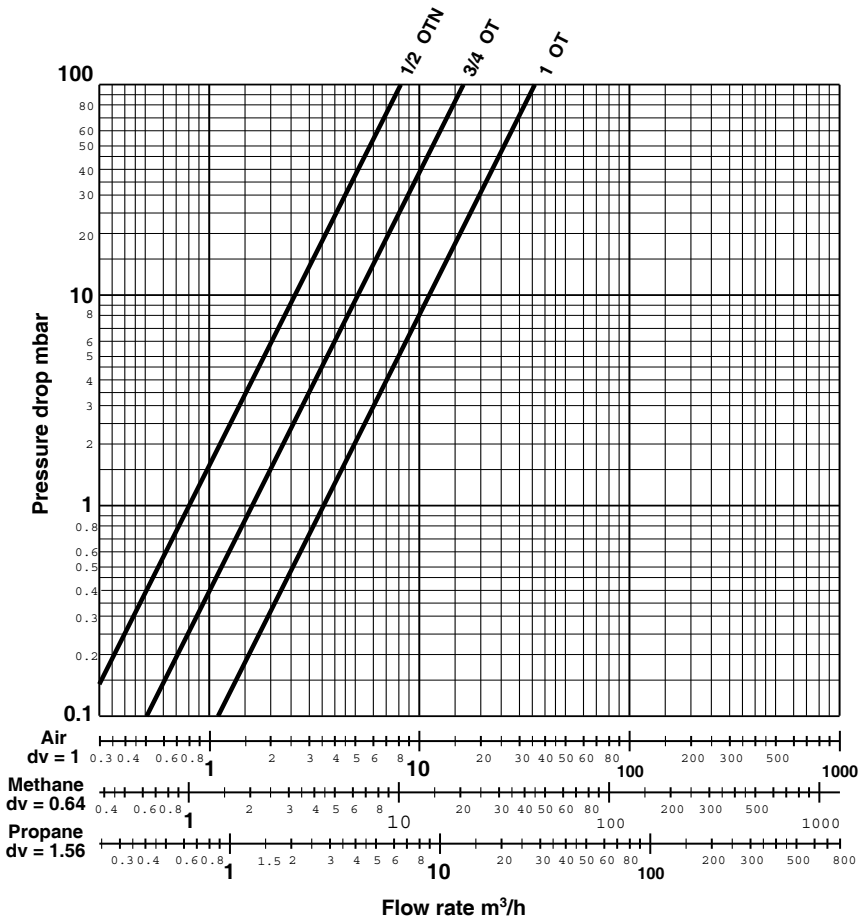


6. OVERALL DIMENSIONS



Type	d DN	A mm	B mm	C mm	D mm	E mm	Weight kg
815/OTN	**1/2"**	**58**	**30**	**70**	**96**	**83**	**0.4**

7. PRESSURE DROP



8. ELECTRICAL WIRING & MAINTENANCE

The two connecting wires must be attached to the two opposite poles of the connector, while the central one goes to earth.
Make the electrical connections to the connector during installation. Make sure that the cable entry gland is not facing upwards to prevent water or humidity from entering it and causing damage.
To remove the coil, first turn off the power, then uncouple the connector and finally unscrew the nut on the head of the connector and withdraw it from the core.
Periodically simulate an alarm on the gas detector in order to check the efficient operation of the valve.
WARNING:
When the coil is live it can reach very high temperatures so ensure that the connecting cables are not placed in contact with it and in any case use cables resistant to high temperatures.

Amendment to data sheet

Date	Revision No.	Page	Section	Amendment description
19.06.09 MC	01	All	General	Model changed form GNC/OT to model /OTN; diagram Pressure drop updated; date of certification amended

COSTER
CIE CONTROLLI TEMPERATURA ENERGIA
COSTER TECNOLOGIE ELETTRONICHE S.p.A.
Sede Legale: 20132 Milano - Via San G.B. De La Salle, 4/a

Head Office & Sales
Via San G.B. De La Salle, 4/a — Tel. +39 022722121
20132 - Milano — Fax +39 022593645
Orders — Fax +39 0227221239
Reg. Off. Central & Southern
Via S. Longanesi, 14 — Tel. +39 065573330
00146 - Roma — Fax +39 065566517
Shipping
Via Gen. Treboldi, 190/192 — Tel. +39 0364773200
25048 - Edolo (BS) — Tel. +39 0364773202

E-mail: info@coster.eu — Web: www.coster.eu

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IQNet
THE INTERNATIONAL CERTIFICATION NETWORK
Registration Number: IT - 34674
CSQ - Certificate N. 9115.COEE

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