G 922
18.05.04 MZ

N.C. GAS SOLENOID VALVES WITH MANUAL RESET

GRC ... / OT Eng.

- **Brass body**
- **NBR gaskets**
- **Rapid closure when not powered**
- **Ideal for continuous use (always powered)**

CE

1. APPLICATION

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

2. OPERATION

GRC/OT is a N.C. rapid-action safety valve with manual reset. In the resting state a spring presses on the valve plug thereby keeping the gas passage closed. When the coil is powered the valve opens and remains open until reset manually.
This is ideal for continuous operation (always powered). During normal operation the coil temperature can reach 70°C.

3. MODELS AVAILABLE

Code	Attachment DN	Power Supply V	Consumption W	Max press(1) mbar	Bore ø mm	Flow rate m³/h(2) 0.5 mbar	1mbar	Certification GASTEC PIN :
GRC 815/OT	1/2"	230 V~	8	500	18	0.7	1	–
GRC 415/OT	1/2"	24 V~	22	500	18	0.7	1	–
GRC 215/OT	1/2"	12 V–	22	500	18	0.7	1	–
GRC 820/OT	3/4"	230 V~	8	500	27	1.4	2	–
GRC 420/OT	3/4"	24 V~	22	500	27	1.4	2	–
GRC 220/OT	3/4"	12 V–	22	500	27	1.4	2	–
GRC 825/OT	1"	230 V~	8	500	27	3	4.3	–
GRC 425/OT	1"	24 V~	22	500	27	3	4.3	–
GRC 225/OT	1"	12 V–	22	500	27	3	4.3	–

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

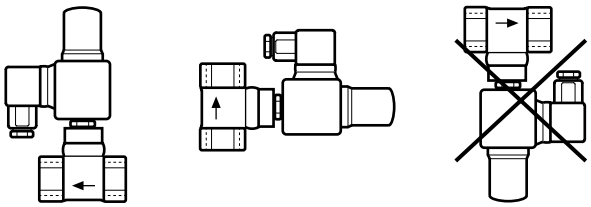
4. TECHNICAL DATA

Power supply	230 V~, 24 V~ or 12 V–	Room temperature	– 15...+60 °C
Voltage tolerance	– 15...+10 %	Coil temperature	~70°C
Consumption	see table (3)	Installation	within 90° of vertical
Protection	IP 54	Construction	
Pressacavo	DIN PG 9 connector	– valve body	OT 58 brass
Attachment	threaded female gas	– gasket	NBR (UNI 4916-74)
Closure time	< 1 second	– pressure spring and reset spindle	AISI 302 steel

5. INSTALLATION

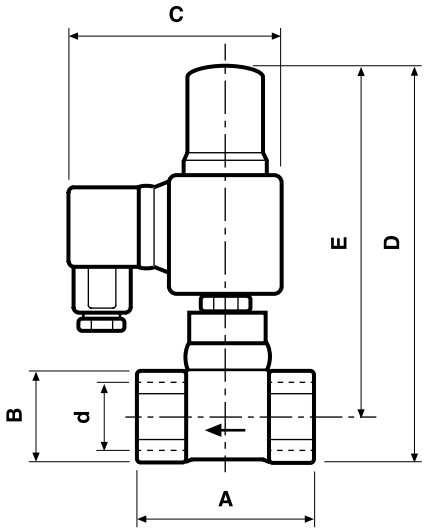
- Position the valve downstream of the meter and outside the premises through which the gas pipe passes.
- If placed outside it must be protected from the weather.
- Ensure that there are no residues from soldering or threading in the pipes.
- Check the alignment of the pipes and make sure that they are not subject to vibration.
- 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 if it should be necessary and for air to circulate around the coil.
- Never use the coil as a lever and employ suitable tools on the seats of the valve body.
- When the installation is completed check that the valve is gas-tight.

5.1 Typical installation



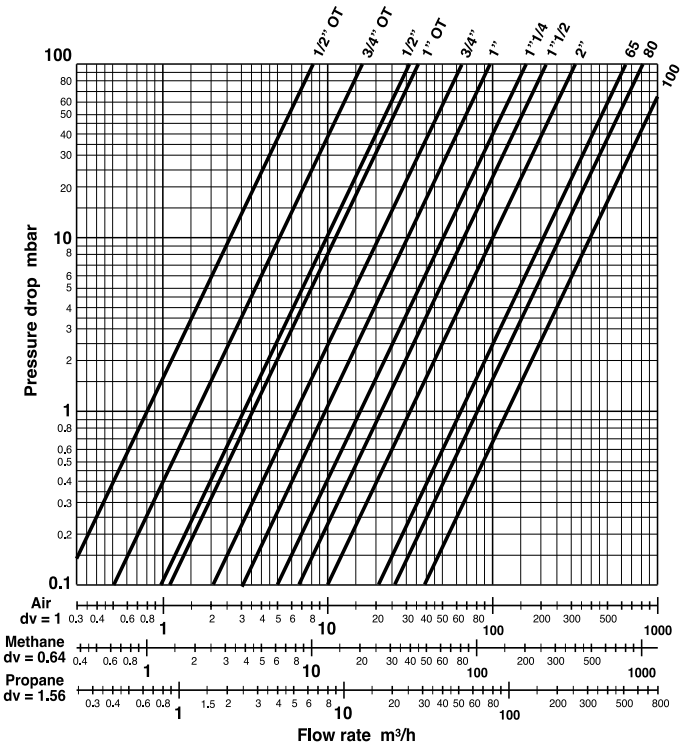
YES YES NO

6. OVERALL DIMENSIONS



Model	d DN	A mm	B mm	C mm	D mm	E mm	Weight kg
815/OT	1/2"	47	30	70	120	105	0.42
820/OT	3/4"	55	35	70	120	105	0.54
825/OT	1"	63	45	70	120	105	0.66

7. PRESSURE DROP



8. ELECTRICAL WIRING & MAINTENANCE

The two connecting wires must be connected to the two opposite poles of the connector, while the central one goes to earth.
Make the electrical connections to the connector when installing. Make sure that the cable entry gland is not pointing upwards in order to avoid water or humidity entering it and causing damage.
To remove the coil, first turn off the power supply, uncouple the connector and then remove the manual reset milled nut by unscrewing it. Unscrew the nut on the head of the connector and remove 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.

MC 11.01.02 Rev. : MZ 18.05.04

COSTER
CIE CONTROLLI TEMPERATURA ENERGIA
COSTER TECNOLOGIE ELETTRONICHE S.p.A.

Head Office & Sales
Via San G.B. De La Salle, 4/a 20132 - Milan
Tel. +39.022722121 Fax. +39.022593645

Reg. Office Central & Southern
Via S. Longanesi, 14 00146 - Rome
Tel. +39.065573330 Fax.+39.065566517

Orders and Shipping
Via Gen. Treboldi 190/192 25048 - Edolo (BS)
Tel. +39.0364773200 Tel. +39.0364773202 Fax.+39.0364770016

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

ISO 9001: 2000
IQNet
Registration Number: IT - 34674
CSQ - Certificate N. 9115.COEE

D 33206