

N.O. GAS SOLENOID VALVES WITH MANUAL RESET

GRA ... / OT Eng.



- Brass body
- NBR gaskets
- Rapid closure when powered
- Ideal for installation in domestic premises

1. APPLICATION

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

2. OPERATION

GRA/OT is a N.O. rapid-action safety valve with manual reset. It is accordingly essential to open and set by hand the mechanism that permits this state to be maintained. Powering the coil brings about the release of the mechanism and the closure of the valve. As long as the valve is live it cannot be reset. Being under continuous power can cause overheating of the coil but this is not dangerous and will not cause damage.

3. MODELS AVAILABLE

Code	Attachmet DN	Power supply V	Consumption W	Max. press ⁽¹⁾ mbar	Bore ø mm	Flow rate m ³ /h ⁽²⁾		Certification
						0.5 mbar	1 mbar	
GRA 815/OT	1/2"	230 V~	16	500	18	0.7	1	Present legislation does not provide for the certification of N.O. valves.
GRA 415/OT	1/2"	24 V~	22	500	18	0.7	1	
GRA 215/OT	1/2"	12 V-	22	500	18	0.7	1	
GRA 820/OT	3/4"	230 V~	16	500	27	1.4	2	
GRA 420/OT	3/4"	24 V~	22	500	27	1.4	2	
GRA 220/OT	3/4"	12 V-	22	500	27	1.4	2	
GRA 825/OT	1"	230 V~	16	500	27	3	4.3	
GRA 425/OT	1"	24 V~	22	500	27	3	4.3	
GRA 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).

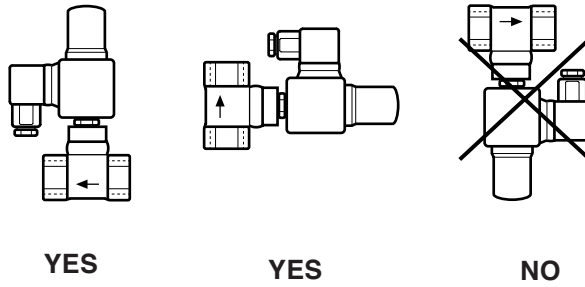
4. TECHNICAL DATA

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

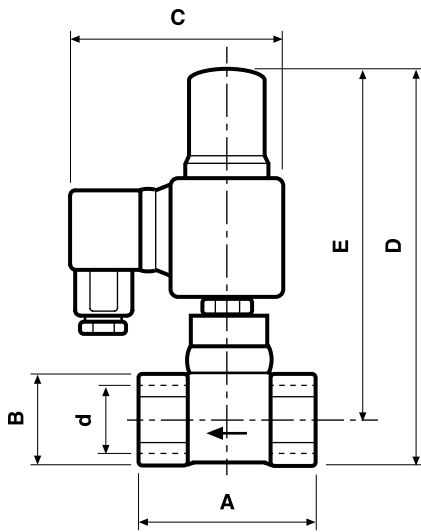
5. INSTALLATION

- 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 installation is completed check that the valve is gas-tight.

5.1 Typical installation

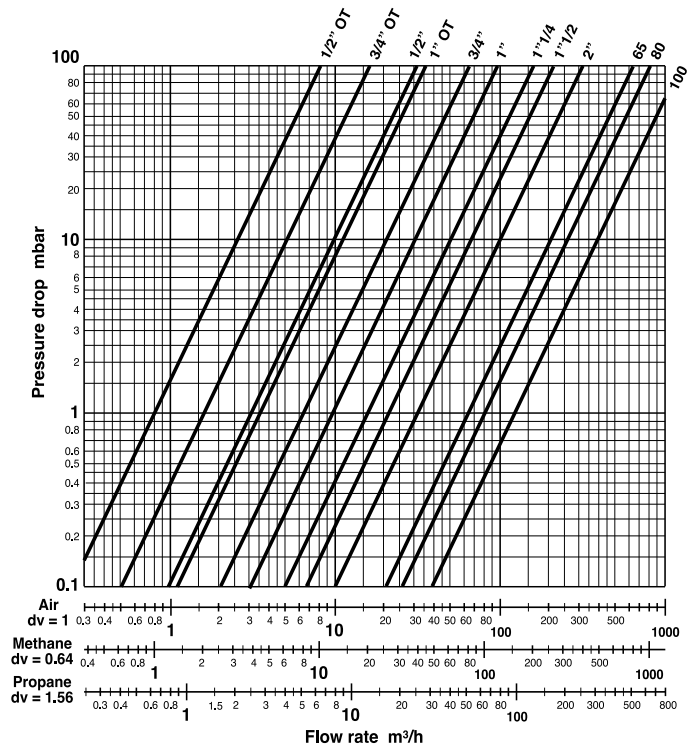


6. OVERALL DIMENSIONS



Model	d DN	A mm	B mm	C mm	D mm	E mm	Weight kg
815/OT	1/2"	47	30	70	126	110	0.42
820/OT	3/4"	55	35	70	126	110	0.54
825/OT	1"	63	45	70	126	110	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 latter 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



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