



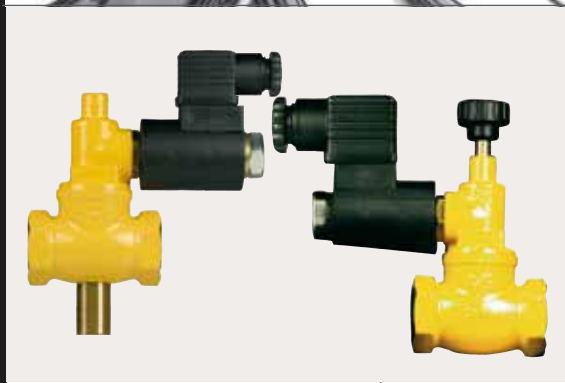
TECHNICAL CATALOGUE

GAS LEAK DETECTOR AND SOLENOID SAFETY VALVES



ITAP SpA, founded in Lumezzane (Brescia) in 1972, is currently one of the leading production companies in Italy of valves, fittings and distribution manifolds for plumbing and heating systems. Thanks to fully automated production processes, with 72 tooling machines and 51 assembly lines, we are able to produce 200,000 pieces per day. Our innate pursuit for innovation and observance of technical regulations is supported by the company certification ISO 9001: 2008. The company has always considered its focus on quality as the main tool to obtain significant business results: today ITAP SpA is proud to offer products bearing the approval of numerous international certifying bodies.

Made in Italy



GAS LEAK DETECTOR AND SOLENOID SAFETY VALVES



A large, faded, light-gray image of industrial machinery, including a vertical tank and a horizontal pipe with a valve, serves as the background for the page.

GAS LEAK
DETECTOR AND
SOLENOID SAFETY
VALVES

GAS SAFETY VALVES

992

GAS LEAK DETECTOR
WITH OPTICAL-ACOUSTIC
ALARM AND RELAY
CONTROL



SIZE	CODE	PACKING
-	992M	1/0
-	992G	1/0

TECHNICAL SPECIFICATIONS

AVAILABLE FOR METHANE GAS AND LPG.

Leds: power supply (green), failure (yellow), alarm (red).

Optical (red led) and acoustic (internal buzzer 87dBA) alarms.

Provided with realy output.

Power supply: 230Vac.

Max electrical input: 20mA 230Vac.

Max relay contact load: 8A.

Class of protection: IP 42.

Working temperature: -10°C, 40°C.

Working relative humidity: 30%, 90%.

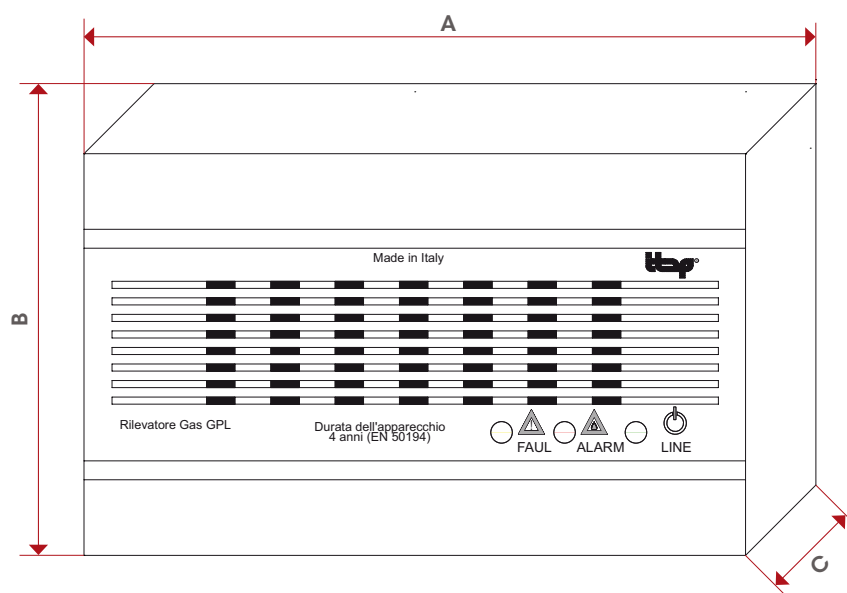
Alarm level: gas concentration equal to 10% of L.E.L. (Low Exposition Limit).

4 years after installation date the device must be put out of order and replaced with a new unit.

Dimension: 138x85x44 mm.

CEI UNI EN 50194.

OVERALL DIMENSIONS



	992G	992M
A	119	119
B	82	82
C	32,5	32,5



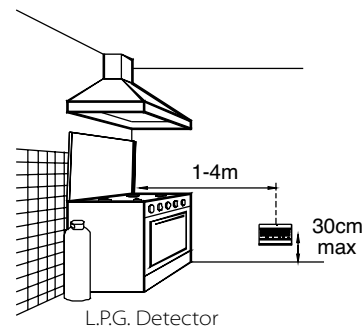
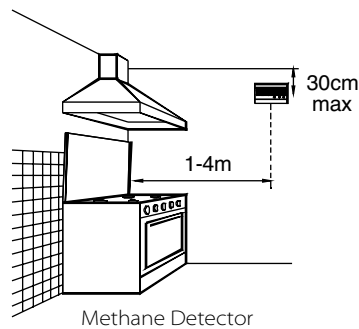
Attention: the installation and the out of service of the instrument must be done by skilled personnel only.

The installation of gas and the possible stopping device must be in according to the national and in force prescriptions law.

DETECTOR POSITIONING

The instrument have to be installed:

- the 992 M for methane should be fixed at a maximum distance of 30 cm from the ceiling.
- the 992 G for LPG should be fixed at a maximum distance of 30 cm from the floor.
- They should be fixed at a distance comprises from 1 meter and 4 meters by the gas device (kitchen, boiler room, etc...)
- Possibly in every room in which there is a gas device and, in the residences with more that one floor, at least one for each floor.

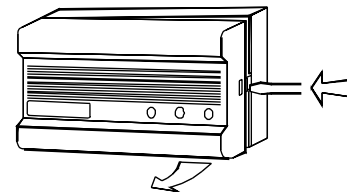


Avoid installing:

- Directly over the sink or the gas device in little locals where can be utilised alcohol, ammonia, spray bottles of gas or other substances with flying solvents.
- In low ventilated environments or near to walls or obstacles that can stop the gas flow from the user to the detector, or near to exhausters or fans that can divert the air flow.
- In environment in which the temperature can arrive over 40°C or under -10°C.
- In environment with a lot of humidity or vapours.

INSTALLATION PROCEDURES

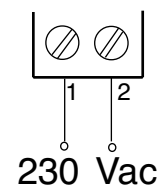
- By using a screwdriver unscrew on the right hand side the instrument and uncover it.
- The box cover has to be positioned on the three form point or on the wall, by using the screws and plugs available.



ELECTRICAL CONNECTION

POWER SUPPLY

- Attention: the electrical connection has to be done with an under track cable.
- The gas detector 992 have to be powered at 230Vac by the terminals 1 and 2
- It has to be provided with an device, to be disowned from the detector and the feeding net, as written in the European Standard EN 60335-1.



CHARACTERISTICS OF THE EXIT-SIGNAL

- The detector 992 is provided with an external relay with free tension contacts, capacity of connection 3(1)A 250Vac / 2A 24Vcc.

ELECTRO-VALVES CONNECTION

- The gas detector 992 has inside a jumper that permits to select the type of electro-valve to connect that can be Normally Opened type or Normally Closed type.
- We remind that the valve should be installed on the gas pipes outside the room under control, since protection is useless if a gas leak occurs at the beginning of the gas pipe.



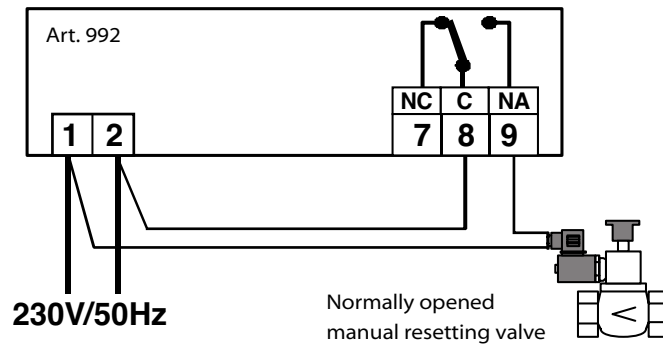
Positioning N.O.: proper for normally opened valves



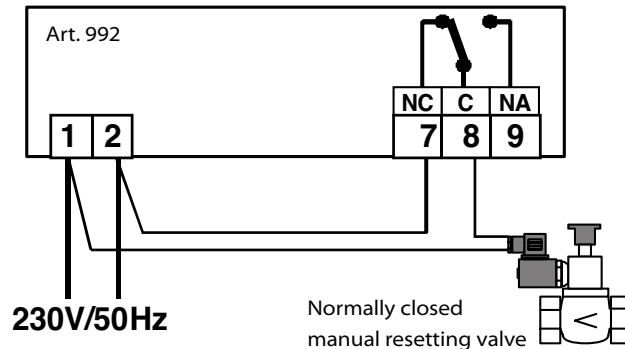
Positioning N.C.: proper for normally closed valves or for the contemporaneously check of both electrovalve and an external electrical charge.

MANUFACTURER INSTRUCTIONS

OPERATIONAL WITH NORMALLY OPENED VALVE (N.O.)



OPERATIONAL WITH NORMALLY CLOSED VALVE (N.C.)



PERIODICAL TESTING

We recommend to contact the installer at least once a year for a general verification

IMPORTANT: Do not use pure gas, such as a lighter, directly on the sensor since the sensor could be irretrievably damaged.

OPERATIONAL CHECK

After the installation it is possible to check the correct operational of the instrument by pushing for at least 2 seconds the TEST button on the board, in this way all the leds will be alight, the acoustic alarm and the relay will be on for 5 second. At this point it will be necessary to rearm the electro valve connected.

WARNING

For the cleaning, use an cloth on the top. Not be opened, it could cause damage.

Note that the sensor employed has a good resistance towards products such as sprays, detergents, alcohol, glues and paints.

However, these products could contain substances which, if in great quantity, could interfere with the sensor and cause false alarms.

We recommend to ventilate the room should products like these be used.

Note that the detector is not able to detect gas leaks occurring outside the room where it is installed, neither inside walls nor under the floor.

To make gas (methane and LPG) nose identifiable, gas is added with a particularly disturbing smelling substance.

Small gas quantities coming out from left open cookers for some minutes do not cause the gas detector alarm signalling even if it is clearly nose perceptible; in fact the quantity of gas presents in the environment can be under the alarm threshold.

Please remember that the gas detector cannot work without power supply.

WARNING!! In case of alarm:

- 1) Extinguish all naked flames
 - 2) Turn off the gas supply at the gas emergency control and/or, with a LPG supply, the storage tank
 - 3) Do not switch on or off any electrical lights. Do not activate any electrically powered devices
 - 4) Open both doors and windows to increase room ventilation
- If the alarm stops, it is necessary to identify the alarm reason and act accordingly
If the alarm condition continues and the cause of the leak is not apparent and/or cannot be corrected, vacate the premises and immediately notify the gas emergency service.



993

SOLENOID SAFETY VALVE, NORMALLY OPEN



M

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	550mbar/8psi	9930012M	1/0
3/4" (DN 20)	550mbar/8psi	9930034M	1/0
1" (DN 25)	550mbar/8psi	9930100M	1/0
1"1/4 (DN 32)	550mbar/8psi	9930114M	1/0
1"1/2 (DN 40)	550mbar/8psi	9930112M	1/0
2" (DN 50)	550mbar/8psi	9930200M	1/0



G

SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	6bar/87psi	9930012G	1/0
3/4" (DN 20)	6bar/87psi	9930034G	1/0
1" (DN 25)	6bar/87psi	9930100G	1/0
1"1/4 (DN 32)	6bar/87psi	9930114G	1/0
1"1/2 (DN 40)	6bar/87psi	9930112G	1/0
2" (DN 50)	6bar/87psi	9930200G	1/0

TECHNICAL SPECIFICATIONS

Available for maximum pressure of 550 mbar (8psi) and 6 bar (87 psi).

Body in brass.

Class of protection: IP 65.

Female threads ISO228

(equivalent to DIN EN ISO 228 and BS EN ISO 228).

Power supply: 230 Vac.

Power input: 17 VA and 19 W.

Working temperature: -15°C, 70°C.

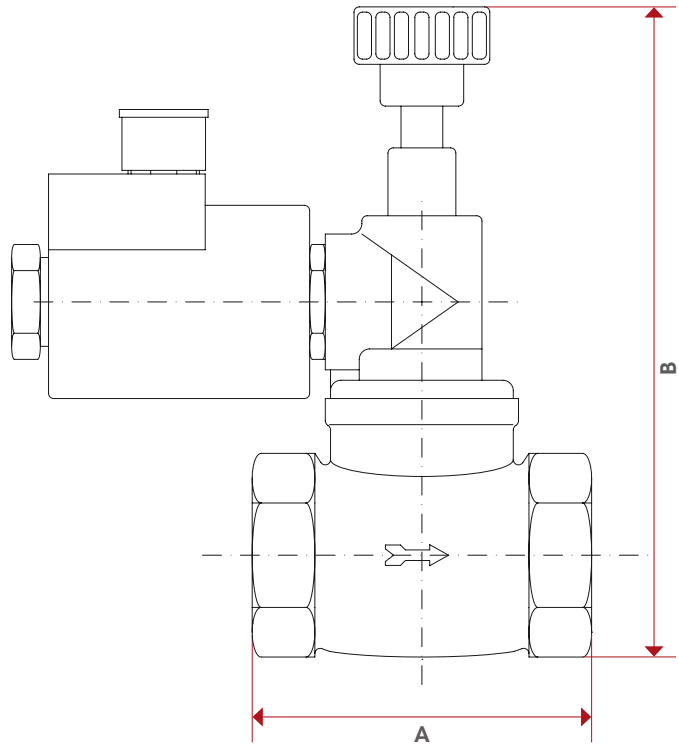
Closing time: <1sec.

Maximum working pressure: 550mbar or 6bar.

Manual reset in compliance with CEI UNI EN 50194 regulation.

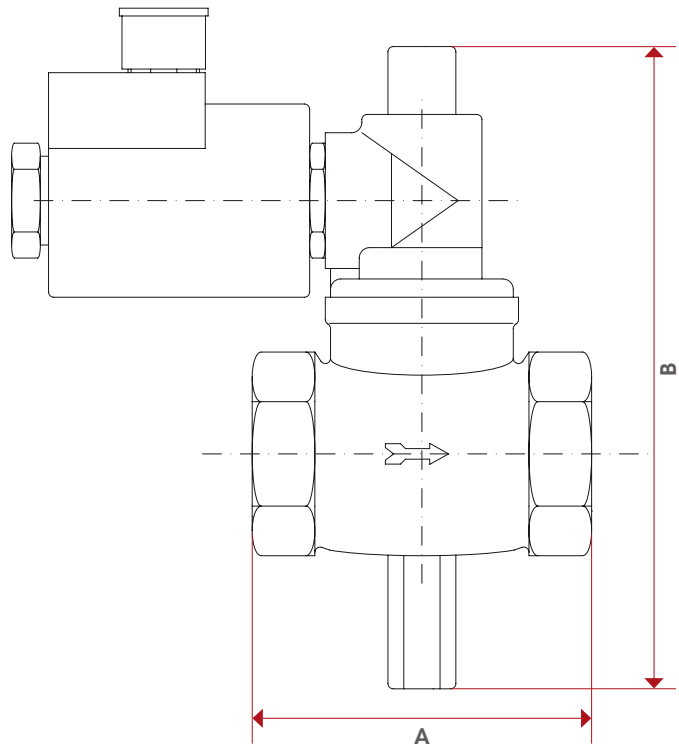
Approved under directive PED 97/23/CE

OVERALL DIMENSIONS
ART.993M



	1/2"	3/4"	1"	1"1/4	1"1/2	2"
A	65	65	78	114	114	139
B	125	125	130	174	174	182

OVERALL DIMENSIONS
ART.993G



	1/2"	3/4"	1"	1"1/4	1"1/2	2"
A	65	65	78	114	114	139
B	165	165	170	195	195	200



MANUFACTURER INSTRUCTIONS

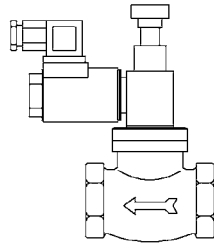
Installation and positioning

Read instructions before use.

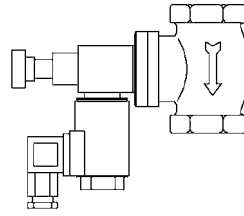
This control must be installed in accordance with the rules in force.

The solenoid valve must be positioned with the arrow stamped on the body turned towards the user appliance. The valve must be positioned upstream of the regulation apparatus and preferably outside the measurement zone.

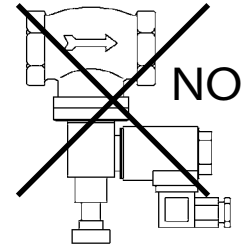
N.B. Please install the valve sheltered from the atmospheres agent.



Horizontal position



Vertical position



Overturned position

Maintenance

The solenoid valve's intervention 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.

998

GAS SAFETY KIT



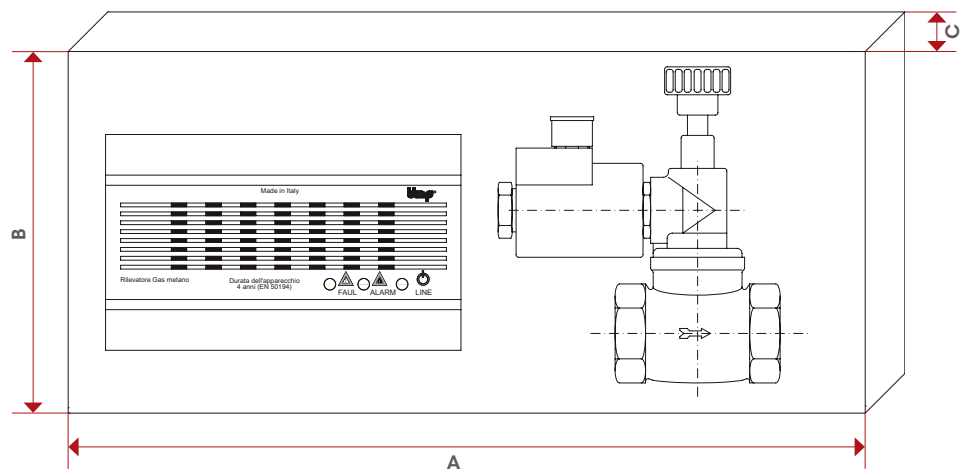
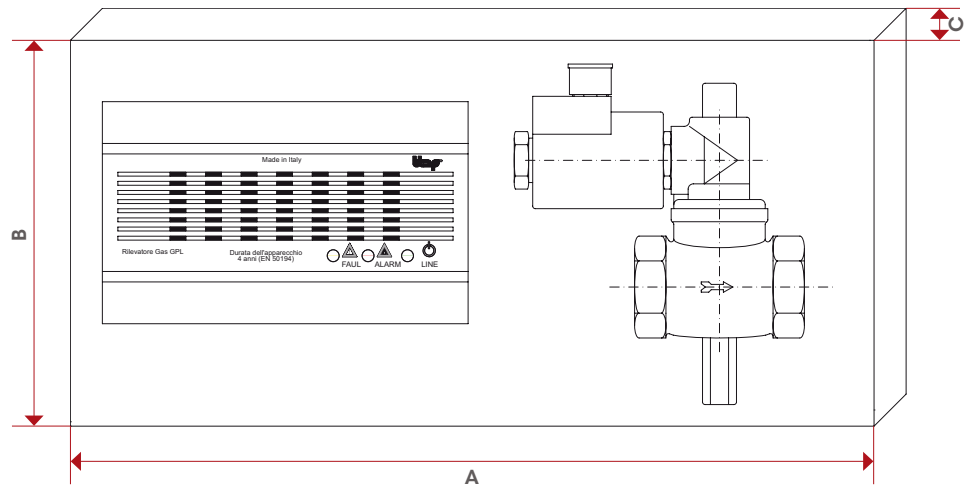
SIZE	PRESSURE	CODE	PACKING
1/2" (DN 15)	550mbar/8psi	9980012M	1/0
3/4" (DN 20)	550mbar/8psi	9980034M	1/0
1/2" (DN 15)	6bar/87psi	9980012G	1/0
3/4" (DN 20)	6bar/87psi	9980034G	1/0

TECHNICAL SPECIFICATIONS

AVAILABLE FOR METHANE GAS AND LPG.

Consisting of a gas leak detector (Art. 992) and a solenoid safety valve - normally open, 230 Vac (Art. 993).

OVERALL DIMENSIONS



	1/2"	3/4"
A	300	300
B	150	150
C	50	50





NOTES

Handwriting practice area consisting of 20 horizontal dashed lines.



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