

# SOLENOID VALVES AIR/GAS LINES

2020





▶ Visit our websites: [www.gazdetect.com](http://www.gazdetect.com)  
Online store: [www.safetygas.com](http://www.safetygas.com)

# Sommaire

## ► **Solenoïde valves & AIR/GAS lines**

Manual reset solenoid valve for gas 500 mb - ELK600 .....	4
Manual reset solenoid valve for gas 6 bars - ELK900 .....	5
Automatic reset solenoid valve for gas 360 mb - ELK700 .....	6
Automatic reset solenoid valve for gas 6 bars - ELK800 .....	7
Pressure switch AIR/GAZ low pressure - C6097 .....	8
Pressure switch AIR/GAZ high pressure - DWR .....	9
Safety box gas valve - BSVD .....	10
Valves & Manometers AIR/GAZ.....	11

## ▶ ELK600

### Manual reset solenoid valve for gas 500 mbar



#### Technical specifications

##### Connection:

- Threaded F/F gas from 3/8" to 2"
- Flanged PN16 UNI 2223 from DN65 to DN150

**Voltage:** 230V - 50/60 HZ

**On demand:** 110V - 50/60 HZ / 12-24 V - AC/DC

**Voltage tolerance:** -15% to +10%

**Operating temperature:** -15°C to + 60°C

**Operating pressure:** 500 mbar

**Open/close time:** <1 second

**Protection class:** IP65

**Cable gland:** DIN PG 9 plug

**Pressure gauge:** 1/4" on 2 sides

**Limit switch:** on demand



**Anti micro-power cuts device for manual reset gas solenoid valve.**

##### Technical specifications:

- Keeps the valve open for a 300ms to 1 second duration depending on the model
- Power voltage : 220 Vac 50 Hz (0.63 A fuse)

*Can be used with all manual reset solenoid valves.*

#### Product description

The **ELK600** series manual reset gas solenoid valves - Normally Closed - are constructed in such a way as to be able to guarantee, by their operation in positive safety, the shut-off of the gas supply in case of supply voltage default.

These must be constantly powered to allow gas flow and close automatically if the voltage is missing at the coil terminals.

These solenoid valves are qualified as "manual reset" because they require human intervention to return to their initial state after being triggered.

#### Codification

Code	Diameter	Connection	Max pressure	Power
ELK15006	3/8"	BSP	500 mbar	12 W
ELK15008	1/2"	BSP	500 mbar	12 W
ELK15010	3/4"	BSP	500 mbar	12 W
ELK15012	1"	BSP	500 mbar	12 W
ELK15014	1"1/4	BSP	500 mbar	12 W
ELK15016	1"1/2	BSP	500 mbar	12 W
ELK15018	2"	BSP	500 mbar	12 W
ELK15020	DN 65	Flanged	500 mbar	25 W
ELK15022	DN 80	Flanged	500 mbar	25 W
ELK15024	DN 100	Flanged	500 mbar	25 W
ELK15028	DN 125	Flanged	500 mbar	25 W
ELK15030	DN 150	Flanged	500 mbar	25 W
ELK15032	DN 200	Flanged	500 mbar	25 W

## ▶ ELK900

### 6 bar manual reset gas solenoid valve



#### Technical specifications

##### Connection:

- Threaded F/F gas from 3/8" to 2"
- Flanged PN16 UNI 2223 from DN65 to DN150

**Voltage:** 230V - 50/60 HZ

**On demand:** 110V - 50/60 HZ / 12-24 V - AC/DC

**Voltage tolerance:** -15% to +10%

**Operating temperature:** -15°C to + 60°C

**Operating pressure:** 6 bar

**Open/close time:** <1 second

**Protection class:** IP65

**Cable gland:** DIN PG 9 plug

**Pressure gauge:** 1/4" on 2 sides

**Limit switch:** on demand



**Anti micro-power cuts device for manual reset gas solenoid valve.**

##### Technical specifications:

- Keeps the valve open for a 300ms to 1 second duration depending on the model
- Power voltage : 220 Vac 50 Hz (0.63 A fuse)

*Can be used with all manual reset solenoid valves.*

#### Product description

The **ELK900** series manual reset gas safety solenoid valves - Normally Closed - are constructed in such a way as to be able to guarantee, by their operation in positive safety, the gas flow shut-off in case of a power supply failure.

These must be constantly powered to allow gas flow passage and close automatically if coil terminals are not powered.

These solenoid valves are said to be "manual reset" because they require human intervention to return to their initial state after having been triggered

#### Codification

Code	Diameter	Connection	Max pressure	Power
ELK17010	3/8"	BSP	6 bar	12 W
ELK17012	1/2"	BSP	6 bar	12 W
ELK17014	3/4"	BSP	6 bar	12 W
ELK17016	1"	BSP	6 bar	12 W
ELK17018	1"1/4	BSP	6 bar	12 W
ELK17020	1"1/2	BSP	6 bar	12 W
ELK17024	2"	BSP	6 bar	12 W
ELK17028	DN 65	Flanged	6 bar	25 W
ELK17030	DN 80	Flanged	6 bar	25 W
ELK17032	DN 100	Flanged	6 bar	25 W
ELK17034	DN 125	Flanged	6 bar	25 W
ELK17036	DN 150	Flanged	6 bar	25 W
ELK15032	DN 200	Flanged	500 mbar	25 W

## ▶ ELK700

### Automatic reset 360/500 mbar gas solenoid valve



#### Technical specifications

##### Connection:

- Threaded F/F gas from 3/8" to 2"
- Flanged PN16 UNI 2223 from DN65 to DN150

**Voltage:** 230V - 50/60 HZ

**On demand:** 110V - 50/60 HZ / 12-24 V - AC/DC

**Voltage tolerance:** -15% to +10%

**Operating temperature:** -15°C to +60°C

**Operating pressure:** 500 - 360 mbar

**Open / close time:** <1second

**Protection class:** IP 54

**Cable gland:** DIN PG 9 plug

**Pressure gauge:** 1/4" on 2 sides

**Limit switch:** on demand

**Standard:** EN161 compliant

**GASTEC PIN homologation:** 63AQ1350

#### Product description

**ELK700** series "A" class "A" gas solenoid valves with automatic reset are used for controlling and regulating gas flow in atmospheric and forced-air burners, gas boilers, ovens, incineration burners and other industrial applications involving gaseous fuels.

These automatic reset gas solenoid valves - Normally Closed - are constructed in such a way as to be able to guarantee, by their operation in positive safety, the gas shut-off in case of power supply default.

These must, in fact, be constantly powered to allow the gas flow passage and close automatically if the power fails at the coil terminals.

They are built in compliance with the European standard EN161 and GASTEC PIN: 63AQ1350 certified.

They are made of aluminum, and available from caliber 3/8 up to caliber DN150.

#### Codification

Code	Diameter	Connection	Max pressure	Power
ELK05014	3/8"	BSP	500 mbar	20 W
ELK05016	1/2"	BSP	500 mbar	20 W
ELK05018	3/4"	BSP	500 mbar	35 W
ELK05022	1"	BSP	500 mbar	35 W
ELK05026	1"1/4	BSP	500 mbar	45/180* W
ELK05028	1"1/2	BSP	500 mbar	45/180* W
ELK05030	2"	BSP	500 mbar	45/180* W
ELK05032	DN 65	Flanged	360 mbar	60/240* W
ELK05034	DN 80	Flanged	360 mbar	60/240
ELK05036	DN 100	Flanged	360 mbar	80/320*
ELK05037	DN 125	Flanged	360 mbar	90/360*
ELK05038	DN 150	Flanged	360 mbar	90/360*

\* Operating/Opening

## ▶ ELK800

### 6 bar automatic reset gas solenoid valve



#### Technical specifications

##### Connection:

- Threaded F/F gas from 3/8" to 2"
- Flanged PN16 UNI 2223 from DN65 to DN150

**Voltage:** 230V - 50/60 HZ

**On demand:** 110V - 50/60 HZ / 12-24 V - AC/DC

**Voltage tolerance:** -15% ÷ +10%

**Operating temperature:** -15°C ÷ +60°C

**Operating pressure:** 6 bar

**Open / close time:** <1second

**Protection class:** IP 54

**Cable gland:** DIN PG 9 plug

**Pressure gauge:** 1/4" on 2 sides

**Limit switch:** on demand

**Standard:** EN161 compliant

**GASTEC PIN homologation:** 63AQ1350

#### Product description

The **ELK800** series "A" class "A" gas solenoid valves with automatic reset are used for controlling and regulating the gas flow in atmospheric and forced-air burners, gas boilers, ovens, incineration burners and other industrial applications involving gaseous fuels.

These automatic reset gas safety solenoid valves - Normally Closed - are constructed in such a way as to be able to guarantee, by their operation in positive safety, the gas flow shut-off in case of power supply default.

These must, in fact, be constantly powered to allow the passage of the gas flow and close automatically if the power fails at the coil terminals.

They are built in compliance with the EN161 European standard and are GASTEC PIN: 63AQ1350 certified.

They are made of aluminum, and available from the 3/8 up to the DN100 diameter.

#### Codification

Code	Diameter	Connection	Max pressure	Power
ELK07002	3/8"	BSP	6 bar	20 W
ELK07004	1/2"	BSP	6 bar	20 W
ELK07006	3/4"	BSP	6 bar	35 W
ELK07008	1"	BSP	6 bar	35 W
ELK07010	1"1/4	BSP	6 bar	45/180* W
ELK07012	1"1/2	BSP	6 bar	45/180* W
ELK07014	2"	BSP	6 bar	45/180* W
ELK07016	DN 65	Brides	360 mbar	60/240* W
ELK07018	DN 80	Brides	360 mbar	60/240
ELK07020	DN 100	Brides	360 mbar	80/320*
ELK05037	DN 125	Brides	360 mbar	90/360*
ELK05038	DN 150	Brides	360 mbar	90/360*

\* Operating/Opening

## ► C6097

### Pressure switch



### Technical specifications

**Pressure tap:** Positive pressure ports: RP 1/4 "thread (x2). There are two positive pressure taps: one perpendicular, in the center of the lower part of the device, on the other side for horizontal mounting. Pressure test point for differential pressure: RP 1/8 "thread. All threads are ISO 7-1 compliant.

**Setpoint accuracy:**

±15 % of the total scale (when pressure increases)

*Note: the graduation of the set point adjustment dial is an approximate reflection of the actual set point. The graduation is in mBar.*

**Torsion and resistance to mechanical stress:** The tapping is EN 161 group 2 compliant.

**Contact rating:**

- Resistive load: 250 Vac - 5A
- Inductive load: Cos φ: 0,6
- Minimum applicable power: 50 mA, 24 Vac

**Nature of pressure sensitive elements:** Simple NBR diaphragm

**Housing materials:** Die-cast aluminum

**Housing material:** Polybutylene terephthalate

**Cover material:** Polycarbonate

**Operating ambient temperature:** -15°C to +60°C

**Relative humidity:**

Admissible maximum: 90 % to 40°C (without condensation)

**Monitored fluid temperature:** -15°C to +80°C

### Product description

The **C6097** pressure switch is used to detect gas pressure such as natural gas, LPG, air, etc.

As the pressure varies, the receiving diaphragm detects it and activates the On / Off contact (SPDT) of the external control circuit.

These pressure switches are commonly used to monitor minimum or maximum pressure of gas, burner air supply or to detect clogging of a gas burner's filter equipped with a fan.

### Codification

Model	Operating pressure range (mBar)	Operating pressure differential (mBar)	Max. allowable pressure (mBar)
C6097A2110	1 ... 10	0,4	200
C6097A2210	2,5 ... 50	0,6	300
C6097A2310	30 ... 150	2,8	500
C6097A2410	100 ... 500	7,0	600

## ► DWR

### AIR/GAS pressure switch



#### Technical specifications

**Use:** vapor, hot water, combustible gas, liquid combustible

**Control base:**

- Pressure 100/1, ed.4.83
- DIN 3398, page 3, ed.11.82
- DIN 3398, page 4, ed.10.86

**Registration number:**

- TUV. DWFS (SDBFS) 95-218
- 95.01 b 187
- 3C02 895 + 94.01. b 187

**Function:** Pressure relief (with internal or external lock)

**Action direction:** for maximum and minimum pressure monitoring (DWFS, SDBFS)

**Sensor:** special built tested with 2 millions cycles

**Contactors:** single pole changeover switch

**Power switch capacity:** 8 A, 250 Vdc

**Mounting position:** vertical or horizontal

**Pressure connection:**

G1/2A external thread (pressure gauge connection) by DIN 16288 and G1/4 internal thread by ISO 228, part 1. (For gas applications, starting at 4 bar only use flat seal. A seal is only authorized in the thread up to 4 bar)

**Switching device:** Robust sea water resistant aluminum pressure cast housing with plug-in socket or terminal connection

**Protection:** IP54 by DIN IEC 529 (IP65 optional)

#### Product description

FEMA range pressure switches can be used for monitoring liquid or gaseous fuels, steam or hot water maximum and minimum pressures.

They withstand ambient temperatures ranging from - 25°C to + 70°C depending on the series. These high precision devices are set and adjusted at the factory.

- Stainless steel sensitive elements
- Fixed differential (adjustable in option)
- Oxygen treatment (optional)

DWR pressure switches have a DIN connection.

#### Codification

Code	Range	Differential	Max pressure
DWR 2	0,2 to 2,5 bar	0,1 bar	16 bar
DWR 6 *	0,5 to 6 bar	0,2 bar	16 bar
DWR 16	3 to 16 bar	0,5 bar	25 bar
DWR 25	4 to 25 bar	1,0 bar	63 bar
DWR 40	10 to 40 bar	1,3 bar	63 bar

\*Standard product in stock

## ► Gas Outlet Box

### Safety box gas valve



#### Key box



Key box

Made of steel sheet, the **key safety box** is supplied as standard with lock and glass.

The box is coated with red epoxy paint, which is particularly resistant to corrosion and bleaching.

An emergency hammer with chain and support can be ordered as a supplement.

**Material :** steel sheet  
**Dimensions :** 160 x 120 x 50 mm  
**Weight :** approx 430 g



Emergency hammer

#### Gas outlet box accessories

Code	Dimensions
118 0030	Key box
118 0033	Emergency hammer
118 0031	Police valve box
118 0032	Barrel + Gas outlet box

#### Product description

The **safety box gas valve** is designed to receive gas barrier taps and valves.

It is made with steel sheets. Covered in red epoxy paint, the **Gas outlet box** is particularly resistant to corrosion and bleaching.

It is supplied as standard with lock and plexiglass. In addition an emergency hammer with chain and support can be ordered in addition.

Choosing a **safety box gas valve** is made based on its size:

#### Dimensions

Code	Dimensions
118 0019	250 x 250 x 150 mm
118 0020	300 x 200 x 130 mm
118 0021	300 x 300 x 200 mm
118 0024	450 x 450 x 250 mm
118 0022	600 x 600 x 300 mm
118 0023	600 x 600 x 450 mm

#### Weight (Material: steel sheet)

Code	Weight
118 0019	approx 2,0 kg
118 0020	approx 1,9 kg
118 0021	approx 2,9 kg
118 0024	approx 5,5 kg
118 0022	approx 11 kg
118 0023	approx 14 kg

# ► Gas Line Accessories

## Valves & Manometers



## Manometers



### Gas Manometer

- Connection: 1/2" G Male
- Dial diameter: 100 mm
- Class: 1,6
- 111 series: ABS case
- Maximum temperature: 60°C - IP43



### Isolation valve with special gas push button:

- Isolates the manometer & does not leave the manometer under pressure
- Connection female/female 1/2" Gas

Designation	Item code
Manometer DN100 0 - 100 mbar	ROS22008
Manometer DN100 0 - 600 mbar	ROS22016
Manometer DN100 0 - 1 bar	ROS50014
Manometer DN100 0 - 6 bar	ROS50022
Isolation valve with push button	ROS71418

## Technical specifications

### ► Classic version

Caliber	Classic version
Gas valve 1/4"	ROB05001
Gas valve 3/8"	ROB05003
Gas valve 1/2"	ROB05002
Gas valve 3/4"	ROB05004
Gas valve 1"	ROB05006
Gas valve 1" 1/4	ROB05008
Gas valve 1" 1/2	ROB05010
Gas valve 2"	ROB05012
Gas valve 2" 1/2	ROB05014
Gas valve 3"	ROB05016
Gas valve 4"	ROB05018

### ► Padlockable version

Special gas barrier ball valve with yellow plastic-coated steel handle - compliant with the EN331 standard.

- Connection: female/female Gas
- Ambient temperature: -20°C to + 160°C

Caliber	Padlockable version
Gas valve 3/8"	ROB10002
Gas valve 1/2"	ROB10004
Gas valve 3/4"	ROB10006
Gas valve 1"	ROB10008
Gas valve 1" 1/4	ROB10010
Gas valve 1" 1/2	ROB10012
Gas valve 2"	ROB10014



▶ Visit our websites: [www.gazdetect.com](http://www.gazdetect.com)  
Online store: [www.safetygas.com](http://www.safetygas.com)





▶ Visit our websites: [www.gazdetect.com](http://www.gazdetect.com)  
Online store: [www.safetygas.com](http://www.safetygas.com)