

# Vent gas solenoid valve

LGV/5

6.24

**DUNGS®**  
Combustion Controls



## Technical description

The DUNGS vent gas solenoid valve LGV/5 is a normally when open, automatic pressure relief as per EN 161 for gas burners and gas appliances.

- Max. operating pressure: 500 mbar (50 kPa)
- Class A, Group 2 as per EN 16304
- **normally open (N.O.)**
- Fast closing
- Fast opening
- DC solenoid, rectifier wiring with radio suppression interference in terminal box
- Mountable closed position signal contact to monitor closed position of valve
- Reliable function, rugged and maintenance-free
- It does not contain any non-ferrous metals, suitable for gases of up to max. 0.1 vol.% H<sub>2</sub>S, dry

## Application

The DUNGS vent gas solenoid valve LGV/5 is suitable for gases of families 1, 2, 3 and other neutral gaseous media.

The vent gas solenoid valve is used for the shut-off and release of upstream gas volumes.

## Approval

EC type test approval as per EC Gas Appliance Directive:

LGV 50../5 CE-0085 AP0224

EC type test approval as per EC Pressure Equipment Directive:

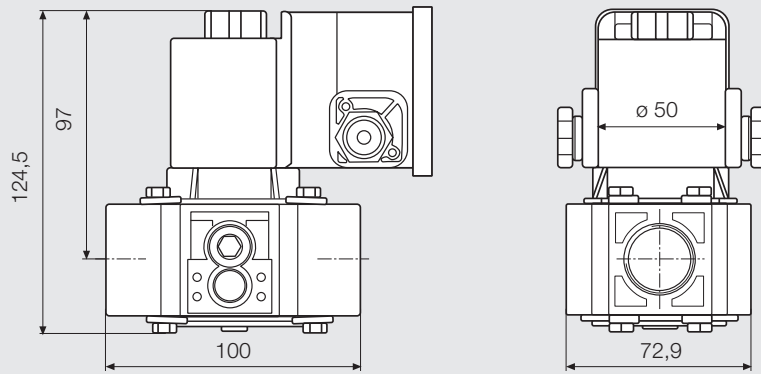
LGV 50../5 CE0036

Approvals in other important gas consuming countries.

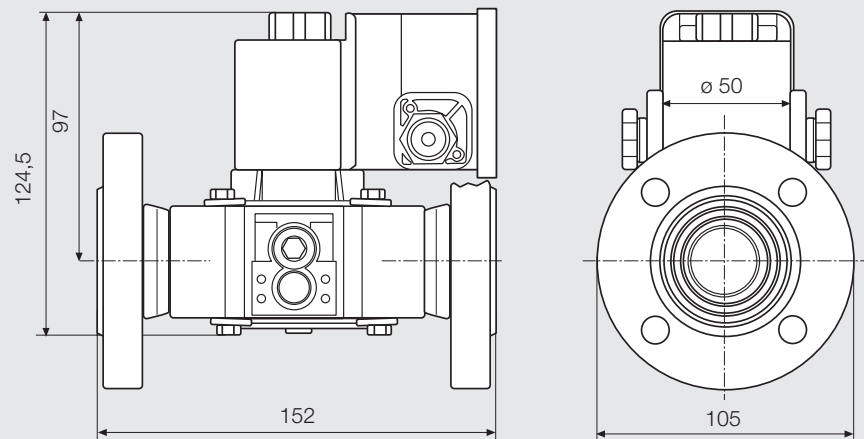
Specifications

|                                   |                                                                                                                                            |                                                     |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Nominal diameters                 | DN 20                                                                                                                                      |                                                     |
| Pipe thread as per ISO 7/1        | Rp 3/4                                                                                                                                     |                                                     |
| Flange                            | Connection flange as per DIN EN 1092-1                                                                                                     |                                                     |
| Max. operating pressure           | 500 mbar (50 kPa)                                                                                                                          |                                                     |
| Solenoid valve                    | Valve as per EN 16304                                                                                                                      |                                                     |
| Closing time                      | < 1 s                                                                                                                                      |                                                     |
| Opening time                      | < 1 s                                                                                                                                      |                                                     |
| Materials of gas-conveying parts  | Housing:                                                                                                                                   | aluminium, steel, not containing non-ferrous metals |
|                                   | Seals:                                                                                                                                     | NBR basis                                           |
| Voltage/frequency                 | 50-60 Hz, 230 V AC (+10% -15%); further voltages on request                                                                                |                                                     |
| Rating / power consumption        | 15 VA/0.08 A, at 20°C and 230 VAC                                                                                                          |                                                     |
| Switch-on duration                | 100 %                                                                                                                                      |                                                     |
| Degree of protection              | IP 54, IP 65 on request                                                                                                                    |                                                     |
| Electrical connection             | At screw terminals via PG* 11 cable gland (* = heavy-gauge conduit thread)<br>Plug connection as per DIN EN 175301-803, can be retrofitted |                                                     |
| Switching rate                    | Max. 1000/h                                                                                                                                |                                                     |
| Measuring/ignition gas connection | G 1/4 ISO 228, on both sides in inlet section                                                                                              |                                                     |
| Ambient temperature               | -15°C to +60°C                                                                                                                             |                                                     |
| Installation position             | Solenoid from vertically upright to horizontally lying                                                                                     |                                                     |
| Closed position signal contact    | Type K01/1 (DIN-tested), mountable on LGV 5.../5                                                                                           |                                                     |
| Accessories                       | K01/1 closed position signal contact, see Datasheet 12.01                                                                                  | 211 202                                             |
|                                   | Equipment plug for line socket as per DIN EN 175301-803                                                                                    | 215 733                                             |

**Dimensions [mm]**  
**LGV 507/5**



**Dimensions [mm]**  
**LGV 5020/5**



| Type       | $p_{max.}$ [mbar] | Rp / DN | Order No. | Weight |
|------------|-------------------|---------|-----------|--------|
| LGV 507 /5 | 500               | Rp 3 /4 | 119 271   | 1.3    |
| LGV 5020/5 | 500               | DN 20   | 119 594   | 3.2    |

**Functional description**

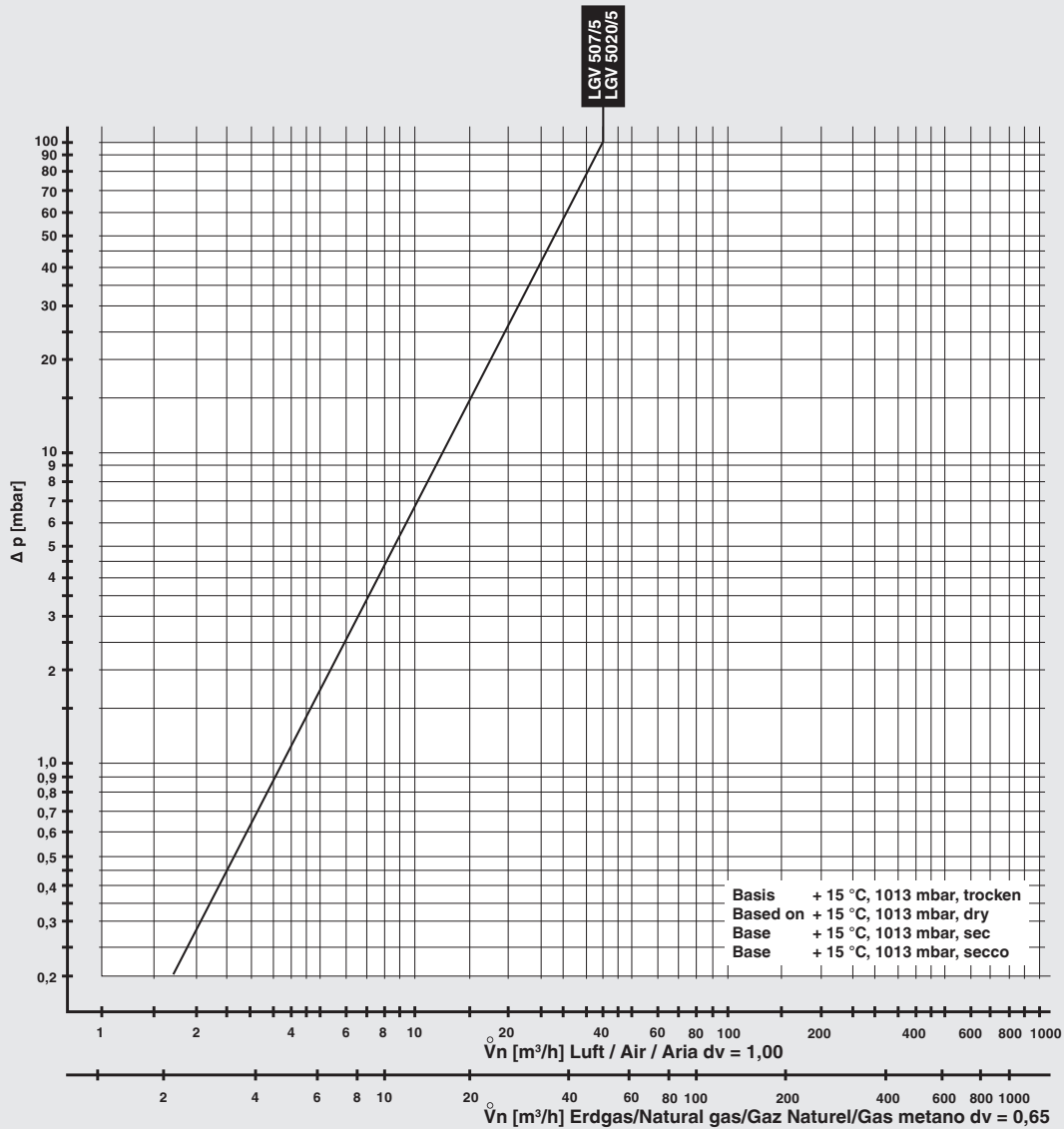
The DUNGS vent gas solenoid valve is an automatic shut-off valve operated with auxiliary power. The electromag-

netic drive closes against the force of the pressure spring. If the auxiliary power is interrupted (operating voltage), the pressure spring opens the

valve within 1 second.

The closed position of the valve can be monitored by a mountable closed position signal contact.

Flow diagram



We reserve the right to make any changes in the interest of technical progress.

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