**GAS VALVE**

**EGV SERIES**

0.5 BAR WORKING PRESSURE NORMALLY OPEN GAS VALVE

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**TECHNICAL SPECIFICATIONS and FEATURES**

EGV series manual reset gas valves which can be used on gas lines to shut the gas flow automatically according to input signal generated by third party equipment’s like gas alarm detectors, horns, ventilation equipment’s. Maximum allowed inlet pressure 0.5 Bar. Customers can choose suitable valves by looking pressure drop diagrams and dimensions.

EGV series manual reset gas valves are available with thread and flange connections. For non-corrosive gas usage all sealing equipment’s are manufactured by using H-NBR compound. Other materials are resistant for non-corrosive gases.

Covers are made by die casting aluminum or zinc which can be chosen by customers.

EGV series valve coils are made by in house production and can be manufactured wide range of voltage option (12V to 220V). Coils are changeable and rotatable.

Gas valves must be used with filtered fluids. Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure.

Gas valve can be mounted in any position without affecting operation; vertical with coil upwards preferred. Respect the direction of flow across the valve, shown with an arrow.

In our valve production facility all of performance tests are made by human independent automation tools to minimize error.


Standard connection is G (BSPP / ISO 228-1)

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**PERFORMANCE CHARACTERISTICS**

**Fluid Type:** Non-corrosive gasses

**Connection:** 1/2”, 3/4”, 1”, 1 1/4”, 1 1/2”, 2” Thread, 2 1/4”, 3”, 4” flange

**Ambient Temperature:** -20 °C +60 °C

**Way Number:** 2/2

**Function or Switching Type:** Normally Open

**Maximum Operating Pressure:** 0.5 Bar

**Minimum Operating Differential Pressure:** 0 Bar

**Design Pressure:** 2.5 bar

**Response Time:** Less than 1 second

**Note:** For coil’s electrical specification please look at ECO series technical page

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**MATERIAL INFORMATION**

**Valve Body and Cover:** Die cast aluminum or zinc.

**Diaphragm / Orings / Sealing Seat:** H-NBR

**Other Metal Internal Parts:** Aluminum and Brass

**Other Plastic Internal Parts:** POM – Nylon 6

**Springs:** Stainless Steel

**Valve Seat:** Aluminum

**Cover Screws:** Stainless Steel

**Shading Ring:** Copper

**Plunger:** Stainless Steel

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**MODEL NAME** | **NOMINAL DIAMETER (DN)** | **CONNECTIONS** | **CONNECTION TYPE** | **MAX WORKING PRESSURE** | **COIL OPTIONS**
--- | --- | --- | --- | --- | ---
EGV 1015 | 15 | 1/2” | THREAD | 0.5 bar | 12DC-24DC-220AC
EGV 1020 | 20 | 3/4” | THREAD | 0.5 bar | 12DC-24DC-220AC
EGV 1025 | 25 | 1” | THREAD | 0.5 bar | 12DC-24DC-220AC
EGV 1032 | 32 | 1 1/4” | THREAD | 0.5 bar | 12DC-24DC-220AC
EGV 1040 | 40 | 1 1/2” | THREAD | 0.5 bar | 12DC-24DC-220AC
EGV 1050 | 50 | 2” | THREAD | 0.5 bar | 12DC-24DC-220AC
EGV 1065 | 65 | 2 1/2” | FLANGE | 0.5 bar | 12DC-24DC-220AC
EGV 1080 | 80 | 3” | FLANGE | 0.5 bar | 12DC-24DC-220AC
EGV 1100 | 100 | 4” | FLANGE | 0.5 bar | 12DC-24DC-220AC
**OPTIONS**

**Voltage:** 12VDC - 24VDC – 220VAC  
**Flange:** EN or ANSI standards  
On request exproof coil, other connections are available NPT (ANSI 1.20.3), R (BSPT / ISO 7-1), W (BSW / Whitworth), M (Metric)...  
On request other special voltages, other frequencies are available (60 Hz) connector with LED is available, coil insulation class: F (155°C) Diaphragm seal FPM (-10°C to 160°C)

**CONVERSION**

According to technical calculations we shall suggest to avoid above 30 m/s gas velocity. You can choose the bigger valve nominal diameter in order to lower velocity. Please consider %10 tolerance.

To use our valves with another gases except methane, use the calculation below.

\[ Q_1 = Q_2 \times K \]

- **Q1** : Flow rate for the gas you need  
- **Q2** : Flow rate for methane  
- **K** : Flow conversation equal

<table>
<thead>
<tr>
<th>Fluid</th>
<th>K</th>
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<tbody>
<tr>
<td>Hydrogen</td>
<td>3.04</td>
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<tr>
<td>Town Gas</td>
<td>1.17</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>0.81</td>
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<tr>
<td>Nitrogen</td>
<td>0.80</td>
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<tr>
<td>Air</td>
<td>0.78</td>
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<tr>
<td>Oxygen</td>
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<tr>
<td>Lpg</td>
<td>0.63</td>
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<tr>
<td>Butane</td>
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</table>

*Flow conversion equal*
### Dimensions (mm)

#### EGV Series

**Model:** EGV 1015
- **Connection:** 1/2
- **Dimensions:**
  - A: 15
  - B: 122
  - C: 97
  - D: 91
  - E: 85.2
  - Weight: 55 gr
  - **Weight:** 430 gr

**Model:** EGV 1020
- **Connection:** 3/4
- **Dimensions:**
  - A: 20
  - B: 122
  - C: 97
  - D: 91
  - E: 85.2
  - Weight: 55 gr
  - **Weight:** 410 gr

**Model:** EGV 1025
- **Connection:** 1"
- **Dimensions:**
  - A: 25
  - B: 122
  - C: 97
  - D: 91
  - E: 85.2
  - Weight: 55 gr
  - **Weight:** 455 gr

#### Internal Parts

1. **Body**
2. **Upper Cover**
3. **Socket**
4. **Coil**

#### EGV Series

**Model:** EGV 1032
- **Connection:** 1 1/4"
- **Dimensions:**
  - A: 32
  - B: 146.5
  - C: 132.5
  - D: 144
  - E: 169.5
  - Weight: 129 gr
  - **Weight:** 1412 gr

**Model:** EGV 1040
- **Connection:** 1 1/2"
- **Dimensions:**
  - A: 40
  - B: 146.5
  - C: 132.5
  - D: 144
  - E: 169.5
  - Weight: 129 gr
  - **Weight:** 1338 gr

**Model:** EGV 1050
- **Connection:** 2"
- **Dimensions:**
  - A: 0
  - B: 146.5
  - C: 132.5
  - D: 144
  - E: 169.5
  - Weight: 129 gr
  - **Weight:** 1418 gr

#### Internal Parts

1. **Body**
2. **Upper Cover**
3. **Pulling Plastic**
4. **Coil**
5. **Socket**
GAS VALVE

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■ DIMENSIONS (mm)

■ INTERNAL PARTS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INLET CONNECTION</th>
<th>OUTLET CONNECTION</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<td>310</td>
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<td>EMV 1080</td>
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<td>155</td>
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<td>4</td>
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<td>6</td>
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<tr>
<td>7</td>
<td>SOCKET</td>
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■ PICTURES