

EGV Auto-Reset Gas Valves

The solenoid valves model EGV are gas interception automatic normally closed solenoid valves that open when the coil is powered and close when there is no tension.

These solenoid valves can be controlled by emergency stop buttons, pressure switch, thermostat, etc.

All versions (DN 32 ÷ DN 100) are equipped by an “Energy saving” circuit that after about 30-40 seconds reduces significantly the valve absorption.



Features

- EC Certified According EN 161
- Energy Saving Function
- Gas Solenoid Valves
- DN15 - DN50 Screwed Versions
- DN65 - DN100 Flanged Gas Valves
- Normally Closed 230Vac Control

Model Type	Model	Description
	EGV15	DN15 Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV20	DN20 Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV25	DN25 Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV32	DN32 Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV40	DN40 Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV50	DN50 Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV65F	DN65 Flanged Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV80F	DN80 Flanged Normally Closed Auto-Reset Valve, 230Vac Screwed
	EGV100F	DN100 Flanged Normally Closed Auto-Reset Valve, 230Vac Screwed

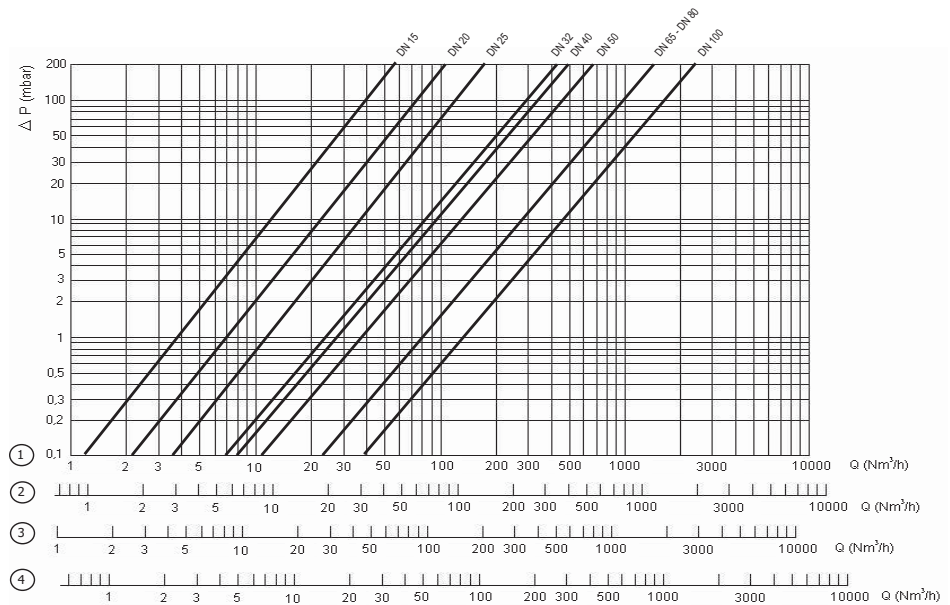
Technical Data		
Power Supply		230Vac -15%/+10% / 50..60Hz
Use		Non Aggressive Gases of 3 Families
Max. Working Pressure		360 mbar
Operating Temp		-15..+60°C
Max Superficial Temperature		85°C
Agency Approvals		Gas Directive: 90/396/EEC ATEX Directive: 94/9/EC EMC Directive: 89/336/EEC Low Voltage Directive: 73/23/EEC
Protection Class		IP65
Class / Group		A / 2
Closing Time		< 2s
Opening Time		< 2s

Materials OT-58 brass (UNI EN 12164), 430 F stainless steel (UNI EN 10088), 11S aluminium (UNI 9002-5), NBR rubber (UNI 7702).

Coil Technical Information

Model	Power Supply	Resistance (Ohms)	Power Consumption	
EGV15 to EGV20	230Vac	2070	22VA	
EGV25	230Vac	2110	18VA	
EGV32 to EGV50	230Vac	928	55VA	Energy Saving Mode 13VA
EGV65F, EGV80F	230Vac	450	105VA	Energy Saving Mode 29VA
EGV100F	230Vac	372	124VA	Energy Saving Mode 36VA

Capacity Diagram

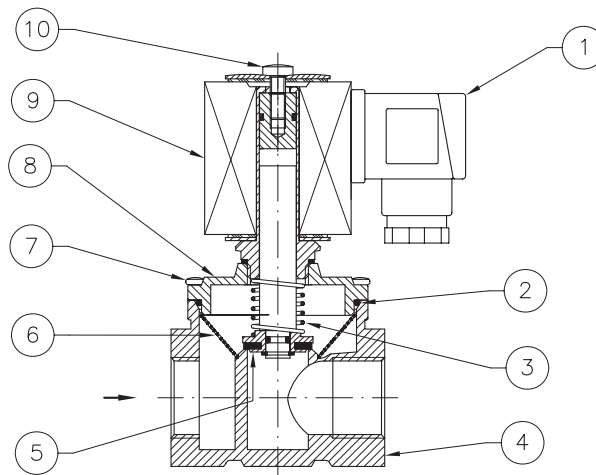


Note: Gas valves need to be sized on required volume and total line pressure drop.

DN15 to DN25 Breakdown Diagram

DN15, DN20 and DN25 Break-Down Diagram

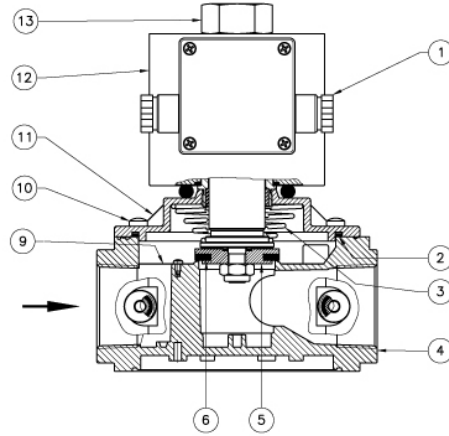
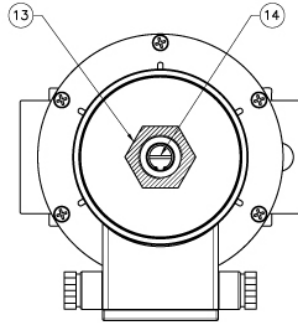
- 1 - Electrical connector
- 2 - Cover seal O-ring
- 3 - Closing spring
- 4 - Body valve
- 5 - Obturator
- 6 - Filtering organ
- 7 - Cover
- 8 - Coil sleeve
- 9 - Coil
- 10 - Coil fixing screws



DN32 to DN50 Breakdown Diagram

DN32 to DN50 Break-Down Diagram

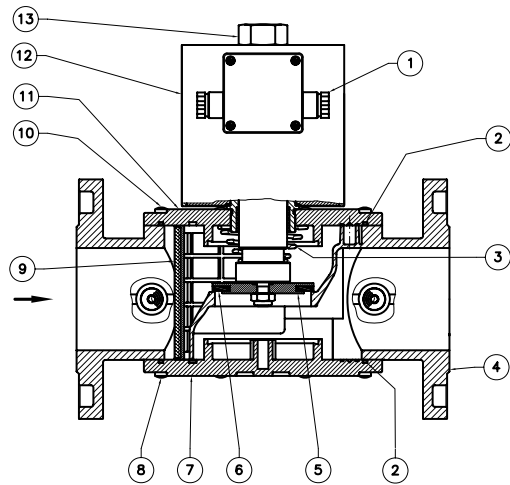
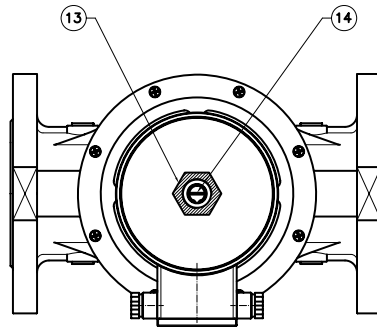
- 1 - Electrical connector
- 2 - Seal O-Ring
- 3 - Closing spring
- 4 - Body valve
- 5 - Obturator
- 6 - Seal washer
- 7 - Bottom (only on flanged connections)
- 8 - Bottom fixing screws (only on flanged connections)
- 9 - Filtering component
- 10 - Cover fixing screws
- 11 - Cover
- 12 - Electrical coil
- 13 - Cbil xing nut
- 14 - Flow calibration screw



DN65 to DN 100 Breardown Diagram

DN65 to DN100 Break-Down Diagram

- 1 - Electrical connector
- 2 - Seal O-Ring
- 3 - Closing spring
- 4 - Body valve
- 5 - Obturator
- 6 - Seal washer
- 7 - Bottom (only on flanged connections)
- 8 - Bottom fixing screws (only on flanged connections)
- 9 - Filtering component
- 10 - Cover fixing screws
- 11 - Cover
- 12 - Electrical coil
- 13 - Cbil xing nut
- 14 - Flow calibration screw



Installation

The solenoid valve is in conformity with the Directive 94/9/CE (said Directive ATEX 100 a) as device of group II, category 3G and as device of group II, category 3D; for this reason it is suitable to be installed in the zones 2 and 22 as classified in the attachment I to the Directive 99/92/EC. The solenoid valve is not suitable to be used in zones 1 and 21 and, all the more so, in zones 0 and 20 as classified in the already said Directive 99/92/EC.

To determine the qualification and the extension of the dangerous zones, see the norm EN 60079-10.

The device, if installed and serviced respecting all the conditions and the technical instructions of this document, is not source of specific dangers: in particular, during the normal working, is not forecast, by the solenoid valve, the emission in the atmosphere of inflammable substance in way to cause an explosive atmosphere.

WARNING: All installation/wiring/maintenance work must be carried out by skilled staff.

- The gas supply must be shut off before installation.
- Check that the line pressure DOES NOT EXCEED the maximum pressure stated on the product label.
- They must be installed with the arrow (on the body of the device) facing towards the user appliance. They will function equally effectively if installed vertical. They must not be installed upside down (with the coil underneath).
- During installation take care not to allow debris or scraps of metal to enter the device.
- If the device is threaded check that the pipeline thread is not too long; overlong threads may damage the body of the device when screwed into place. Do not use the coil for leverage when screwing into position; use the appropriate tool.
- If the device is flanged check that the inlet and outlet counterflanges are perfectly parallel to avoid unnecessary mechanical stresses on the body of the device. Also calculate the space needed to fit the seal. If the gap left after the seal is fitted is too wide, do not try to close it by over-tightening the device's bolts.
- Always check that the system is gas-tight after installation.
- In the version with flow regulator (EVPF/NC) unscrew the nut (13) and set the wanted value of the gas flow by the regulation screw (14). Then rescrew the nut (13) in the original position.

ELECTRICAL CONNECTIONS

- Before making electrical connections, check that the mains voltage is the same as the power supply voltage stated on the product label.
- Disconnect the power supply before wiring.
- Wire the connector with cable type: H05RN-F 3X0,75mm², Ø outside from 6.2 to 8.1 mm (DN 15 ÷ DN 25) H05RN-F 3X1 mm², Ø outside from 8.3 to 9.5 mm (DN 32 ÷ DN 100) taking care to ensure that the device has IP65 protection.
- Connect the power supply to terminals 1 and 2 and the ground wire to terminal .
- The coil is also suitable for permanent power supply. In case of continuous duty, it is absolutely normal for the coil to heat up. The coil should not be touched with bare hands after it has been continuously powered for more than 20 minutes. Before maintenance work, wait for the coil to cool or use suitable protective equipment.

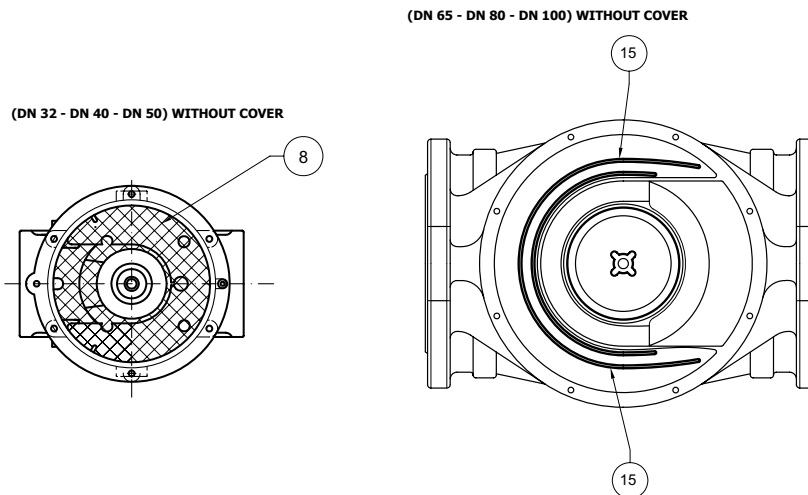
Servicing

In all cases, before performing any internal checks make sure that:

1. the power supply to the device is disconnected
 2. there is no pressurised gas inside the device
- DN 15 ÷ DN 25: (see fig. 1) unscrew the coil fixing screws (10) and remove the coil (9). Unscrew the cover fixing screws (7) and disassemble it from body valve (4). Check the obturator (5), clean or if necessary substitute the rubber made seal component. Clean the filter (6) blowing it without taking it off the body valve (4). Then assemble doing backward the same operation of dismantling.
 - DN 32 ÷ DN 100: (see fig. 2 and 3) unscrew the nut (13) and remove the coil (12). Unscrew the fixing screws (10) and, with care, take the cover (11) off the body (4) of the valve, then control the obturator (5) and if it is necessary change the rubber made seal component (6). Then clean or blow the filter (9) or change it if necessary (for the correct position see next page fig. 4 and 5); then assemble doing backward the same operation.

- TO INSERT THE NET (8) (DN 32 ÷ DN 50) (see fig. 4): Position it as in the figure taking care to respect the guides in the internal circumference of the body valve and fix it by the special screws

WARNING: The above mentioned operations must be carried out only by qualified technicians.



Dimensions

Overall dimensions in mm				Weight
Part No	Connections	A	B	Kg
EGV15	DN 15	70	122 / 136	0,9
EGV20	DN 20	70	130 / 144	1
EGV25	DN 25	90	157 / 171	2
EGV32	DN 32	160	210	5.8
EGV40	DN 40	160	210	5.8
EGV50	DN 50	160	235	5.8
EGV65F	DN 65	310	321	17
EGV80F	DN 80	310	328	18
EGV100F	DN 100	350	389	34.2

