

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.

Approved from 2009/142/EC Directive and 2006/95/ EEC Low Voltage Directive (LVD) and EN 161, EN 13611 standards

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



Patented Design

Fast Closing

%100 Quality Control



PERFORMANCE CHARACTERISTICS

Fluid Type: Non-corrosive gasses

Connection: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" Thread, 2 1/2", 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

Minumum Operating Differential Pressure: 0 Bar

Design Pressure: 2,5 bar

Response Time: Less than 1 second

Note: For coil's electrical spesification please look at ECO series technical page

MATERIAL INFORMATION

Valve Body and Cover: Die cast aluminum or zinc.

Diaphragm / Orings / Sealing Seat: H-NBR

Other Metal Internal Parts: Aluminum and Brass

OtherPlastic Internal Parts: POM – Nylon 6

Springs: Stainless Steel

Valve Seat: Aluminium

Cover Screws: Stainless Steel

Shading Ring: Copper

Plunger: Stainless Stell

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

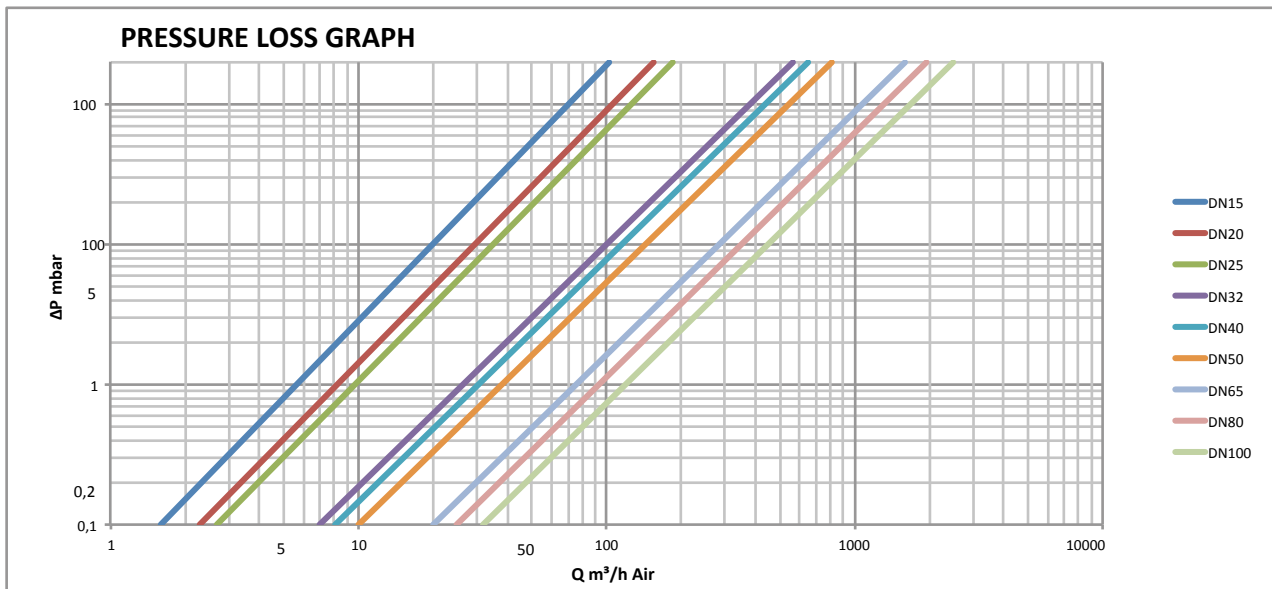
Voltage: 12VDC - 24VDC – 220VAC

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)

DIAGRAMS



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 .

$$Q1 = Q2 \times K$$

Q2 : Flow rate for methane

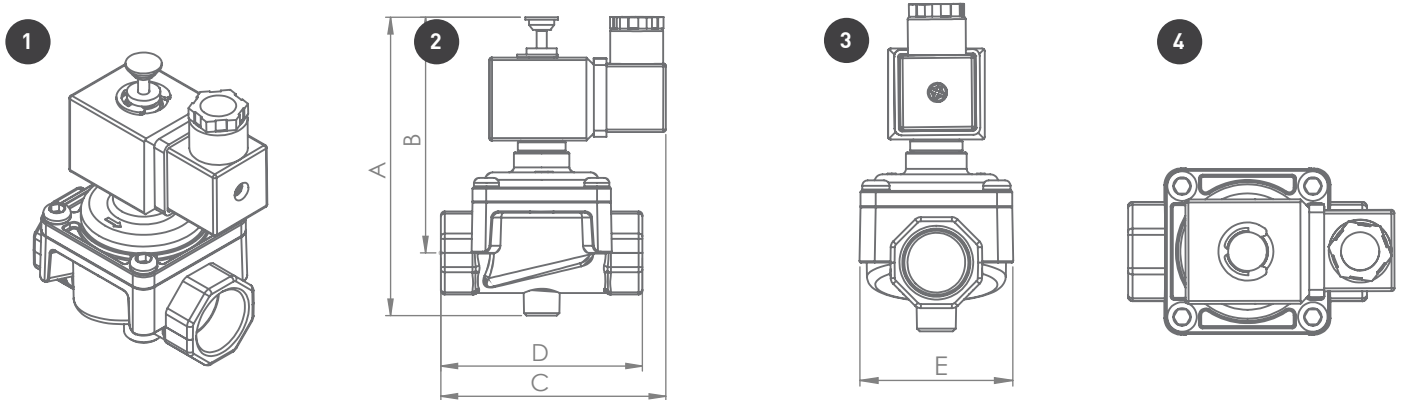
K : Flow conversation equal

Q1 : Flow rate for the gas you need

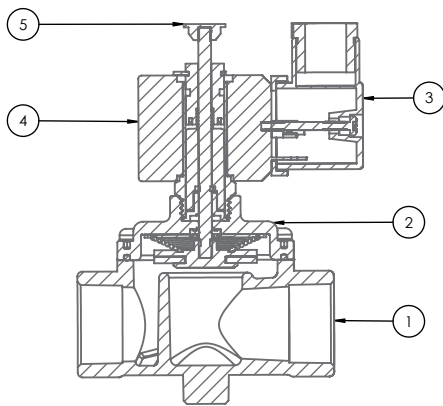
Fluid	K
Hydrogen	3,04
Town Gas	1,17
Carbon Monoxide	0,81
Nitrogen	0,80
Air	0,78
Oxygen	0,76
Lpg	0,63
Butane	0,56

Flow conversion equal

DIMENSIONS (mm)



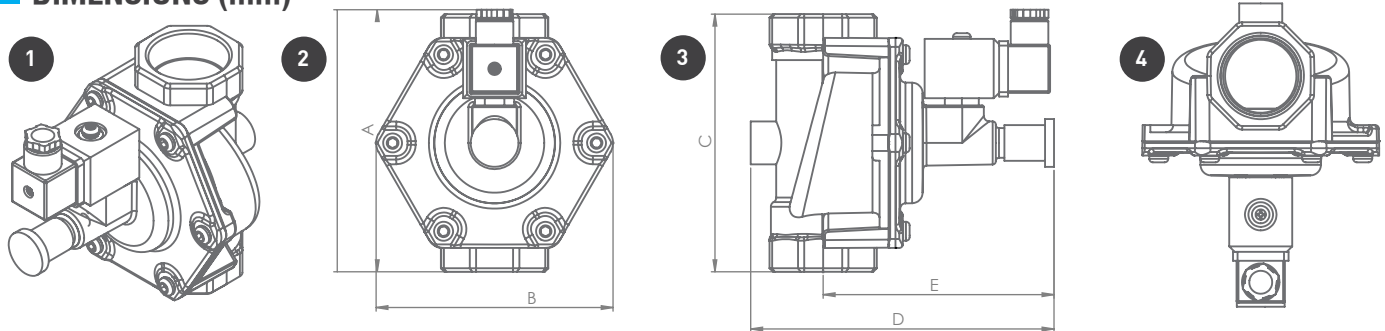
INTERNAL PARTS



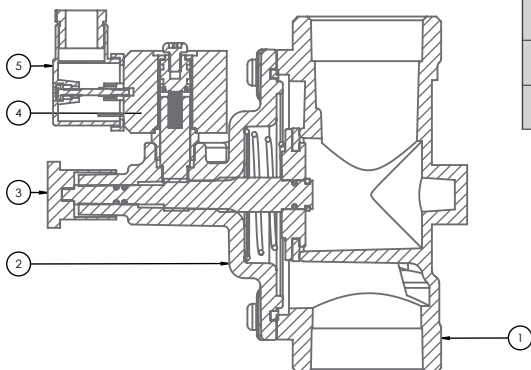
MODEL	INLET CONNECTION	OUTLET CONNECTION	A	B	C	D	E	WEIGHT (gr)
EGV 1015	1/2	15	122	97	91	85.2	55	430
EGV 1020	3/4	20	122	97	91	85.2	55	410
EGV 1025	1"	25	122	97	91	85.2	55	455

NO	MATERIAL NAME	QTY
1	BODY	1
2	UPPER COVER	1
3	SOCKET	1
4	COIL	1

DIMENSIONS (mm)



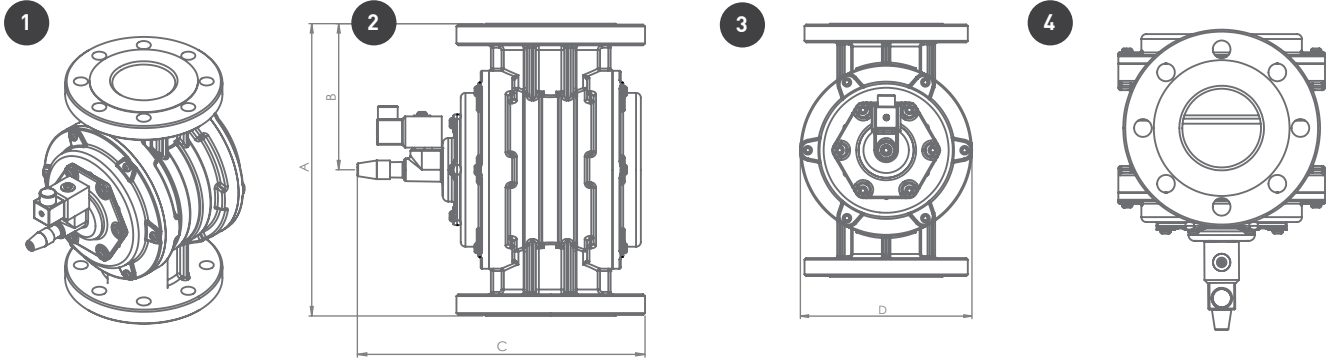
INTERNAL PARTS



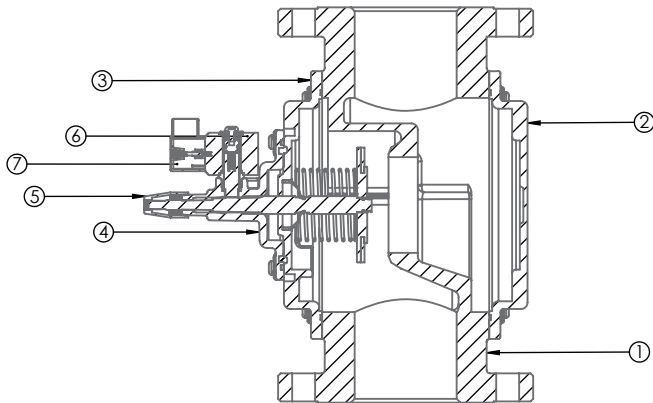
MODEL	INLET CONNECTION	OUTLET CONNECTION	A	B	C	D	E	WEIGHT (gr)
EGV 1032	1 1/4"	32	146.5	132.5	144	169.5	129	1412
EGV 1040	1 1/2"	40	146.5	132.5	144	169.5	129	1338
EGV 1050	2"	0	146.5	132.5	144	169.5	129	1418

NO	MATERIAL NAME	QTY
1	BODY	1
2	UPPER COVER	1
3	PULLING PLASTIC	1
4	COIL	1
5	SOCKET	1

DIMENSIONS (mm)



INTERNAL PARTS



MODEL	INLET CONNECTION	OUTLET CONNECTION	A	B	C	D
EMV 1065	2.5"	65	310	155	311	210
EMV 1080	3"	80	310	155	311	210
EMV 1100	4"	100	350	175	357.7	210

NO	MATERIAL NAME	QTY
1	BODY	1
2	BOTTOM COVER	1
3	UPPER COVER	1
4	UPPER COVER	1
5	PULLING PLASTIC	1
6	COIL	1
7	SOCKET	1

PICTURES

