



**EVRM-NC**  
**EVRM-NCA**  
**EVRM-NC/OT**

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**SAFETY ELECTROVALVES FOR AIR AND GAS WITH MANUAL RESET  
NORMALLY CLOSED – OPEN ONLY WHEN ENERGIZED**

**SICHERHEITSMAGNETVENTILE FÜR LUFT UND GAS MIT MANUELLER RÜCKSTELLUNG  
STROMLOS GESCHLOSSEN- UNTER SPANNUNG GEÖFFNET**

**ELETTROVALVOLE DI SICUREZZA PER ARIA E GAS A RIARMO MANUALE  
NORMALMENTE CHIUSE - APERTE SOTTO TENSIONE**

**ELECTROVANNE DE SECURITE POUR L’AIR ET LE GAZ A REARMEMENT MANUEL  
NORMALEMENT FERMEE - OUVERTE SOUS TENSION**

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## **EVRM-NC SAFETY SOLENOID VALVE**

**100% TESTED**

**TWO YEARS WARRANTY**

The EVRM-NC type valve is a manual reset safety valve that is normally closed. When not in working position the spring works on the shutter keeping the gas passage closed. Simply by energizing the coil the valve does not open. It is necessary to manually move the reset rod located at the top of the coil. Once opened, the valve can maintain this position until electric current circulates on the coil. In absence of electric current the valve closes rapidly and remains shut upon return of same. Once the causes for the lock have been eliminated, opening must be worked manually as described above. This type of device, connected with one or more pressure switches is suitable for locking operations upon gas, air, or electric current failure, and is qualified for continuous service (permanently live).

### **INSTALLATION AND ADJUSTMENT**

Check correspondence of flow direction with arrow printed on valve body, check correct alignment of connecting pipes and allow enough space from the walls to allow free air circulation. Valve may be mounted with coil in horizontal or vertical position. Coil may be oriented 360 degrees in any direction. Install in an area that is protected from rain and water splashes or drops.

For electrical connection remove cap on the DIN plug and connect power cables to rectifier circuit clamps.

### **CLEANING AND MAINTENANCE**

Dust and any foreign bodies may be easily removed from the filter or the gas passage zone. After shutting off upstream gas and electric current, the coil is removed by unscrewing the reset knob and the knurled fastening cap. Unscrew the 4 screws fixing the counter flange to valve body. During this operation care should be taken not to cause damage to the seat housing.

### **TECHNICAL CHARACTERISTICS**

f/f Connections	: gas threaded from 3/8" to 2" flanged : flanged PN16 – UNI 2223 from DN65 to DN100
Voltage rating	: 230V-110V AC, 24V-12V AC/DC
Voltage tolerance	: -15% ÷ + 10%
Working temperature	: -15°C ÷ + 60°C
Working pressure	: 750 mbar (500 mbar brass model)
Closing time	: < 1 second
Protection class	: IP 54
Cable gland	: DIN plug PG 9 - Box PG11
Pressure inlets	: 1/4" on two sides (except brass model)

This control must be installed in compliance with the laws in force.  
Elektrogas reserves the right to update or make technical changes without prior notice.



**VALVES IDENTIFICATION - VENTILE IDENTIFIKATION**  
**IDENTIFICAZIONE VALVOLE - IDENTIFICATION DES ELECTROVANNE**

		<b>230V AC</b>	<b>110V AC</b>	<b>24V AC/DC</b>	<b>12V AC/DC</b>
1/2"-OT	DN15	EVRMNC1AO	-	EVRMNC1CO	EVRMNC1DO
3/4"-OT	DN20	EVRMNC2AO	-	EVRMNC2CO	EVRMNC2DO
1"-OT	DN25	EVRMNC3AO	-	EVRMNC3CO	EVRMNC3DO
3/8"	DN10	EVRMNCA0A	EVRMNCA0B	EVRMNCA0C	EVRMNCA0D
1/2"	DN15	EVRMNCA1A	EVRMNCA1B	EVRMNCA1C	EVRMNCA1D
3/4"	DN20	EVRMNCA2A	EVRMNCA2B	EVRMNCA2C	EVRMNCA2D
1"	DN25	EVRMNCA3A	EVRMNCA3B	EVRMNCA3C	EVRMNCA3D
1 1/4"	DN32	EVRMNCA35A	EVRMNCA35B	EVRMNCA35C	EVRMNCA35D
1 1/2"	DN40	EVRMNCA4A	EVRMNCA4B	EVRMNCA4C	EVRMNCA4D
2"	DN50	EVRMNCA6A	EVRMNCA6B	EVRMNCA6C	EVRMNCA6D
2 1/2"	DN65	EVRMNCA7A	EVRMNCA7B	EVRMNCA7C	EVRMNCA7D
3"	DN80	EVRMNCA8A	EVRMNCA8B	EVRMNCA8C	EVRMNCA8D
4"	DN100	EVRMNC9A	EVRMNC9B	EVRMNC9C	EVRMNC9D

**POWER ABSORPTION - LEISTUNGS-AUFNAHME**  
**POTENZA ASSORBITA - PUISSANCE ABSORBÉE**

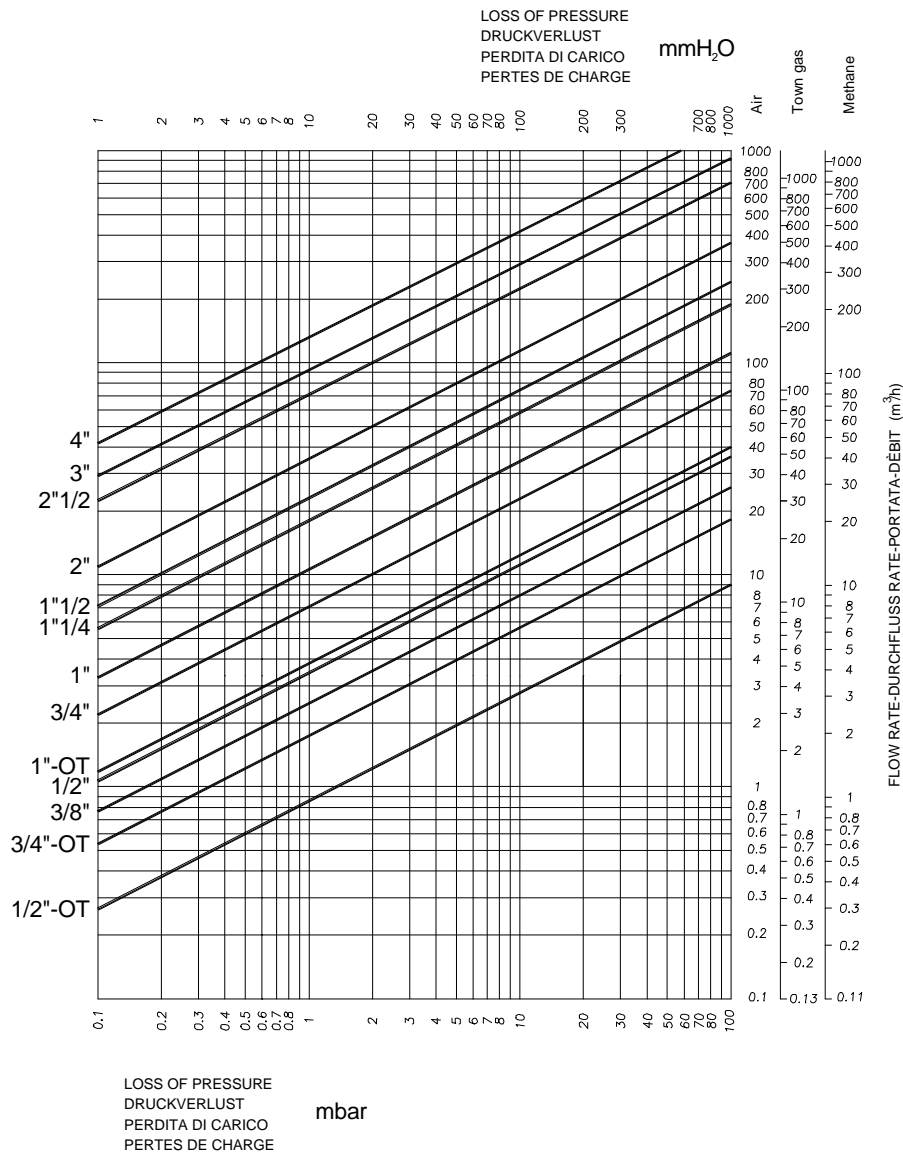
**Watt**

		<b>230V AC</b>	<b>110V AC</b>	<b>24V AC/DC</b>	<b>12V AC/DC</b>
1/2"-OT	DN15	8	-	22	22
3/4"-OT	DN20	8	-	22	22
1"-OT	DN25	8	-	22	22
3/8"	DN10	12	12	12	12
1/2"	DN15	12	12	12	12
3/4"	DN20	12	12	12	12
1"	DN25	12	12	12	12
1 1/4"	DN32	12	12	12	12
1 1/2"	DN40	12	12	12	12
2"	DN50	12	12	12	12
2 1/2"	DN65	25	25	25	25
3"	DN80	25	25	25	25
4"	DN100	45	45	45	45



DIAGRAM LOSS OF PRESSURE  
DIAGRAMMA PERDITE DI CARICO

DRUCKVERLUST-DIAGRAMM  
DIAGRAMME PERTES DE CHARGE



GAS SORT GAS TYP TIPO GAS TYPE DE GAZ	SPECIFIC WEIGHT (Kg/m <sup>3</sup> ) SPEZIFISCHES GEWICHT (Kg/m <sup>3</sup> ) PESO SPECIFICO (Kg/m <sup>3</sup> ) POIDS SPECIFIQUE (Kg/m <sup>3</sup> )
NATURAL GAS ERD GAS GAS NATURELE GAZ NATUREL	0.80
TOWN GAS STADT GAS GAS DI CITTA' GAZ DE VILLE	0.57
LIQUID GAS FLUESSING GAS GAS LIQUIDO GAZ LIQUIDE	2.08
AIR LUFT ARIA AIR	1.25

FORMULA OF CONVERSION FROM AIR TO OTHER GASES  
UMRECHNUNGSFORMEL VON LUFT AUF ANDERE GASE  
FORMULA DI CONVERSIONE DA ARIA AD ALTRI GAS  
FORMULE DE CONVERSION DE L'AIR Á UN AUTRE GAZ

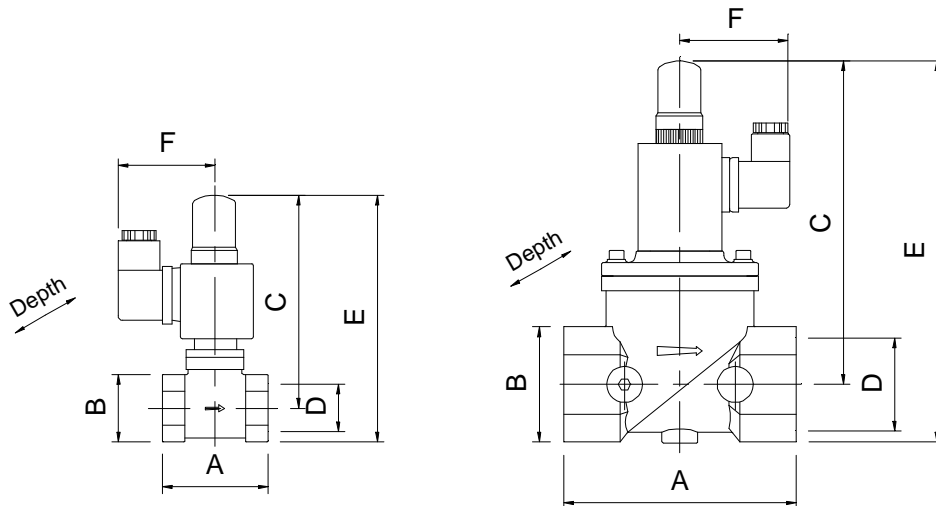
$$V_{\text{AIR}} = \frac{V}{K}$$

GAS TO BE USED/GAS ZU VERWENDEN  
GAS DA UTILIZZARE/GAZ Á UTILISER

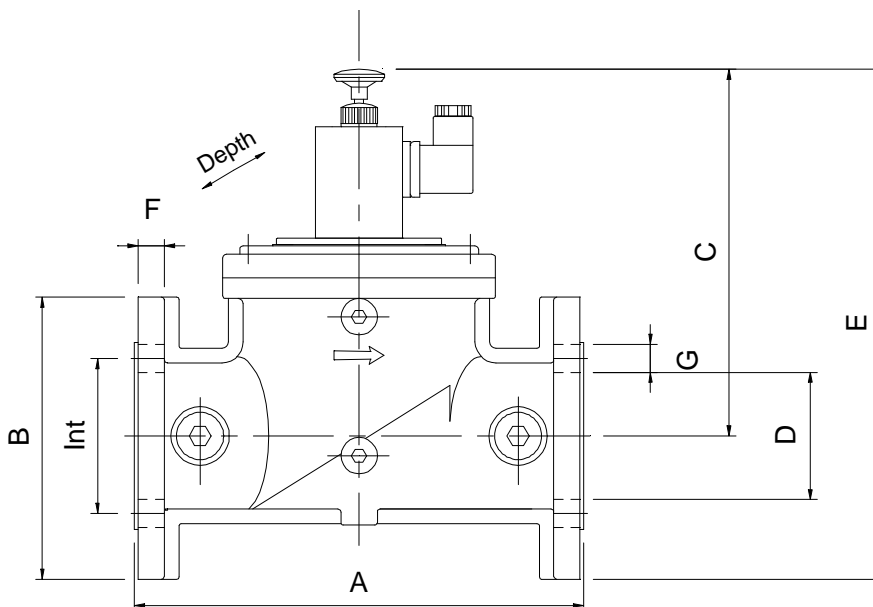
$$K = \frac{V}{V_{\text{AIR}}}$$

AIR SPECIFIC WEIGHT/SPEZIFISCHES GEWICHT LUFT  
PESO SPECIFICO ARIA/POIDS SPECIFIQUE AIR

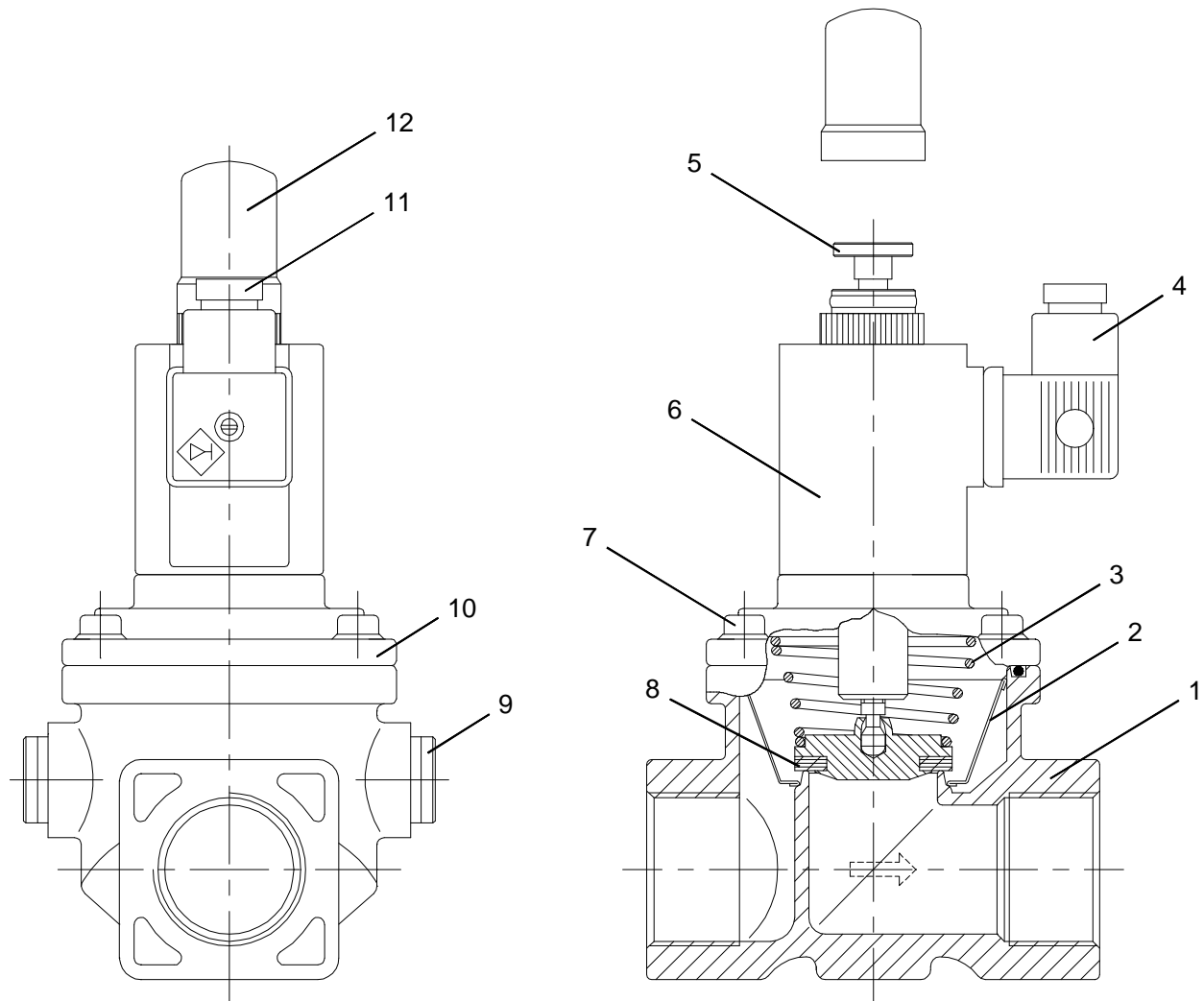
GAS SPECIFIC WEIGHT  
SPEZIFISCHES GEWICHT VON BENNETZTEN GAS  
PESO SPECIFICO GAS DA UTILIZZARE  
POIDS SPECIFIQUE GAZ Á UTILISER



	A	B	C	D	E	F	Depth
<b>EVRM-NC1/OT</b>	47	30	105	G1/2"	120	50	30
<b>EVRM-NC2/OT</b>	55	35	105	G3/4"	120	50	35
<b>EVRM-NC3/OT</b>	63	45	105	G1"	120	50	40
<b>EVRM-NC0</b>	77	32	148	G3/8"	164	60	70
<b>EVRM-NC1</b>	77	32	148	G1/2"	164	60	70
<b>EVRM-NC2</b>	96	46	158	G3/4"	180	60	85
<b>EVRM-NC3</b>	96	46	158	G1"	180	60	85
<b>EVRM-NC35</b>	153	65	188	G1"1/4	220	60	120
<b>EVRM-NC4</b>	153	65	188	G1"1/2	220	60	120
<b>EVRM-NC6</b>	156	77	192	G2"	230	60	106



	A	B	C	D	E	F	G	Int	Depth	Holes
<b>EVRM-NC7</b>	308	190	234	φ65	322	18	φ19	145	200	4
<b>EVRM-NC8</b>	308	190	234	φ80	322	18	φ19	160	200	8
<b>EVRM-NC9</b>	350	220	270	φ100	405	18	φ19	180	252	8



1	Valve body	7	Fixing screw
2	Filter	8	Seal
3	Spring	9	Plug 1/4"G
4	DIN plug	10	Counter-flange
5	Reset rod	11	Cable gland
6	Coil	12	Hood