

Residential, commercial and industrial gas meters

Type		UG G1.6	UG G2.5	UG G4	UG G4	2UG G6	UG G10	UG G16	UG G25	UG G40	UG G65
Maximum flow rate	m³/h	2.5	4	6	6	10	16	25	40	65	100
Minimum flow rate	m³/h	0.016	0.016 / 0.025	0.016 / 0.025 / 0.04	0.04	0.06	0.1	0.16	0.25	0.4	0.65
Nominal flow rate	m³/h	1.6	2.5	4	4	6	10	16	25	40	65
Cyclic volume	dm³	1.2	1.2	1.2	2.2	2.2	5.6	5.6	11.2	16.8	22.4
Max working pressure	bar	0.5 / 2*	0.5 / 2*	0.5 / 2*	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Index max indication	m³/h	99999.999					999999.99				
Starting flow rate	dm³/h	3	5	5	5	8	13	13	20	32	32
Fireproof up to 650 °C according to EN 1359	bar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Thread		Threaded connections may be manufactured acc. to any international norm (ISO; ANSI; British Standard etc.....)									

*1 Aluminium case

Robust index

with proven protection against fraud



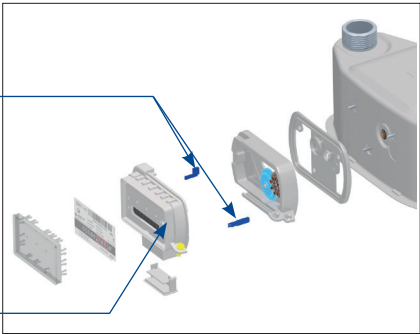
NEW GENERATION SEAL
Stamp on index window from inside



PLACE FOR TRADITIONAL SEAL (OPTIONAL)

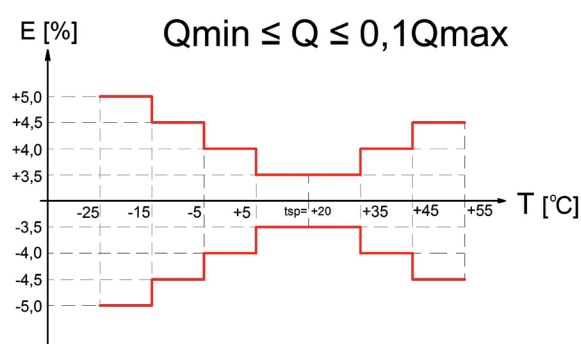
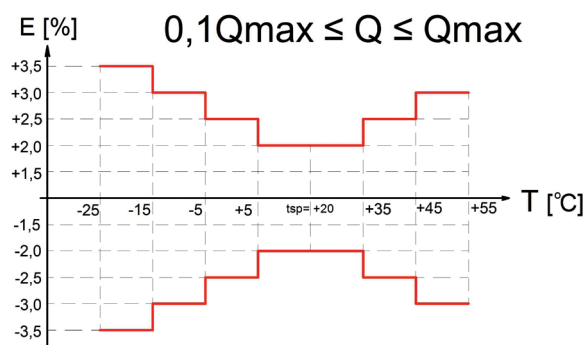
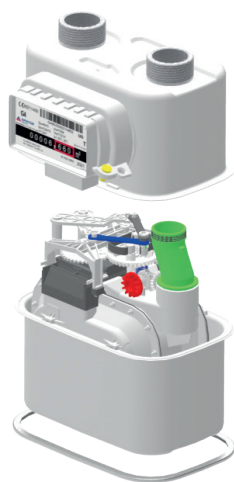
INDEX BLOCKAGES
Optional anti-tamper blockage parts prevent opening index

BLOCKAGE OF REVERSE FLOW COUNTING



MECHANICAL TEMPERATURE COMPENSATION

Gas meters UG G1.6 up to UG G4 can be equipped with mechanical temperature compensation (bimetal).



Gas is a substance subject to thermal expansion, which means that depending on temperature, it increases or decreases its volume. Consequently, what changes is the measuring accuracy of a gas meter with relation to its energy content. In other words when gas with some energy content, volume and temperature is already in pipes and is heated, then the index unit is to show a bigger consumption after flow, whereas when gas is cooled, the gas meter will indicate a lower consumption.

It is a very important issue as a temperature change of 3°C corresponds to a volume change of approximately 1%. Such considerable temperature changes are likely to occur especially to meters placed on the outside of a building. Consequently the meter works at various temperatures depending on the season. A gas meter with temperature compensation provides a solution to this problem as it uses and undergoes thermal expansion as well.

A temperature compensation mechanism installed in the measuring unit is adjusted in such a way so that it changes the cyclic volume of the measuring unit exactly like gas undergoing expansion due to temperature changes. Elements responsible for compensation installed in the meter allow a radial shift of the diaphragm, which results in moving the curve of typical error up or down in relation to the zero line.

Thus the gas meter converts the measured value of gas volume into its value at fiducial temperature – irrespective of measuring temperature.

UG SERIES V=1.2 dm³

UG 1.2 dm³ series gas meters are designed for measurement of gas supplied to apartments where consumption of gas does not exceed 6 m³/h of air density of 1.2 kg/m³.

THE GAS METERS CAN BE USED FOR MEASUREMENT OF:

- Natural gas
- City gas
- Propane-butane gas

Gas meter is equipped with pulse magnet as standard.

Pulse transmitter can be added at any time (1 imp = 0.01 m³).



TECHNICAL DATA

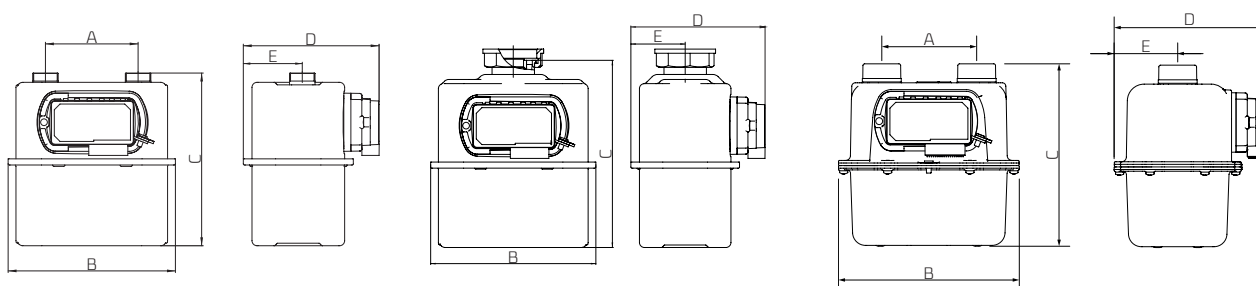
		UG G1.6	UG G2.5	UG G4
Maximum flow rate	m ³ /h	2.5	4	6
Minimum flow rate	m ³ /h	0.016	0.016 / 0.025	0.016 / 0.025 / 0.040
Nominal flow rate	m ³ /h	1.6	2.5	4
Cyclic volume	dm ³	1.2	1.2	1.2
Max working pressure	bar	0.5 / 2*	0.5 / 2*	0.5 / 2*
Index max indication	m ³ /h	99999.999	99999.999	99999.999
Starting flow rate	dm ³ /h	3	5	5
Fireproof up to 650 °C according to EN 1359	bar	0.1	0.1	0.1

*) Aluminium case

ADDITIONAL INFORMATION ON GAS METERS WITH MECHANICAL TEMPERATURE COMPENSATION

	UG T
Cyclic volume	1.15 (1.2) dm ³
Allowable indication errors limits during initial verification:	
- Q _{min} to 0.1 Q _{max}	± 3.5%
- 0.1 Q _{max} to Q _{max}	± 2.0%
Temperature range	-25 ÷ 55°C
UG T - TC correction range:	
- standard	-10 ÷ 40°C
- optional	-25 ÷ 40°C

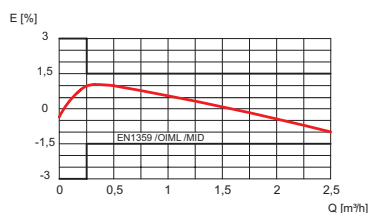
DIMENSIONS



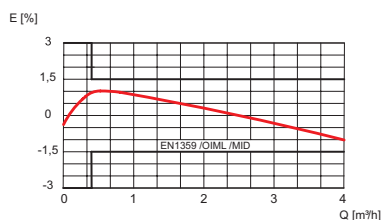
A [mm]	B [mm]		C [mm]		D [mm]		E [mm]		Weight [kg]
	Steel	Alu	Steel	Alu	Steel	Alu	Steel	Alu	
000	200	—	226	—	163	—	66	—	~1.7
100	200	210	212 to 224	210	163	175	66	74	~1.7
110	200	210	208 to 228	210	163	175	66 or 70	74	~1.7
130	200	—	212 to 228	—	163	—	66	—	~1.7
152.4	235	—	262	—	177	—	72	—	~3
160	235	—	241	—	177	—	77	—	~3
220	283	—	223	—	177	—	72	—	~2.9
250	326	—	223	—	177	—	72	—	~3.2

CURVES OF TYPICAL ERROR AND PRESSURE LOSS

UG G1.6



UG G2.5



UG G4

