

Diaphragm Meters G65 and G100

- ▶ Long lifetime
- ▶ No maintenance
- ▶ High accuracy
- ▶ Wide measuring range
- ▶ Low pressure loss



▶ Single nozzle welded type



▶ Double nozzle welded type



▶ Double nozzle drawn type

The diaphragm meters G65 and G100 are designed for industrial applications. The design is based on high measuring accuracy and a long lifetime and are maintenance free.

This performance is made possible through the principle of two measuring chambers, which are driven by the pressure of the gas. The measured volume is displayed on a numeric totalizer.

Features

Coupling/Index box	Stuffingbox with Sardine Index box or Magnet Coupling with RF1 Index box
Connections	Double- and single-nozzle connections, DN80 for G65 and DN100 for G100 All according to DIN2642 or DIN2576 (G100 single-nozzle)
Anti-fraud register	
Housings	Welded housings (G65 & G100) or Drawn (G65)
Fire-safe	
Maximum working pressure	500 mbar
Temperature range	from -5 °C to +35 °C
Colour	RAL 7032 or RAL 7035

Technical design

Indicator

A direct or indirect driven register, depending on the type of coupling between the measuring unit and the index box, indicates the passed volume of gas. Both index box-constructions are designed in such a way that it's almost impossible to access the registers without damaging them.



▶ Sardine-Indexbox



▶ RF1-Indexbox



Technical design (cont'd)

Measuring unit

The measuring unit consists of two chambers with synthetic diaphragms, which guarantee long-term stability.

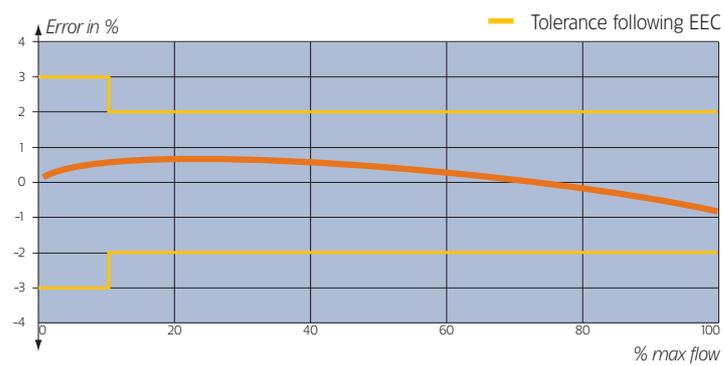
The unit is built in a robust steel coated casing, either drawn or welded.

Accuracy

In accordance with the EC and OIML standards.

In line with EC standards, the tolerance of acceptance is $\pm 3\%$ from Q_{min} to $0,2 Q_{max}$ and $\pm 2\%$ from $0,2 Q_{max}$ to Q_{max} .

Typical regulation curve



Every meter undergoes a 100% inspection for function, accuracy and safety. All meters are EN1359 compliant and have DVGW approval.

LF pulse-emitter

Meter versions with the sardine Index-box are standard equipped with a LF pulse-emitter.

1 pulse is 0.1m^3 (G65) or 1m^3 (G100).

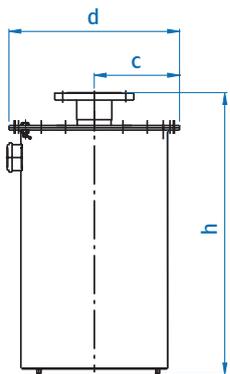
The 4 pins male-connector is fixed in a "D"-hole in the index box. The female contra-connector is supplied with each meter.



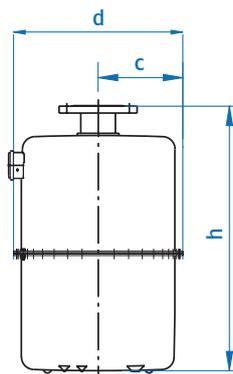
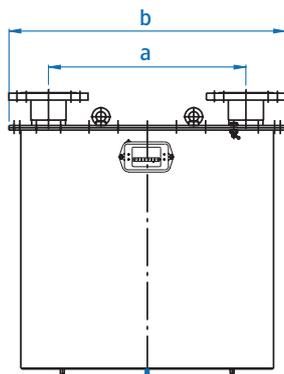
Dimensions and Technical Data

Type	Nozzle type	Q min (m³/h)	Q max (m³/h)	Vol. (dm³)	Pmax (bar)	a (mm)	b (mm)	c (mm)	d (mm)	h (mm)	Weight (kg)
G65	Welded	0.65	100	55	0.5	500	700	216	436	721	65
G65	Welded	0.65	100	55	0.5	640	840	216	436	805	69
G65	Drawn	0.65	100	55	0.5	500	700	217	445	687	48
G65	Drawn	0.65	100	55	0.5	640	840	216	445	790	52
G65	Welded - EP	0.65	100	55	0.5	N/A	700	216	436	737	71
G100	Welded	1	160	123	0.5	675	894	257	532	885	105
G100	Welded	1	160	123	0.5	710	894	257	532	885	105
G100	Welded- EP	1	160	123	0.5	N/A	894	257	532	920	113

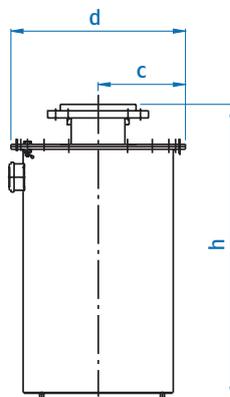
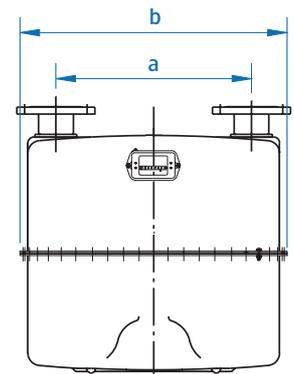
EP = Single nozzle.



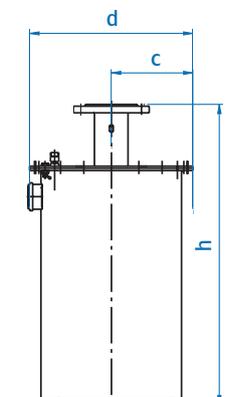
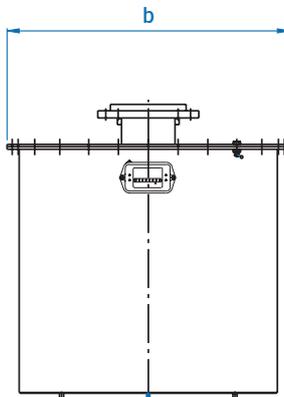
► Double Nozzle Welded (500)



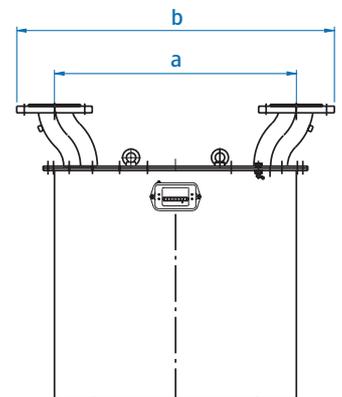
► Double Nozzle Drawn (500)



► Single Nozzle Welded



► Double Nozzle Welded





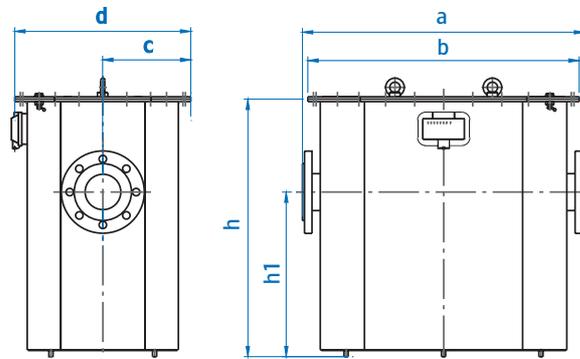
► G65 horizontal version

G65 horizontal version

This version, which has also the same G65 internal as the other G65 meters, is standard equipped with magnet coupling and RF1-Index box.

Dimensions are shown below.

Type	Nozzle type	Q min (m ³ /h)	Qmax (m ³ /h)	Vol. (dm ³)	Pmax (bar)	a (mm)	b (mm)	c (mm)	d (mm)	h1 (mm)	h (mm)	Weight (kg)
G65	Welded	0.65	100	55	0.5	680	654	212	432	400	626	69



Information to be specified when ordering

- Nature of gas
- Size of meter (G 65 or G 100)
- Coupling index box type
- Version (horizontal or vertical)
- Connections type
- Accessories and options

Options

On request the following options are possible

- Thermowell
- Other flange dimensions
- Backrun stop to prevent reverse-flow
- LF pulse-emitter with Binder connector (normal or anti-fraude) on the sardine index box versions
- Retrofit pulse-emitter on the RF1 Index box versions
- Contra flanges for both two and one-pipe versions
- Long-distance transport packaging
- Other RAL colours.

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