# BK-G40 /65 / 100

## Industrial diaphragm gas meters



#### **Applications**

Media: Natural gas, city gas, propane, butane, inert gases

Branches: Gas industry

Tasks: Measuring of the actual volume

#### **Brief information**

The metering gear of the BK-G40, BK-G65 and BK-G100 industrial diaphragm meters consists of up to 8 measuring units (depending on the size of the meter) operating in parallel. Each of the measuring units contains 4 measuring chambers, separated from each other by synthetic diaphragms. The chambers are periodically filled and emptied. A gear transmits the movement of the diaphragm to the corresponding crankshaft. The shaft then drives the valves which control the gas flow. The revolutions of the gear are transmitted via a magnetic coupling to the index.

Elster-Instromet's industrial diaphragm meters are compact, easy to handle and have a perfect weight ratio. They meet the highest standards in terms of metering accuracy and safety. The BK series of industrial diaphragm meters combines innovative new developments with decades of Elster-Instromet experience. The meters come with a deep-drawn, screwed, or welded, steel housing and can be supplied either with coaxial or twin-pipe connections.

The measuring units in the industrial diaphragm meters operate in line with the principle of pneumatic control, meaning less force is exerted on the bearings, which results in low-noise operation.

The well-proven and patented K-System for adjusting and synchronising the measuring units together with the use of high-grade materials guarantees a high degree of quality and metering accuracy.

The use of small valves ensures that the industrial diaphragm meters are  $Q_{\text{min}}$  stable and are not susceptible to dirt or any other contamination.

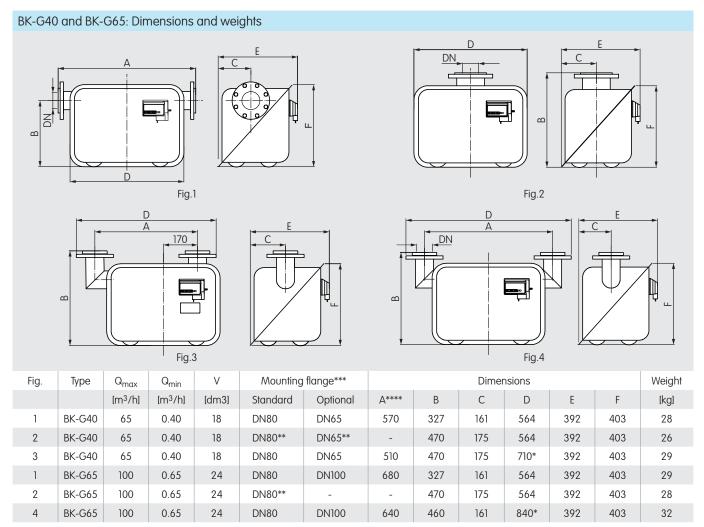
The new generation of industrial diaphragm meters are extremely robust but should, nevertheless, be handled with the same care that every metering device deserves.

#### Main features

- MID conformity approved by PTB
- EC-approved by German PTB for flow rates from 0.40 m<sup>3</sup>/h to 160 m<sup>3</sup>/h
- Approved to EN 1359 by German DVGW
- Cyclic volume: BK-G40: 18 litres BK-G65: 24 litres BK-G100:48 litres
- Maximum operating pressure 0.5 bar (0.1 bar for fireproof applications to EN 1359)
- High accuracy and long term reliability
- Powder coated pale grey to RAL 7035
- Pulse magnet as standard;
  a LF-pulser can be added at any time
  (I = 0.1 m<sup>3</sup>/pulse)
- · Low noise level
- Not suspectable to contamination (RPF=0.8)
- Gas temperature: -10 °C to +40 °C other temperatures on request
- Compact and handy design
- Option: Reverse flow valve

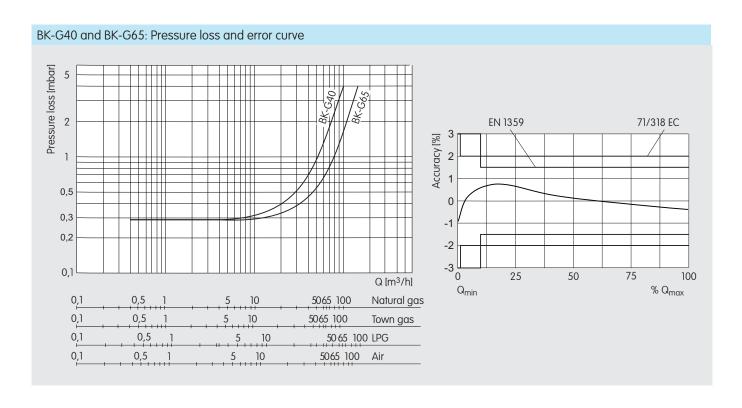


### BK-G40, BK-G65 and BK-G100: Industrial diaphragm gas meters



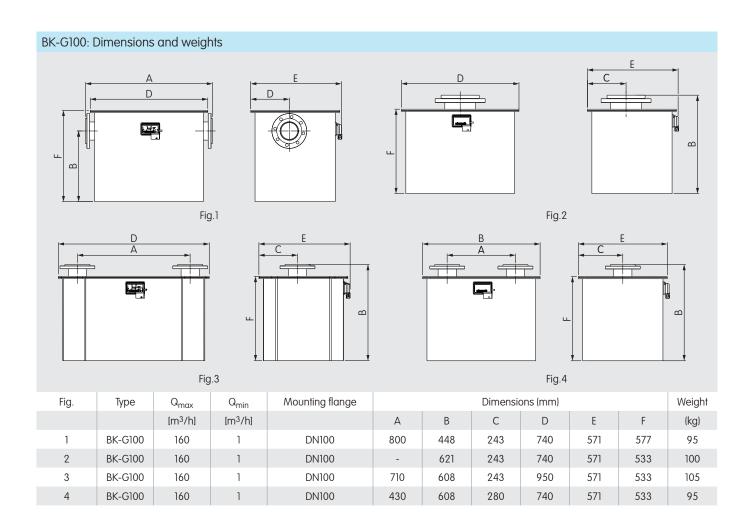
<sup>\*</sup> for DN80

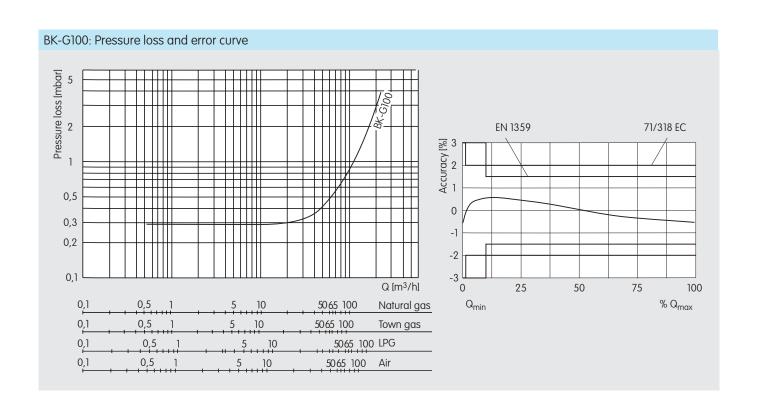
<sup>\*\*\*\*</sup> other dimensions on request



<sup>\*\*</sup> according to DIN 3376

<sup>\*\*\*</sup> flanges according to DIN 2642, PN10





#### **Versions**



BK-G40 / BK-G65



## Industrial gas meter with Absolut-ENCODER technology (option)



Transferred data:

- Meter reading
- Meter type
- Serial number
- Media

Manufacturing date



Schematic representation of transferring the original meter reading via SCR interface to a data logger DL210 The Absolut ENCODER index is available with the M-BUS and SCR interface variants.

#### Your contacts

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