

Small, compact diaphragm gas meter for residential installations



Applications

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

Industry: Gas distribution

Tasks: Measurement of gas volume at operating conditions

Brief Information

The internal, separate measuring unit contains four measuring chambers which are separated by synthetic diaphragms. The chambers are filled and emptied periodically, and the movement of the diaphragms is transferred via a gear to the crankshaft. This shaft moves the valves, which control the gas flow. The revolutions of the crankshaft are transferred via a drive gear to the index.

BK-G1.6 is the youngest member of the BK family of meters, which now ranges from BK-G1.6 to BK-G25. It is a small, compact residential diaphragm gas meter which has been designed to meet the highest demand with regard to accuracy of measurement and safety. BK-G1.6 incorporates both innovative features and Elster AMCO's gas

measurement know-how of many decades. BK-G1.6 is supplied in a unique aluminum case with a back cover made of pressed steel (patent pending). The measuring unit of BK-G1.6 works to the proven and state-of-the-art principle of pneumatically stopped diaphragms. This ensures low bearing loads and quiet operation.

The proven and patented K-system and the use of high-grade materials ensure a high quality standard and a long service life.

Due to the small slides, BK-G1.6 is stable in registration at Qmin and the meter is not susceptible to contamination or change of friction. To improve the meter's individual accuracy, valve timing is adjustable by a patented needle-and-scale system.

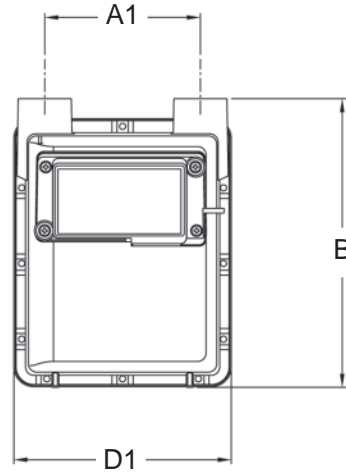
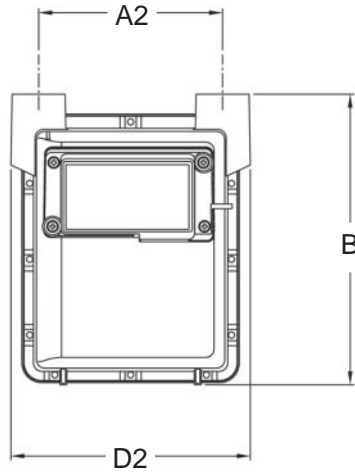
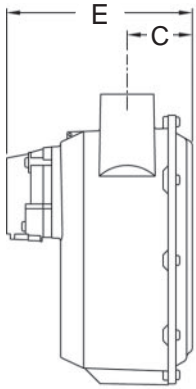
Although the design of BK-G1.6 is very robust, the gas meter is still a measuring instrument and should be handled with care.

Standard Features

- High accuracy and long-term stability
- Meets the requirements of OIML R6 and R31
- NOM 014 and EC-approved
- Flowrates from 0.016 to 3 m³/h
- Maximum operating pressure 0.1 BAR
- Water-tight index
- Pulse magnet for 0.01 m³/pulse
- Low noise level
- Low susceptibility to contamination
- Working temperature: -20°C to +50°C
- Stable synthetic diaphragm
- Anti-reverse operation
- Enlarged index numerals (4+3 digits)

Optional Features

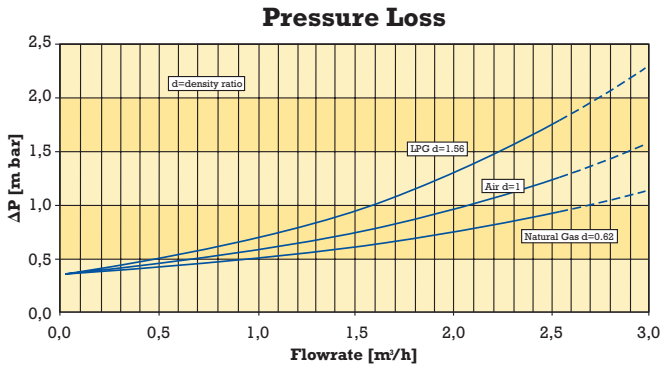
- Anti-reverse flow valve
- Right hand inlet
- Bottom-in, top-out connections (future)
- Retro-fittable low frequency (LF) pulser



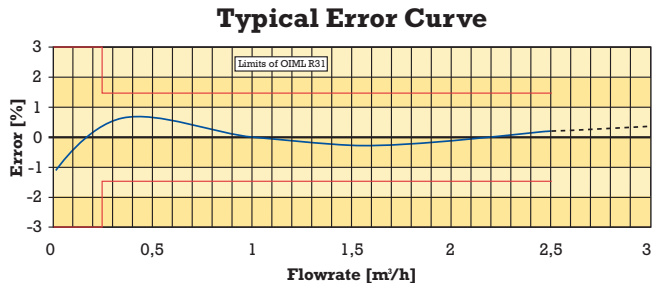
Dimensions

- A (1) 110mm/(2) 130mm
- B 205mm
- C 46mm
- D (1) 155mm/(2) 169mm
- E 133mm

Pressure loss curve



Typical error curve



Technical specifications

- Meter concept proven and approved BK technology
- Metrological performance OIML R31/ EEC 71/318/ NOM014-SCFI
- Working temperature -20°C to +50°C
- Max. operating pressure 0.1 BAR

Order information

- Connection Type**
 - Top-in, top-out
 - 110mm center-to-center
 - 130mm center-to-center
 - Bottom-in, top-out
- Connection Size**
 - 10 light (ANSI)
 - M26-1.5 (ISO 724)
 - G 7/8"
 - Other connections available on request*
- Direction of Flow**
 - Right-to-left
 - Left-to-right