

QK 3000 BK G series

Domestic diaphragm gas meter



Applications

Media: Natural gas, town gas, propane, butane, air

Industry: Gas supply

Tasks: Gas measurement at operating conditions

Brief information

The domestic QK3000 BK G series diaphragm gas meters meet the highest demands with respect to accuracy of measurement and safety. It incorporates both innovative features and gas measurement know-how of many decades. The domestic QK3000 BK G series are supplied in folded form as co-axial and two-pipe versions.

The stroke of the diaphragms is pneumatically stopped and therefore ensures both low bearing loads and a quiet operation.

The synthetic diaphragm is dimensionally stable and stadium shaped.

High-grade materials and components as well as the patented curve K-System ensure a high quality standard.

The K-System perfectly coordinates the movement of the valves with the actual gas flow to the measuring chambers. This ensures excellent linearity even with utilizing small valves.

Due to the optimized slides, Q_{min} of domestic QK3000 BK G series is stable and the gas meter is not susceptible to contamination. The measuring unit is adjusted by a patented needle-and-scale system.

Although the design of the domestic QK3000 BK G series is very robust, the gas meters are still measuring instruments and as such should be handled with care.

Operating principle: Four measuring chambers 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 rotations of the gear are transferred via a magnetic coupling to the index.

DMC 多美時燃氣設備有限公司
DMC GAS EQUIPMENT LIMITED

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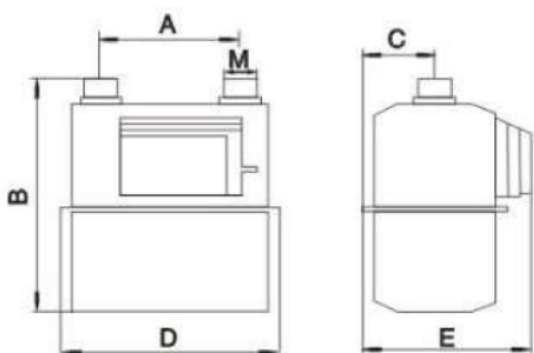
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Main features

- Conform with GB/T6968-2011
- Conform with OIML R31
- Conform with EN1359
- Flow rates
G1.6: 0.016 m³/h to 2.5m³/h
G2.5: 0.025 m³/h to 4m³/h
G4: 0.040 m³/h to 6m³/h
- Cyclic Volume is 1.2 litre
- Total pressure loss ≤200Pa
- Working pressure 0.5~50kPa
- High accuracy and long-term stability
- Powder coated pale grey to RAL 7035
- Not susceptible to contamination (RPF = 0.8)
- Temperature range:
Gas temperature: -20°C to +50°C
- Lifecycle is 12 years

Dimensions, flow rates, weights



Type	Qmax[m ³ /h]	Qmin[m ³ /h]	V[dm ³]	Connection		Dimension (mm)					Weight(kg)
				DN	Thread	A	B	C	D	E	
G1.6	2.5	0.016	1.2	20	NPT $\frac{3}{4}$ / M30X2	110/130	221	67	193/205	157	1.8/1.9
G2.5	4	0.025	1.2	20	NPT $\frac{3}{4}$ / M30x2	110/130	221	67	193/205	157	1.8/1.9
G4	6	0.040	1.2	20	NPT $\frac{3}{4}$ / M30x2	130	221	67	205	157	1.9

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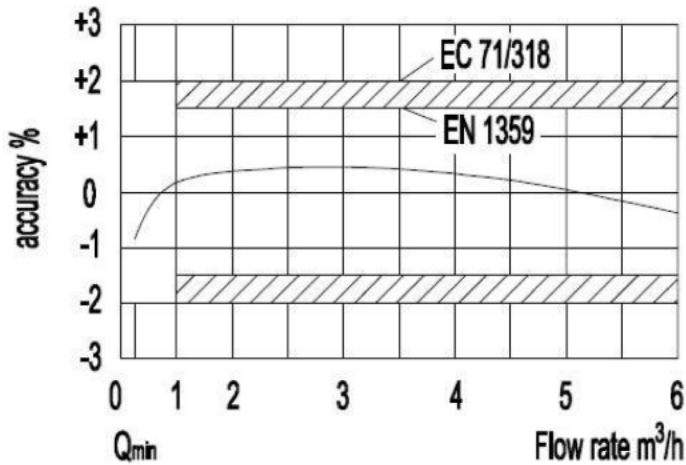
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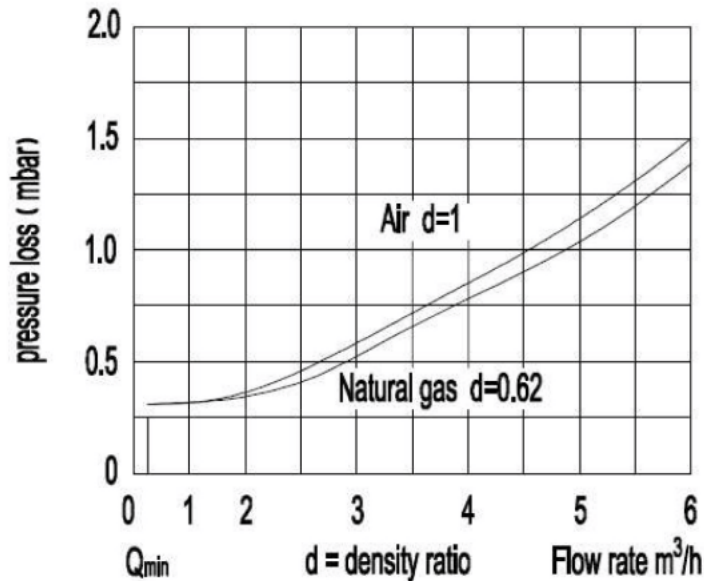
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Typical error curve



Pressure drop curve



Your contacts

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