



Garanti Belgesi

Üretici veya İthalatçı Firmanın

Ünvanı : ELSEL Gaz Armatürleri Sanayi ve Ticaret A.Ş.

Adresi : Çavuşoğlu Mah. Seddülbahir Cd. No: 49 34873 Kartal / İstanbul / Türkiye

Telefon: +90 (216) 306 48 60 / 4 Hat

Fax : +90 (216) 374 51 53

e-posta: elsel@elsel.com.tr

Malın

Cinsi : DOĞALGAZ SAYACI

Markası : E.C.A.

Modeli : BK G 1,6 - BK G 2,5 - BK G 4
BK G 6 - BK G 10 - BK G 16
BK G 25

Garanti Süresi : 2 yıl

Azami Tamir Süresi : 20 iş günü

Bandrol ve Seri No :



Teknik Özellikler

Tip: Körüklü gaz sayacı

max. izin verilen ortam sıcaklık aralığı (t_m)

t_m = -25°C . . . 55°C

max. izin verilen muhafaza sıcaklığı = -25°C . . . 60°C

(BK G için)

Ölçme genişliği 1/160

Renk Açık gri Ral 7035

Ölçme hacmi BK-G 1,6/2,5/4 : 1,2 dm³

Ölçme hacmi BK-G 6 : 2 dm³

Ölçme hacmi BK-G 10/16 : 6 dm³

Ölçme hacmi BK-G 25 : 12 dm³

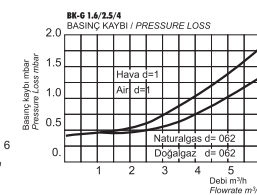
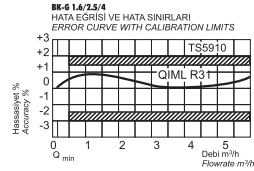
İşletme basıncı 0,5 bar

Test basıncı 0,75 bar

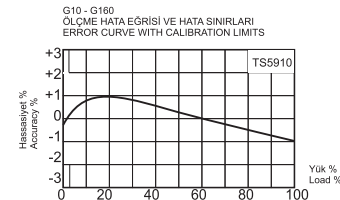
Patlama basıncı ≥ 1 bar

Korozyon mukavemeti Özel kaplanmış sac ve yüksek kaliteli toz boya

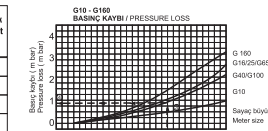
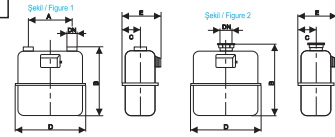
Ebat Size	Ölçme Hacmi Cyclic Volume dm ³	Ölçme aralığı m ³ /h Measuring range m ³ /h Q _{min} Q _{max}	Diğ Thread size	Baglantı Connection DN	Boyutlar (mm) Dimension (mm)					Ağırlık Weight Kg
					A	B	C	D	E	
G 1,6	1,2	0,016 2,5	3/4"	25	110	210	67	193	157	1,75
G 1,6	1,2	0,016 2,5	1"	32	110	210	67	193	157	1,75
G 2,5	1,2	0,025 4	3/4"	25	110/130	210	67	193/204	157	1,75/2,1
G 2,5	1,2	0,025 4	1"	32	110/130	210	67	193/204	157	1,75/2,1
G 4	1,2	0,040 6	3/4"	25	110/130	210	67	193/204	157	1,75/2,1
G 4	1,2	0,040 6	1"	32	110/130	210	67	193/204	157	1,75/2,1



Spil Figür	Ebat Size	Ölçme Hacmi Cyclic Volume dm ³	Ölçme aralığı m ³ /h Measuring range m ³ /h Q _{min} Q _{max}	Diğ Thread size	Baglantı Connection DN	Boyutlar (mm) Dimension (mm)					Ağırlık Weight Kg
						A	B	C	D	E	
1	G6	2	0,060 10	1 1/4"	25	152,4	252	71	226	163	3,0
	G10	6	0,1 16	2"	40	250,280	330	108	405	234	5,7
	G16	6	0,16 25	2"	40	250,280	330	108	405	234	5,7
	G25	12	0,25 40	2 1/2"	50	335	398	138	465	289	10
2	G10	6	0,1 16	2 3/4"	40	-	323	85	334	215	5,1
	G16	6	0,16 25	2 3/4"	40	-	323	85	334	215	5,1
	G25	12	0,25 40	2 1/2"	50	-	385	138	465	289	10,6



Örnek
1) Yük %80
2) Doğalgaz
3) Sayıcı G40
4) Basınç kaybı 1,1 mbar



Uygunluk Beyanı



AB UYGUNLUK BEYANI



Ürün

Gaz Sayacı

Sıcaklık Dönüştürümlü Gaz Sayacı

BK-G1.6 M - BK-G25 M BK-G2,5 T - BK-G4 T

İşaretleme

CE M... 1783

DE-26-MI002-PTB019

DE-26-MI002-PTB020

2014/32/AB -MID

TS EN 1359:2018 (EN1359:2017)

AB Tip İncelemesi

DE-26-MI002-PTB019, DE-26-MI002-PTB020

(MID-2014/32/AB, EK II, Modül B)

Physikalisch-Technische Bundesanstalt (PTB) Onaylanmış Kuruluş 0102

Gözetim Prosedürü

2014/32/AB Ek II, Modül D

Türk Standartları Enstitüsü (TSE) Onaylanmış Kuruluş 1783

(1783-MID-006)

Üretici olarak, yukarıda belirtilen ürünlerin, listelenen yönetmelikler ve standartlardaki gereksinimleri karşıladığını beyan ederiz. Ürünler test edilen tip numunelerine uygundur. Üretim belirtilen gözetim prosedürüne tabi tutulmaktadır.

8.06.2026

Onaylayanlar;

Mehmet Behlül Özkumruoğlu

Kazım Süner

ELSEL Gaz Armatürleri San. Ve Tic. A.Ş.

Çavuşoğlu Mahallesi Seddülbahir Cad. No:49 34873 Kartal/İstanbul/Türkiye

01-FR-06 Rev 02

İMALATÇI FİRMA :

ELSEL GAZ ARMATÜRLERİ SANAYİ VE TİCARET A.Ş.

Çavuşoğlu Mah. Seddülbahir Cd. No : 49 34873 KARTAL - İ STANBUL

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SERVİS :

ELSEL GAZ ARMATÜRLERİ SANAYİ VE TİCARET A.Ş.

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TS EN 1359

BK-G 1.6 – BK G 25

Körüklü Gaz Sayaçları Kullanma Kılavuzu

BK Körüklü Gaz Sayaçlarının En Önemli Özellikleri

- Kromschröder lisanslı
- TS EN 1359'a uygun
- 0,2 Q_{max} - Q_{max} aralığında ölçme hata yüzdesi ±%1,5'dan düşük
- 0,016 m³/h – 40 m³/h ölçme aralığı
- Oval sentetik diyafram
- Pnömatik frenli körük hareketleri
- Eğri kontrollü sürgüler. K – sistemi
- Küçültülmüş sürgüler
- RPF* değeri 0,9
- Sessiz çalışma
- Gövde korozyona mukavim özel kaplanmış çelik sac malzeme
- Paslanmaz çelik çember
- Paslanmaz çelik manyetik kaplin
- Kesin gaz sızdırmazlık emniyeti
- İşletme basıncı : 0,5 bar
- Test basıncı : 0,75 bar
- Servis bakım gerektirmez

RPF* = Direnç faktörü RPF, çalışan sürgü yüzeyleri alanının ölçme hacmine oranısı olarak tarif edilir, BS 4161 kısım 3'e göre bu değer 1,2'yi aşmamalıdır.

KROMSCHRÖDER lisanslı ile ELSEL A.Ş.'de üretilmiştir..



BK G1,6 GAZ SAYACI



BK G2,5 GAZ SAYACI



BK G4 GAZ SAYACI



BK G6 GAZ SAYACI



BK G10-16 GAZ SAYACI



BK G25 GAZ SAYACI



WARRANTY CERTIFICATE

Manufacturer's and/or Exporter's

Name : ELSEL Gaz Armatürleri Sanayi ve Ticaret A.Ş.

Address : Çavuşoğlu Mah. Seddülbahir Cd. No: 49 34873 Kartal / İstanbul / Turkey

Phone : +90 (216) 306 48 60 / 4 Lines

Fax : +90 (216) 374 51 53

E-mail : elsel@elsel.com.tr

Product's

Description : GAS METER

Brand : E.C.A.

Type : BK G 2,5 T - BK G 4 T

Guarantee Period : 2 years

Maximum lead time for completing repairs : 20 workings days

Tax sticker and serial numbers :

Dealer Company's

Name :

Address :

Phone :

Fax :

E-mail :

Invoice Date and No. :

Delivery Date and Place:

Authorized Signature :

Company Stamp :



Type : Residential diaphragm gas meter

max. allowable ambient temperature range (tm)

tm = -25°C55°C

Base temperature tb=15 C or tb= 20 C (for BK G T)

Specified centre temperature tsp = 20°C (for BKG T)

Compensation range 1 / 160

Colour Light Grey to Ral 7035



BK G2,5 T GAS METER



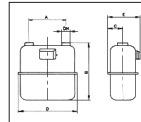
BK G4T GAS METER

THE MOST IMPORTANT FEATURES OF THE BK DIAPHRAGM GAS METER

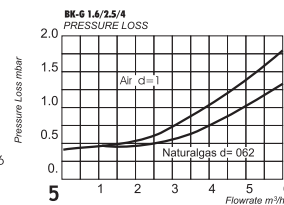
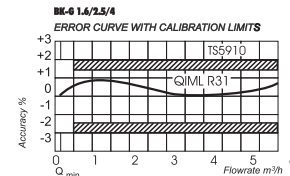
- Licence from Kromschöder A.G.
- TS EN 1359
- Error limit ex- works within the range of $\pm 1,5\%$
- Measurement range from 0,025 m³/h to 6 m³/h
- Synthetic diaphragm, shaped like sports stadium
- Pneumatically stopped diaphragm strokes
- Curve controlled slides. K - system
- Small slides

- Very favourable RPF of 0,9
- Operation at low noise level
- Casing of 0,8 mm thick special coated steel sheet
- Stainless steel meter belt.
- Magnetic coupling of stainless steel
- Permanent gas tight connections
- Operating pressure : max 0,5 bar
- Test pressure : 0,75 bar
- Service, maintenance - free.

RPF* = Resistance Power factor is the ratio of valve grid surface to the capacity per revolution of the meter mechanism. This value should not exceed 1,2 according to BS 4161/3



Ebat Size	Ölçme Hacmi Cyclic Volume dm ³	Ölçme aralığı m ³ /h Measuring range m ³ /h Q _{min} Q _{max}		Dış Thread size	Bağlantı Connection DN	Boyutlar (mm) Dimension (mm)					Ağırlık Weight Kg
						A	B	C	D	E	
G 2,5T	1,2	0,025	4	1"	32	110/130	210	67	193/204	157	1,75/2,1
G 4 T	1,2	0,040	6	1"	32	110/130	210	67	193/204	157	1,75/2,1



Cyclic volume BK-GT 2,5/4 : 1,2 dm³

Operating pressure 0,5 bar

Test pressure 0,75 bar

Bursting pressure ≥ 1 bar

Corrosion protection Special electroplated sheet steel with high quality powder paint

Declaration of Conformity



EU DECLARATION OF CONFORMITY



Product Gas meter
Gas Meter with integrated temperature conversion

Type/Model BK-G1,6 M - BK-G25 M BK-G2,5 T - BK-G4 T

Product Marking M... 1783
DE-26-MI002-PTB019
DE-26-MI002-PTB020

EU Directive 2014/32/EU-MID

Standards TS EN 1359:2018 (EN1359:2017)

EU Type-Examination DE-26-MI002-PTB019, DE-26-MI002-PTB020
(MID-2014/32/EU, Annex II Module B)
Physikalisch-Technische Bundesanstalt (PTB) Notified Body 0102

Surveillance Procedure 2014/32/EU Annex II, Module D Turkish Standards Institution (TSE) Notified Body 1783
(1783-MID-006)

We declare as manufacturer that products stated above comply with the requirements of the listed directives and standards. They correspond to the tested type samples. The production is subjected to the stated surveillance procedure.

04.06.2026

Approved by:

Mehmet Bander Özokumuşoğlu

Kazım Salmer

Elsel Gaz Armatürleri San. Ve Tic. A.Ş.

Çavuşoğlu Mahallesi Seddülbahir Cad. No:49 34873 Kartal/İstanbul/Türkiye

01-FR-06 Rev 02



TS EN 1359

OPERATING INSTRUCTIONS DIAPHRAGM GAS METERS BK-G 2.5 T to BK-G 4T

Produced by ELSEL A.Ş. under KROMSCHRÖDER AG licence.



Safety

Please read and keep in safe place



Please read through these instructions carefully before installing or operating.

Liability

We will not be held liable for damages resulting from non-observance of the instructions and noncompliant use.

Safety instructions

Information that is relevant for safety is indicated in the instructions as follows:

DANGER
Indicates potentially fatal situations.

WARNING
Indicates possible danger to life and limb.

! CAUTION
Indicates possible material damage.

All interventions may only be carried out by qualified gas technicians. Electrical interventions may only be carried out by qualified electricians.

Transport

Diaphragm gas meters must always be transported in the vertical position. They must be protected from external strikes and should never be dropped. On receipt of the product, check that the delivery is complete. Report any transportation damage immediately.

Storage

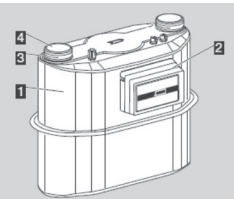
Diaphragm gas meters must always be stored in the upright position and in a dry place. Ambient temperature: see Technical data.

Checking the usage

Diaphragm gas meters
BK-G2.5T to G4T

Residential diaphragm gas meters BK for recording gas consumption values for natural gas, town gas, propane and butane, as gases of the first to third families pursuant to DIN EN 437:2003 (DVGW Code of Practice G260). The meters are designed for use in air at normal atmospheric conditions. For use in other environments, please contact the manufacturer.

Part designations

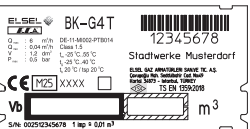


- 1 Diaphragm gas meter BK
- 2 Index with index plate
- 3 Connectors
- 4 Protective caps

Type label/Index plate

Diaphragm gas meters
BK-G T

V: volume at metering conditions
V₀: converted volume to base temperature t₀
V₀: converted volume to base conditions (pressure and temperature)



Installation

WARNING

Please observe the following instructions to ensure that neither people nor the gas meter are damaged during installation and operation:

- Note that the max. allowable operating pressure is p_{max} and measuring range is Q_{max}, see [Type label/Index plate – p.2].
- Note that the permitted ambient temperature is t_m and gas temperature is t_g, see [Type label/Index plate – p. 2] or [Technical data – p. 5].
The gas meter is suitable for mechanical ambient conditions of Class M1 of Directive 2014/32/EU
- Only use the seals once.
If the calibration seal has been damaged or removed, the gas meter is no longer approved for measurements which are subject to statutory testing.

Installation

1. In the installations to be made in outdoors, it is advised that the gas meter is placed in iron sheet or plastic case for protection. There can be evaporation in the numerators of the gas meter exposed to moisture such as rain and snow.
2. The gas meter must be handled in a vertical position and must be protected from external strikes and should never be dropped.
3. The connection of the gas meter must be made in a way that will not cause stress in the pipping . It is strictly recommended that a flex connection is used in one end.
4. Ensure there is sufficient installation space.
5. Ensure unobstructed view of the index.
6. The seal faces on the screw unions must be clean and damage-free.
7. The gas meter must be mounted in vertical position (connectors must be pointing upwards),
8. The slag, the welding residuals, etc. in the piping must be cleaned before mounting the gas meter.
9. There must not be electrical devices such as electricity meter, buvat, electical bell, etc. in the area close to where the gas meter will be installed or stored. The piping must not be used as grounding for any device.
10. An appropriate sized gas cutting valve should be used in the gas entry part of the gas meter.
11. Do not over squeeze the records of the meter. Non–leakage is provided by gaskets.
12. Natural Gas, Air Gas, Propane, Butane, Air, Noble Gases (EN 437) may also be used.
13. When installed, the metres must not be subject to permanent vibration such as that caused by machines in the vicinity. In case of doubt, vibration isolation must be provided.
14. The dangers of chemical reactions between gas meter parts an the chemical substances in the environment are to be discussed by the manufacturer and the operator and must be eliminated.
15. Note direction of flow (arrow). (Gas entry must be in the direction of the arrow on top of the gas meter from the left and exit from the right.)
16. Ensure that be seal is correctly seated.

Tightness Test

- 1- 200-300 mbar pressure is enough in non-leakage control of the piping.
When there is the necessity of pressure control with 750 mbar or above, the gas meter should be disassembled from the piping. Otherwise, the installed gas meter may be damaged.
- 2- Apply the test pressure slowly to the gas meter.
- 3- If a pressure measuring line has been retrofitted to the diaphragm gas meter, check this connection for tightness.
- 4- After the tightness test, slowly vent the gas meter.

Commissioning

Once the tightness test has been successfully completed, the gas meter is ready for operation. Slowly open the manual valve.

Maintenance/Removal

Gas meters BK-G 2.5 T to G4 T from Elser are maintenance-free.

When used for custody transfer measurements, recalibration must be carried out in accordance with national directives.

After the gas meter has been removed, immediately close the connectors with protective caps, in order to prevent an ingress of dirty particles.

For transporting the gas meter with gas residue, use a vehicle with an open or a ventilated loading area.

WARRANTY TERMS AND CONDITIONS

1. Guarantee period is 2 years beginning from the delivery date of the product.
2. This warranty covers the product in it's entirety including all of it's parts.
3. Consumer may use one of the rights in No. 6502 Article 11 of the Law on the Protection of the Consumer;
 - a- Renege on a contract
 - b- Demand on abatement of purchase money
 - c- Demand on free repair
 - d- Amendment request with the product without defects
4. If the consumer demands on free repair from between these rights, the seller is responsible for repairing them without asking for a fee for labour cost, spare part cost or under the name of anything. Consumer may use free repair demand right towards manufacturer or importer. Seller, producer and importer are severally responsible against use of this right of the consumer.
5. In case of free repair demand:
 - Breaking down once again in guarantee period,
 - Overrun the maximum lead time to repair.
 - The seller may demand refund for the related product, price discount at the rate of defect or amandment request with the product without defects if there is an opportunity, if authorized service , seller, producer or importer determine that the repair of the product is not possible with a report. The seller cannot reject consumer demand. Seller, manufacturer and importer are severally responsible, if this demand is not executed.
6. If this product malfunctions any time within the guarantee period, the guarantee period will be extended by the time to be taken to repair it. Repairs shall be completed within maximum 20 working days. Said repair period will begin to count down when such failure is notified to the relevant service workshop, or in the absence of such workshop, to the seller, dealer, agent, represantive, importer or manufacturer of is this product. If such malfunction can not be repaired within 10 working days, the manufacturer or the importer shall supply a similar product available for the consumer and allow the consumer to use the replacement until the repairs are completed.
7. Malfunctions which may occur from the consumer's use of this product not in accordance with it's user's manual will be excluded from the warranty cover Disputes which may arise between the parties regarding to this warranty certificate must be referred to the General Directorate of Protection of Consumers and Competition for the Ministry of Customs and Trade.
8. Consumer may apply to Arbitration Committee for Consumer Problems or the Consumer Court in case of disputes which might arise from the excise of rights that are covered by the warranty.
9. Consumer may apply to the Ministry of Customs and Trade General Directorate of Protection of Consumers and Market Surveillance if this Warranty Certificate is not given by seller.

