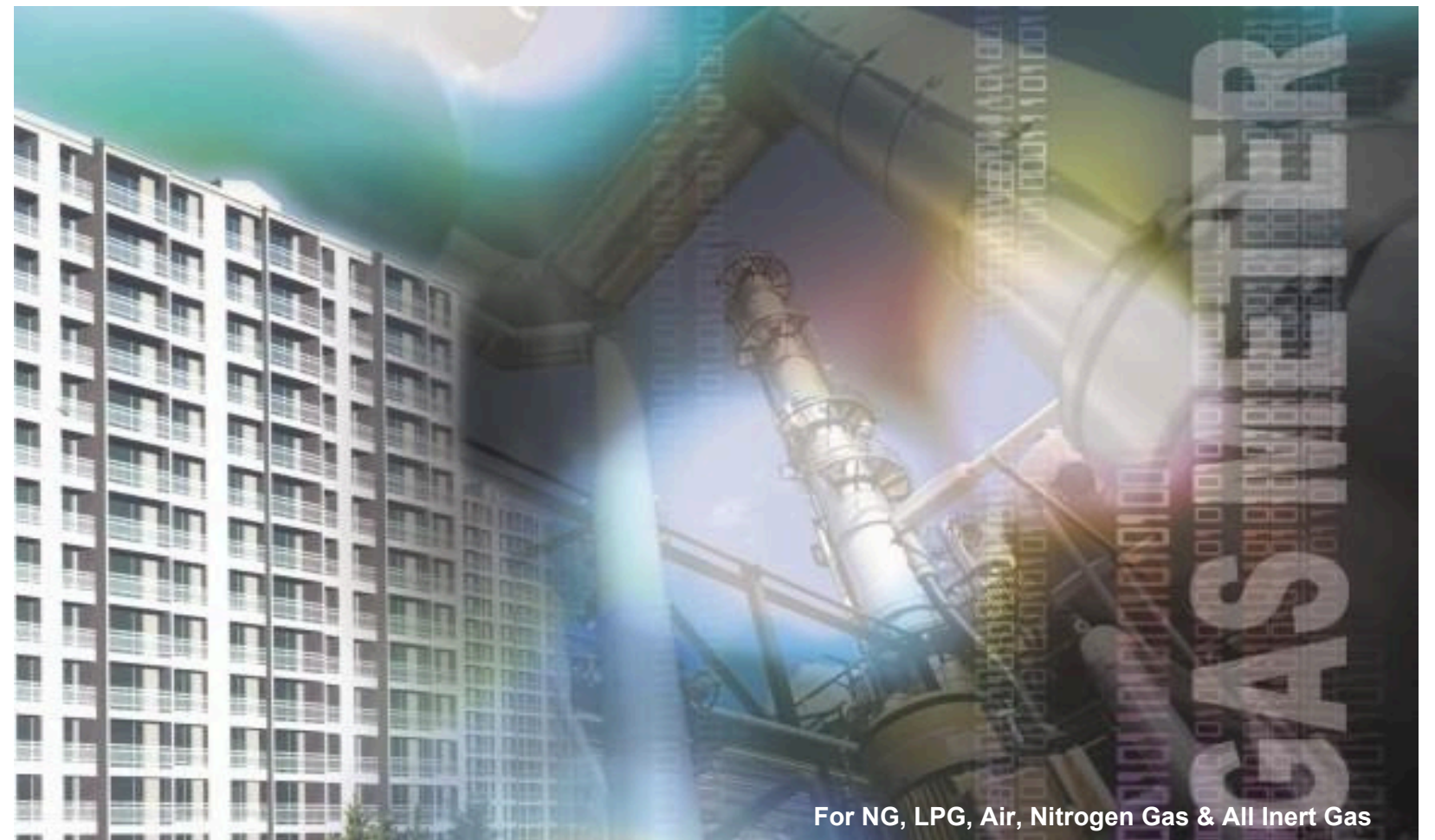




 **KumHo Metertech Inc.**



For NG, LPG, Air, Nitrogen Gas & All Inert Gas

GAS METER

Diaphragm

GAS METER



 **KumHo Metertech Inc.**



KumHo Metertech Inc.

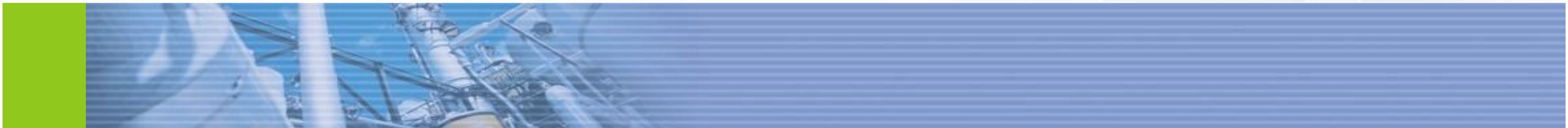
DIAPHRAGM GAS METER

KumHo gas meters have been supplied throughout the world for many decades.

The quality and durability is proven among customers in Russia / CIS, South America, South East Asia and Middle East.

Contents

4 ~ 5	KG - 2 (G 1.6)
6 ~ 7	KG - 3 (G 1.6) & KG - 3S (G1.6)
8 ~ 9	KG - 4 (G 2.5)
10 ~ 11	KG - 6 (G 4)
12 ~ 13	G6 / G10 ~ G25 / G40 ~ G100
14 ~ 15	PREPAYMENT



For NG, LPG, Air, Nitrogen Gas & All Inert Gas

DIAPHRAGM GAS METER

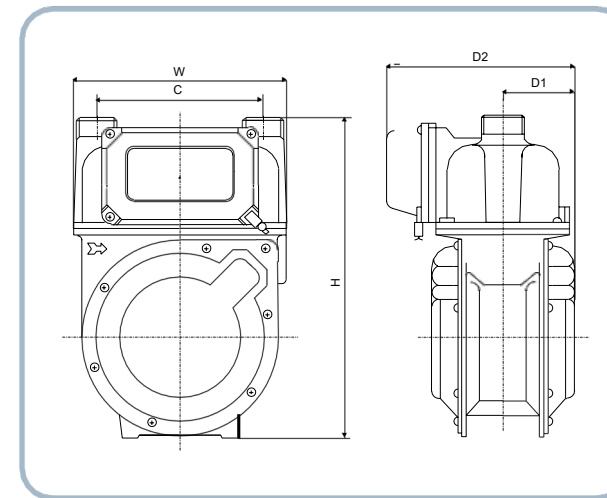


KG-2(G1.6)

FEATURES

- Most Suitable small gas meter LP gas cylinder.
(LPG, NG, air, Nitrogen gas, Inert gas also available)
- Maximum flowrate 2.5 m³/h is one of the most important features in consideration of meter size.
- Sufficient aging time of components ensures long working life.

SPECIFICATION



Normal Working Pressur	Max.1000 mm H2O(10kaPa)	
Maximum Flowrate	2.5m ³ /h	
Minimum Flowrate	16L/h	
Cyclic Volume	0.4L/rev	
Register Capacity	9,999m ³	
Minimum Graduation	0.2L	
Net Weight / With Accessories	1.2/1.47kg	
Dimension	Height (H)	197 mm
	Width (W)	128 mm
	Center(C)	100 mm
	Depth (D1)	44 mm
	Depth (D2)	110 mm
Inlet & Outlet Connection Size (D2)	15 mm (1/2 inch)	

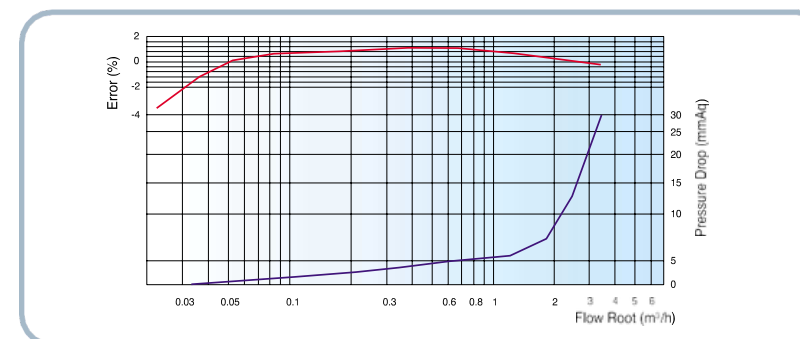
CONSTRUCTION

- Valve travel system consists of horizontal crank shaft and rotary valve.
- Use of anti-freezing and round synthetic diaphragm rubber ensure long life time.
- Separation of measuring chamber and index eliminates leakage of gas, even though index cover glass is broken.
- All components are assembled by screws. So repairing is easy.

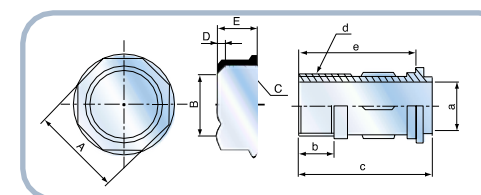
MATERIAL

- Aluminum - diecasting body is proven to be solid structure.
- Valve made of graphite - teflon phenol resin minimizes friction and increases wear-resistance and anti - freezing.
- Highly wear - resistant bearings and sturdy transmission parts ensure a long trouble - free life.
- Especially rotarying parts are sealed tightly with anti-freezing grease.

PERFORMANCE CURVE



CONNECTION TUBE & NUT



Model	NUT(mm)					TUBE(mm)				
	A	B	C	D	E	a	b	c	d	e
KG-2(G1.6)30	φ21	φ25	3.0	16	φ14	18	50	15mm PT1/2"	44	

For NG, LPG, Air, Nitrogen Gas & All Inert Gas

DIAPHRAGM GAS METER

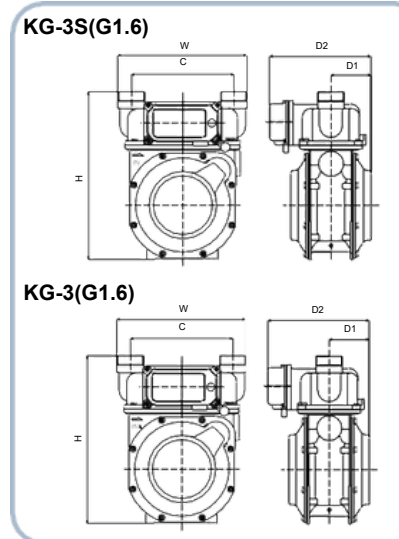


KG-3S(G1.6) & KG-3(G1.6)

FEATURES

- For its small size, maximum flow rate is 3.1 m³ / h
- High sensitivity enables to measure even smaller flame of pilot burner exactly.
- Sufficient aging time of components ensures long working life.

SPECIFICATION



Category	KG-3S(G1.6)	KG-3(G1.6)	
Normal Working Pressure	Max. 1000 mm HO	Max. 1000 mm HO	
Maximum Flowrate	3.1 m ³ / h	3.1 m ³ / h	
Minimum Flowrate	16 L / h	16 L / h	
Cyclic Volume	0.7 L / rev	0.7 L / rev	
Register Capacity	9,999 m ³	9,999 m ³	
Minimum Graduation	0.2 L	0.2 L	
Net Weight / With Accessories	1.6 / 1.88 kg	1.6 / 1.88 kg	
Dimension	Hight (H)	209 mm	214 mm
	Width (W)	146 mm	164 mm
	Center (C)	100 mm	130 mm
	Depth (D1)	51 mm	51 mm
	Depth (D2)	130 mm	130 mm
Inlet & Outlet Connection Size	15 mm (1 / 2 inch)	20 mm (3 / 4 inch)	

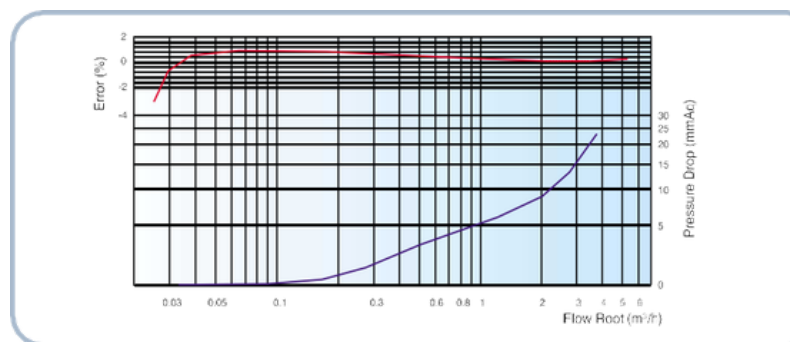
CONSTRUCTION

- Valve travel system consists of horizontal crank shaft and rotary valve.
- Use of anti-freezing and round synthetic diaphragm rubber ensure long life time.
- Separation of measuring chamber and index eliminates leakage of gas, even though index cover glass is broken.
- All components are assembled by screws. So repairing is easy.

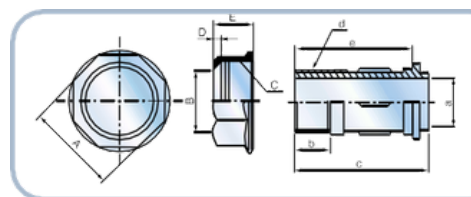
MATERIAL

- Aluminum - diecasting body is proven to be solid structure.
- Valve made of graphite - teflon phenol resin minimizes friction and increases wear - resistance and anti - freezing.
- Highly wear - resistant bearings and sturdy transmission parts ensure a long trouble - free life.
- Especially rotary parts are sealed tightly with anti-freezing grease.

PERFORMANCE CURVE



CONNECTION TUBE & NUT



Model	NUT (mm)					TUBE (mm)				
	A	B	C	D	E	a	b	c	d	e
KG-3S(G1.6)	30	φ21	φ25 18 Thread 1/2 inch	3.0	16	φ14	18	50	15mm PT 1/2	44
KG-3(G1.6)	37	φ28	M34	1.5	3.0	16	φ20	15	55	20mm PT 3/4

For NG, LPG, Air, Nitrogen Gas & All Inert Gas

DIAPHRAGM GAS METER

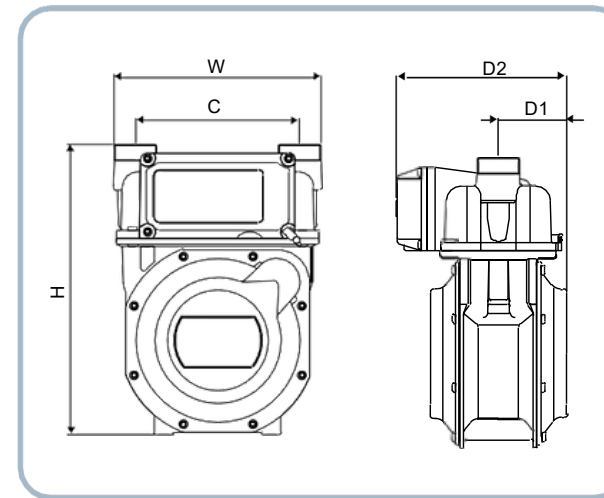


KG-4(G 2.5)

FEATURES

- For its small size, maximum flowrate is 4.0m³ / h
- High sensitivity enables to measure even smaller flame of pilot burner exactly.
- Sufficient aging time of components ensures long working life.
- Enlarged index for convenient reading.

SPECIFICATION



Normal Working Pressur	Max.1000 mm H2O	
Maximum Flowrate	4.0 m ³ / h	
Minimum Flowrate	25 L / h	
Cyclic Volume	1.0 L / rev	
Register Capacity	99,999 m ³	
Minimum Graduation	0.2 L	
Net Weight / With Accessories	2.0 / 2.3 kg	
Dimension	Height (H)	230 mm
	Width (W)	165 mm
	Center(C)	130 mm
	Depth (D1)	54 mm
Inlet & Outlet Connection Size (D2)	Depth (D1)	135 mm
	Depth (D2)	20 mm (3 / 4 inch)

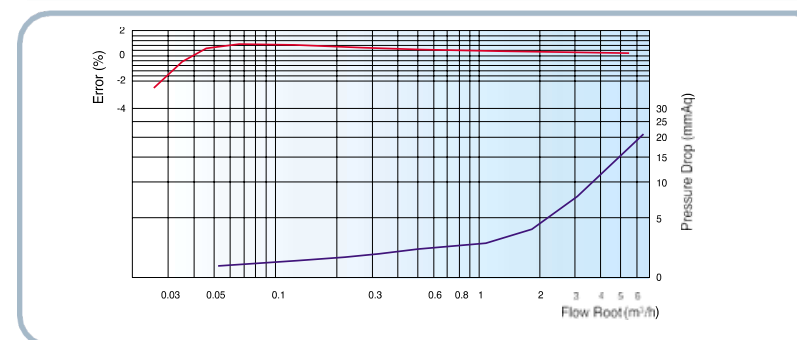
CONSTRUCTION

- Valve travel system consists of horizontal crank shaft and rotary valve.
- Use of anti-freezing and round synthetic diaphragm rubber ensure long life time.
- Separation of measuring chamber and index eliminates leakage of gas, even though index cover glass is broken.
- All components are assembled by screws. So repairing is easy.

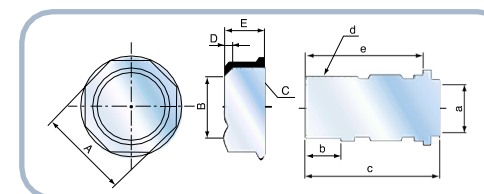
MATERIAL

- Aluminum - diecasting body is proven to be solid structure.
- Valve made of graphite - teflon phenol resin minimizes friction and increases wear - resistance and anti - freezing.
- Highly wear - resistant bearings and sturdy transmission parts ensure a long trouble - free life.
- Especially rotarying parts are sealed tightly with anti - freezing grease.

PERFORMANCE CURVE



CONNECTION TUBE & NUT



Model	NUT(mm)					TUBE(mm)				
	A	B	C	D	E	a	b	c	d	e
KG-4(G2.5)37	∅28	M34	1.5	3.0	16	∅20	15	55	20 mm PT 3/4	48

For NG, LPG, Air, Nitrogen Gas & All Inert Gas

DIAPHRAGM GAS METER

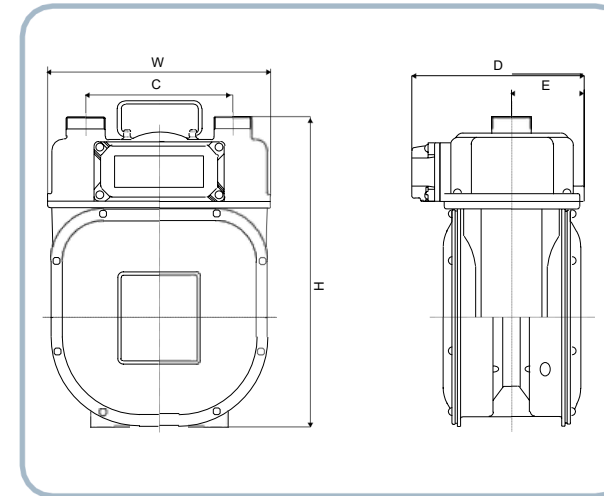


KG-6(G 4)

FEATURES

- Max, flowrate per hour for KG-6(G4) is 6.0m³/H.
- High sensitivity enables to measure even smaller flame of pilot burner exactly.
- Distinguished weather-proof, for body is made of aluminium diecasting.
- Simple in setting and pipe laying.
- Employment of instrumental error matching device offers a uniform instrumental error curve from a small flowrate to a large flowrate and the fall in the maximum flowrate is slight.
- Space of standing drain is large, not the late motion and no motion by drain.

SPECIFICATION



Normal Working Pressure	Max.0.5 bar	
Maximum Flowrate	6.0m ³ / h	
Minimum Flowrate	40 L	
Cyclic Volume	1.5 L	
Register Capacity	9,999m ³	
Minimum Graduation	0.2 L	
Weight	3.7 kg	
Dimension	Hight (H)	278 mm
	Width (W)	198 mm
	Depth (D)	154 mm
	Center(C)	130 mm
Inlet & Outlet Connection Size	20 mm (3 / 4 inch)	

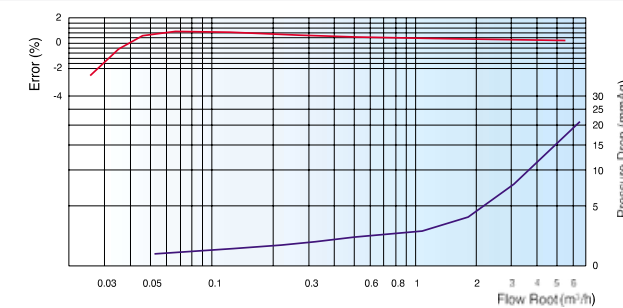
CONSTRUCTION

- Valve travel system of KG-6(G4) consists of vertical crank shaft and straight valve.
- Use of anti-freezing and round synthetic diaphragm rubber ensures long life time.
- Separation structure of measuring chamber and index eliminates leakage of gas, even though index cover glass is broken.
- All components are assembled by screws. So repairing is easy.

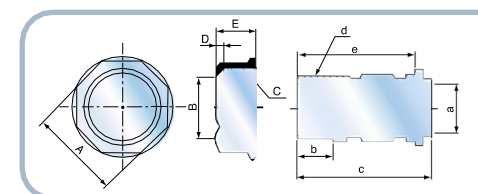
MATERIAL

- Aluminum - diecasting body is proven to be solid structure.
- Valve made of graphite - teflon phenol resin minimizes friction and increases wear - resistance and anti-freezing.
- Highly wear - resistant bearings and sturdy transmission parts ensure a long trouble - free life.
- Especially, crank shaft is sealed tightly with anti - freezing grease.

PERFORMANCE CURVE



CONNECTION TUBE & NUT



Model	NUT(mm)					TUBE(mm)					
	A	B	C	D	E	a	b	c	d	e	
KG-6(G4)	37	∅28	M3/4	1.5	3.0	16	∅20	15	55	20 mm PT 3/4	48

For NG, LPG, Air, Nitrogen Gas & All Inert Gas

DIAPHRAGM

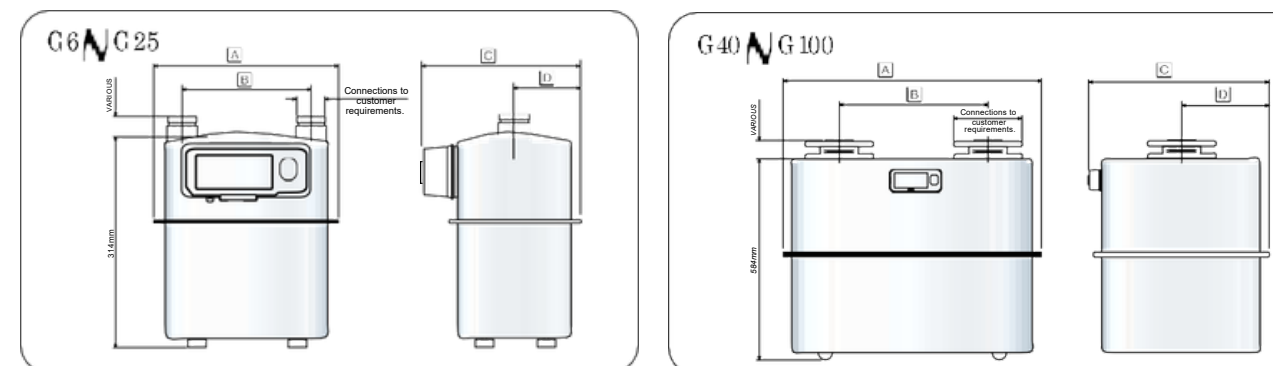
GAS METER



FEATURES

- Low pressure loss
- Wide range of measurements by volumetric type.
- Valve's movement by radial method
- Excellent Gastightness
- Designed by ISO 9001
- Pulse Hansmitter available of AMR (Automatic Meter-reading System)
- High fireproofing and Gastightness by materials of body made of Terne

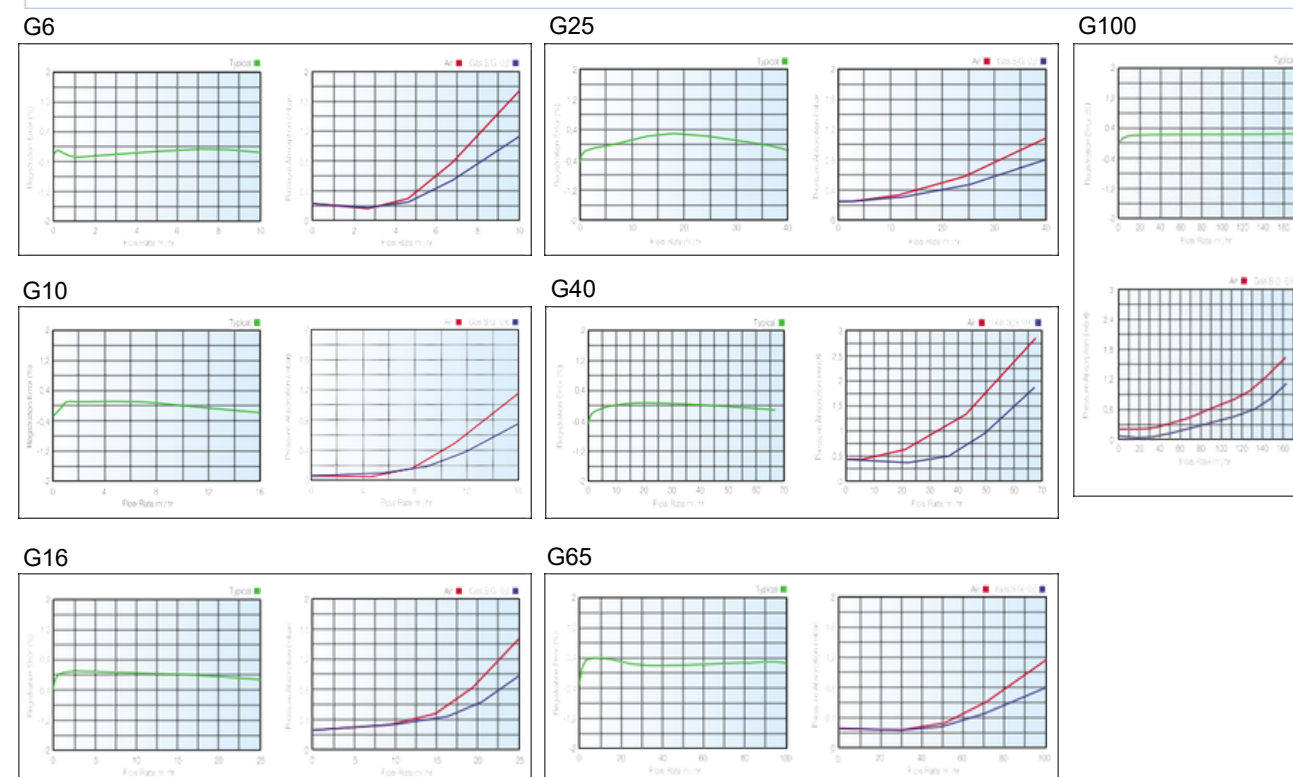
DIMENSIONS



TECHNICAL DATA

	Connection DN(MM)	Flowrate (M3/H)		Working Pressure Bar	Cycle Volume dm³	Pulse Volume m³	Dimension				Weight kg	Remark
		Qmin.	Qmax.				A	B	C	D		
G6	25	0.04	10	0.5	2.0	0.01		250(152.4)	192	81	4	
G10	40	0.1	16	0.5	5.88	0.1	390	280(152.4/250)	260	116	10	
G16	40	0.16	25	0.5	10	0.1	406	280(250)	300	135	16.5	
G25	50	0.25	40	0.5	20	0.1	476	335(280/400)	390	180	26.5	
G40	80	0.4	65	0.5	30	0.1	615	430(335/500)	390	180	43.5	
G65	80	0.65	100	0.5	60	0.1	750	500(430)	525	255	78	
G100	100	1.0	160	0.5	75	0.1	750	500(430)	530	255	84	

PERFORMANCE CURVE



For NG, LPG, Air, Nitrogen Gas & All Inert Gas

DIAPHRAGM GAS METER



PREPAYMENT

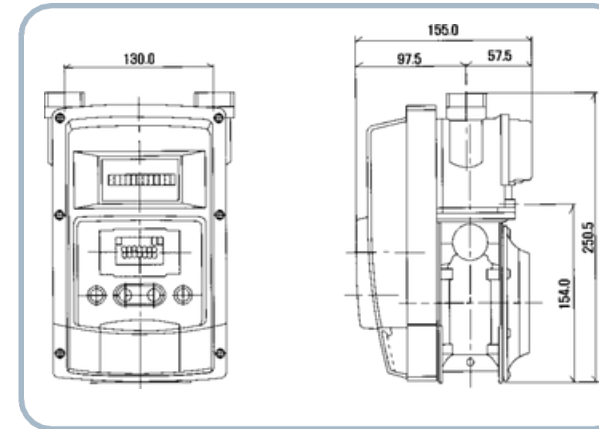
Definition

Prepayment Gas Meter is a brand-new type of Gas Meter. You can insert IC Card into Gas Meter. IC Card is rechargeable. As a result, we can get rid of reading, billing, unpayment or billing overdue. By reducing cost in this way, utilities can make a big profit to supply gas to customer in cheaper price.

Features

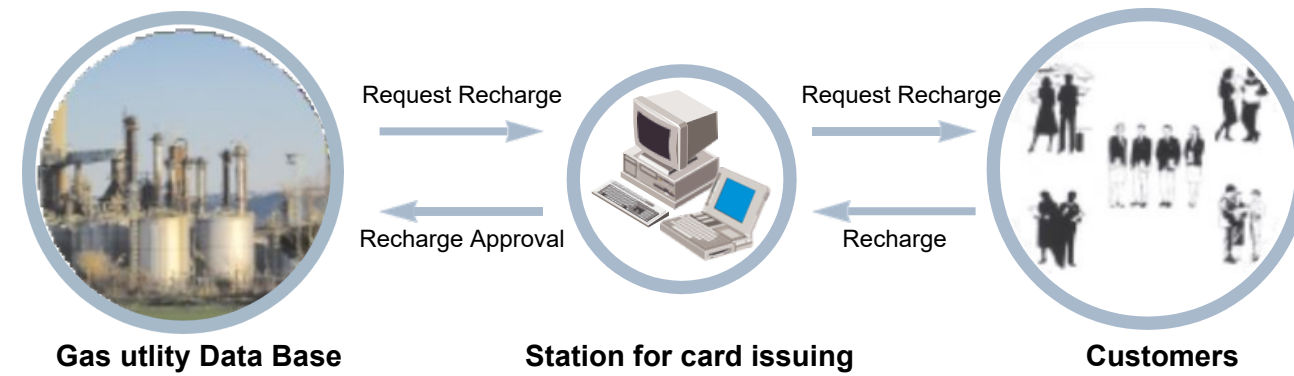
- Safety against gas leakage due to including function of simple Micom Gas Meter, which cuts gas off within 0.3s
- Prevention from billing unpaid by Prepayment System.
- No need to send meter reader.
- Possible to supply gas in cheaper price.
- TOU

SSPECIATION

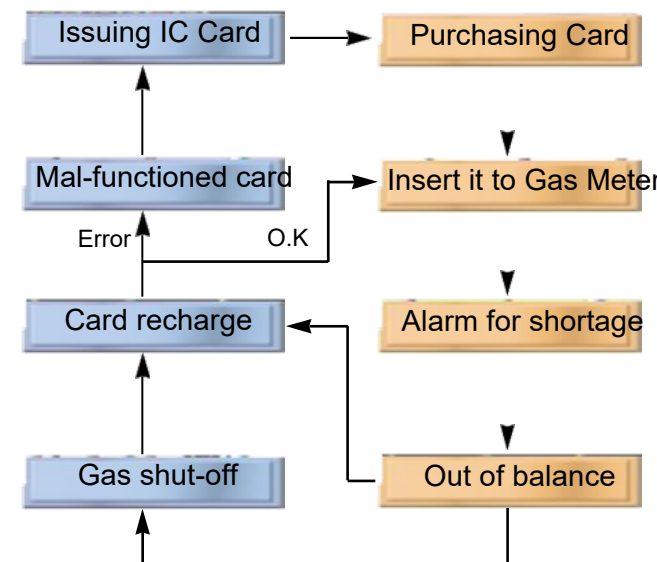


Normal Working Pressure	Max.1000 mm H2O
Maximum Flowrate	3.1m3 / h
Minimum Flowrate	16L / h
Cyclic Volume	0.7L / rev
Register Capacity	9,999 m3
Minimum Graduation	0.2 L

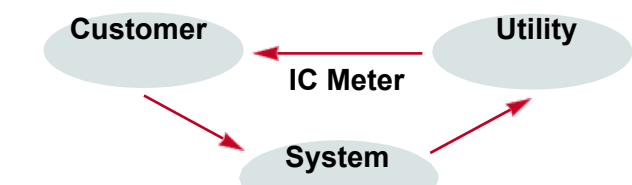
OPERATION



Card Life Cycle



Benefit for IC Card system



Utility

- Demand expectation
- Saving maintenance cost
- Providing customized service

Customer

- Paying according to actual consumption
- Keeping security from meter readers
- Reading meters during absence

System

- Constructing system aimed at future usages
- Constructing customized service system