

Customer **ECOMPANY BVBA**
MECHELSESTEENWEG 382
3020 HERENT
BELGIE

Device Rotary Gas Meter
Manufacturer : GFO Europe B.V.
Type : GFO-RM G40 DIN PN16 R-L DN50
Serial no. : 21780761

Calibration Method The deviation of the device under test is established with the master meter method.
The references that are used are traceable to the National standard of gas measurement.

Date of Calibration : 26-07-2017

Results : The results of the calibration are stated on page 2 of 2

Traceability : The results of the calibration services of GFO Europe B.V. are traceable to primary and /or (inter)nationally accepted measurement standards.

GFO Europe B.V. is certified according ANNEX D of the European Council directive 2014/32/EU relating to gas meters (MID; MI002) under certificate number CE-216.

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Nederweert, 26-07-2017
GFO Europe B.V .

Manufacturer : GFO Europe B.V.
Volume : 0.69 dm³
Number/year : 21780761 / 2017
G/type/diam. : G40 / GFO-RM / 50 mm
Qmax/Qmin : 65 / 0.65 m³/h
P_{max} : 16 bar
Seals : T10620
Final index reading : 19m³

Gear wheels : 144.76

Pulse values
High Frequency : --- imp/m³
Low Frequency : 10 imp/m³
1 tr./index : 0.1 m³

Conditions The conditions at the device under test are converted to conditions at the references using the pressure and temperature measurements at the device under test and the references.
 In the determination of the flow, the pressure measurement point noted as p_{m(r)} is used.

Result

Flow rate	Flow rate [m ³ /hr]	Deviation [%]
Qmin	0.65	-1.54
5%Qmax	3.25	-0.13
15%Qmax	9.75	0.16
40%Qmax	26	0.20
70%Qmax	45.5	0.25
Qmax	65	0.33

WME = **0.23** % Weighted Mean Error

$$\text{Deviation} = \frac{\text{Indicated volume} - \text{Reference Volume}}{\text{Reference Volume}} \times 100\%$$

The total uncertainty in determination is smaller than 0.25%

The total uncertainty in determination of the deviation rate is based upon 2 x the standard deviation (K=2)

Test medium is air at a pressure of about 100 kPa (abs) and a temperature of about 21 +/- 5 degr. Celsius

Test bench is located at GFO Europe B.V., Nederweert, the Netherlands

INSPECTIECERTIFICAAT

ABNAHMEPRÜFZEUGNIS / INSPECTION CERTIFICATE / CERTIFICATE DE RECEPTION
EN 10204 – 3.1

Productnaam (Produktname / Product name / Nom du produit)		Rotary Gasmeter	
Productnummer (Produktnummer / Product number / Numéro du produit)		GFO-RM G40 DIN PN16 R-L	
Serie-Nr. (Serien-Nr./Serial-No./N° de série)		21780761	
Registratie-Nr. (Registrierungs-Nr. / Registration No. / N° enregistrement)		21780761	
Max. werkdruk (max. Betriebsdruck/ max. Op. press. / Pression Service max.)		16	bar

Beproevingsspecificatie (Prüfspezifizierung / Test specification / Spécification d'énpreuve)			
A)	Sterktebeproeving (Festigkeitsprüfung / Strengthness test / Résistance mécanique)	24	bar
A1)	Testtijd (Prüfdauer / Testtime / Durée de l'épreuve)	3	min
A2)	Test Medium : (Prüfmittel / Milieu d'essai)	Nitrogen (Stikstof)	
B)	Dichtheidsbeproeving (Dichtheitsprüfung / Leakage Test / Test d'étanchéité)	17.6	bar
B1)	Testtijd (Prüfdauer / Testtime / Durée de l'épreuve)	3	min
B2)	Test Medium : (Prüfmittel / Milieu d'essai)	Nitrogen (Stikstof)	
Opmerkingen: (Bemerkungen / Remarks / Observations)			
<p>NL- Hiermede bevestigen wij dat de afdichtingen van bovengenoemd product bij kamertemperatuur beproefd en absoluut dicht zijn en het product conform de bij de opdrachtafname geaccepteerde specificaties is.</p> <p>D- Hiermit bestätigen wir, dass die Abdichtungen vom obengenannten Product bei Raumtemperatur geprüft wurde und absolut dicht ist, und dass der Product den Vereinbarungen bei der Bestellannahme entspricht.</p> <p>UK- We hereby certify, that the packings of the product described above has been tested at room temperature and are absolutely tight. It is further certified, that the product complies with the accepted terms of the order contract.</p> <p>F- Nous certifions que l'étanchéité du produit décrit ci-dessus a été testée à température ambiante (y compris sur les doigts de gant, les robinets et les raccords) et qu'aucun défaut n'a été constaté. Nous certifions, de plus, que le produit est conforme aux termes acceptés de la commande.</p>			

Inspecteur :
Klant
Sachverständige:
Kunde
Inspection :
Customer
Inspection Client :

**GFO Europe B.V., Nederweert,
Nederland**
Datum/Date: **26-07-2017**

P. R. Segaar



Quality Assurance Manager / Qualitätsmanager / Responsable Qualité



EU Declaration of Conformity EU-Conformiteitsverklaring



With this document GFO Europe BV, The Netherlands declares that:

Met dit document verklaart GFO Europe BV, te Nederland:

Product
Product

Gas Meters – Rotary Gas Meters
Gasmeters - Gas meters met roterend verdringerelement

Type, Model Type, uitvoering	Sizes Inlaatmaten	Temperature Temperatuur	Pressure Druk
GFO-RM	DN40~DN150	-25°C ≥ Ta ≥ +55°C	PN16 / ANSI #150

Produced in series at our facility in Nederweert, The Netherlands are in conformity with the following EU directives:

Producten geproduceerd in onze faciliteit te Nederweert, Nederland zijn conform de volgende EU richtlijnen:

Product Marking Productkenmerking

EC Directives
EG-richtlijnen

Standards Norming

NoBo Number and Name
NoBo nummer en instantie

Surveillance Procedure
Controleprocedure

MID	PED	ATEX
Mxx 0122	0038	II 2 G Exh IIC T6 Gb
2014/32/EU 2014/32/UE Previously 2004/22/EC 2004/22/CE	2014/68/EU 2014/68/UE Previously 97/23/EC 97/23/CE	2014/34/EU 2014/34/UE Previously 94/9/EC 94/9/CE
EN 12480:2002 + A1:2006 / OIML R137 EN 12480:2015	EN 12480:2002 + A1:2006 EN 12480:2015	EN 80079-36:2016 EN 80079-37:2016
Notified Body 0122 NMI Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands	Notified Body 0038 Lloyds Register Verification Ltd. 71 Fenchurch Street EC3M 4BS, United Kingdom	Notified Body 0034 Dekra Certification BV Meander 1051 6825 MI Arnhem The Netherlands
Annex B (T10620) +D (CE-216) Annex B + D	Module A2 (where applicable) module A2 (indien toepasselijk)	Technical file (TCF) submitted to and filed by Dekra,

and we herewith declare as manufacturer:

Products labelled accordingly are manufactured according to the listed Directives and Standards. They correspond to the tested type samples. The production is subject to the stated surveillance procedure. No additional ignition sources are created by assembly of the product's components.

Wij verklaren als fabrikant:

De overeenkomstig gekenmerkte producten zijn geproduceerd overeenkomstig de opgesomde richtlijnen en normen. Ze stemmen overeen met het gecontroleerde type. De productie is volgens de genoemde controleprocedure. Door de montage van de productcomponenten worden geen extra ontstekingsbronnen veroorzaakt.

Year of issue: 2017.

P.R.Segaar
MD GFO Europe BV.

T. Bremmers
Plant Manager GFO Europe BV.

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