

OIML Member State
The Netherlands

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Project number 1901778
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Issuing authority
Person responsible

NMi Certin B.V.
C. Oosterman

Applicant and
Manufacturer

GFO Flow Solutions B.V.
Magnesiumstraat 14
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The Netherlands

Identification of the
certified type

A rotary displacement gas meter
Type: GFO-RM

Characteristics

See page 2 and 3

This OIML Certificate is issued under scheme B

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 137-1 (2012) "Gas meters"

Accuracy class

1.0

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
24 May 2018



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The conformity was established by the results of tests and examinations provided in the associated reports:

- NMI-14200731-02 dated 4 June 2015 that includes 19 pages;
- NMI-SO14200462-02 dated 20 February 2014 that includes 13 pages;
- NMI-10200626-02 dated 29 May 2012 that includes 51 pages.

Characteristics of the gas meter

Table 1 gives the general characteristics of the meter type. Tables 2 and 3 specify in detail the essential characteristics and verification scale interval.

Table 1 General characteristics

Destined for the measurement of	Gas volume
Mechanical class	M2
Electromagnetic class	Not applicable (the meter has no electronics)
Ambient temperature range	-25 °C / +55 °C
Gas temperature range	-25 °C / +55 °C
Designed for humidity conditions	Not applicable (the meter has no electronics)
Orientation	Non MPV: horizontal, vertical up MPV: horizontal, vertical up and vertical down (all orientations)
Flow direction	Uni-directional (indicated with arrow)
Power supply voltage	Not applicable
Software identification	Not applicable

Table 2 Essential characteristics

Cyclic volume [dm ³]	Type	Version	Q _{max} [m ³ /h]	Q _t [m ³ /h]	Q _{min} [m ³ /h]	Nominal diameter [mm]
0,26	G10	-	16	1,25	0,5	40
	G16	-	25	1,25	0,5	40
	G25	-	40	2	0,5	40
0,69	G10	MPV	16	1,25	0,5	40 / 50
	G16	MPV	25	1,25	0,5	40 / 50
	G25	MPV	40	2	0,5	40 / 50
	G40	MPV	65	3,25	0,5	40 / 50
	G65	MPV	100	5	0,5	40 / 50
1,11	G40	MPV	65	3,25	0,8	50 / 80
	G65	MPV	100	5	0,8	50 / 80
	G100	MPV	160	8	0,8	50 / 80
2,31	G65	MPV	100	12,5	1,25	80
	G100	MPV	160	12,5	1,25	80
	G160	MPV	250	12,5	1,25	80
2,98	G100	MPV	160	8	2	80 / 100
	G160	MPV	250	12,5	2	80 / 100
	G250	MPV	400	20	2	80 / 100
3,88	G250	SYNC MPV	400	20	3,25	100 / 150
	G400	SYNC MPV	650	32,5	3,25	100 / 150
5,97	G400	SYNC MPV	650	32,5	5	150
	G650	SYNC MPV	1000	50	5	150

Remarks regarding table 2:

1. MPV indicates that the meter is optionally manufactured as a Multi Position Version.
2. SYNC indicates that the meter is always equipped with a double pair of impellers.
3. The overload flow rate (Q_t) for all rotary meters is equal to 1,2 · Q_{max}.
4. The working pressure range for all rotary displacement gas meters is atmospheric up to and including 20 bar(g).



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Table 3 Verification scale interval

Type	number of drums		control-element [m ³]
	before the comma	behind the comma	
G10 – G65	6	2	0,002
G100 – G650	7	1	0,02

Installation conditions

Non MPV meters can be installed in two flow directions, left to right or top to bottom.
MPV meters can be installed in horizontal, vertical up and vertical down position.
Regarding flow disturbance there are no specific installation requirements.