

Barranquilla, 24 de Mayo 2016

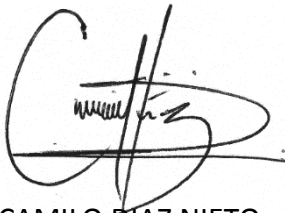
Estimados clientes,
Ciudad

Asunto: **Certificado NMi**

Después de más de 10 años la EN12480:2002 ha sido reevaluada por expertos técnicos, resultando así en una nueva directiva para medidores rotatorios. La nueva edición EN12480:2015 está más acorde a las últimas directivas del *Measurement Instrument Directive* (MID) y *Pressure equipment Directive* (PED). Los criterios de evaluación y aceptación están más enfocados en el desempeño de los medidores bajo condiciones reales.

Nos complace anunciarles que los medidores rotatorios de FMG han sido evaluados y certificados por el laboratorio NMi en cumplimiento a estas directrices.

Cordialmente,



CAMILO DÍAZ NIETO
Jefe Dpto. Comercial
NIMOCOM LTDA

Issued by	NMI Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands	
In accordance with	EN 12480:2015 "Gas meters - Rotary displacement gas meters".	
Applicant	Flow meter Group B.V. Meniststraat 5c 7091 ZZ Dinxperlo The Netherlands	
Submitted	A rotary displacement gas meter	
	Manufacturer	: Flow meter Group B.V.
	Type	: FMR FMR-Dual
Characteristics	Destined for the measurement of	: gas volume
	Accuracy class	: class 1,0
	Mechanical environment class	: M1
	Ambient and gas temperature range	: -25°C / +55°C
	Other characteristics	: See Annex 1

The undersigned declares that the described products are tested according to the above mentioned harmonized standards and meet the essential requirements, based on a non-recurrent examination. The appertaining test data is presented in the following type evaluation reports granted by NMI Certin B.V.:

- NMI-11200085-02;
- NMI-15200124-02;
- NMI-16200121-02;
- NMI-16200252-01.

Dordrecht, 18 May 2016
NMI Certin B.V.



C. Oosterman
Head Certification Board

FMR						
volume ^[1] V [dm ³]	G-value	Q _{max} [m ³ /h]	minimum Q _{min} [m ³ /h]	Q _t [m ³ /h]	maximum p _{max} [bar]	diameter D [mm]
0,25	G6	10	0,25	0,5	101	40 or 50 ^[2]
	G10	16	0,25	0,8	101	40 or 50 ^[2]
	G16	25	0,25	1,25	101	40 or 50 ^[2]
	G25	40	0,25	2	101	40 or 50 ^[2]
0,39	G10	16	0,4	0,8	101	40 or 50 ^[3]
	G16	25	0,4	1,25	101	40 or 50 ^[3]
	G25	40	0,4	2	101	40 or 50 ^[3]
	G40	65	0,4	3,2	101	40 or 50 ^[3]
0,61	G16	25	0,65	1,25	101	40 or 50
	G25	40	0,65	2	101	40 or 50
	G40	65	0,65	3,2	101	40 or 50
	G65	100	0,65	5	101	40 or 50
0,73	G16	25	0,65	1,25	101	40 or 50
	G25	40	0,65	2	101	40 or 50
	G40	65	0,65	3,2	101	40 or 50
	G65	100	0,65	5	101	40 or 50
1,16	G40	65	1	3,2	101	50 or 80
	G65	100	1	5	101	50 or 80
	G100	160	1	8	101	50 or 80
1,45	G65	100	1,6	5	101	80 or 100
	G100	160	1,6	8	101	80 or 100
	G160	250	1,6	12,5	101	80 or 100
1,81	G65	100	1,6	5	101	80 or 100
	G100	160	1,6	8	101	80 or 100
	G160	250	1,6	12,5	101	80 or 100
1,98	G100	160	1,6	8	101	80 or 100
	G160	250	1,6	12,5	101	80 or 100
3,17	G160	250	2,5	12,5	101	80 or 100
	G250	400	2,5	20	101	80 or 100
5,15	G250	400	4	20	101	100 or 150
	G400	650	4	32	101	100 or 150

- [1] On the name plate of the rotary meter the cyclic volume can be given in two possible formats:
- with two digits behind the comma as stated in the tables above, or
 - with a number containing 6 significant digits. In this case a HF pulse value can be accurately derived from the spinning rotors with an optical sensor.
- [2] These meters are equipped with a threaded connection.
- [3] These meters can be equipped with a flange or threaded connection.

<i>FMR-Dual</i>						
volume ^[4] V [dm ³]	G-value	Q _{max} [m ³ /h]	minimum Q _{min} [m ³ /h]	Q _t [m ³ /h]	maximum p _{max} [bar]	diameter D [mm]
2,41	160	250	2,5	12,5	101	80 or 100
	250	400	2,5	20	101	80 or 100
3,96	250	400	4	20	101	100 or 150
	400	650	4	32	101	100 or 150
6,34	400	650	6,5	32	101	150 or 200
	650	1000	6,5	50	101	150 or 200

[4] See remark 1 under the previous table.