



[I-21/67/2024-W&M Section]  
GOVERNMENT OF INDIA/भारत सरकार  
MINISTRY OF CONSUMER AFFAIRS, FOOD AND PUBLIC DISTRIBUTION  
उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय  
DEPARTMENT OF CONSUMER AFFAIRS/ उपभोक्ता मामले विभाग  
LEGAL METROLOGY DIVISION/ विधिक मापविज्ञान प्रभाग

Krishi Bhawan/कृषि भवन, नई दिल्ली  
Dated/दिनांक:- 18.03.2024

Certificate of Approval of Model/ मॉडल का अनुमोदन प्रमाणपत्र

Whereas the Central Government, after considering the report submitted to it by the prescribed authority along with the OIML certificate no. **R137/2012-B-NL1-19.11** issued by NMI Certain B.V. Netherland, is satisfied that the model described in the said report (see the figure given below), is in conformity with the provisions of the Legal Metrology Act 2009(1 of 2010) and the Legal Metrology (Approval of Models) Rules, 2011 and the said model is likely to maintain its accuracy over periods of sustained use and to render accurate service under varied conditions;

Now, therefore, in exercise of the powers conferred by section 22 of the Legal Metrology Act, 2009 (1 of 2010) read with sub-rule (6) of rule 8 and sub-rule (4) of rule 11 of the Legal Metrology (Approval of Models) Rules, 2011 and as per OIML R **137-1 (2012)** "Gas meters", the Central Government hereby issues the certificate of approval of the model of Rotary displacement Gas Meter, type "IM-RM" of accuracy class-1.0 (hereinafter referred to as the said model), manufactured by M/s Pietro Fiorentini S.p.A., Via E. Fermi 8/10, 36057- Arcugnano (VI), Italy and imported & marketed in India without any alteration before or after sale by M/s Pietro Fiorentini DB India Pvt Ltd., Gat No. 43, Navlakh Umbre, Talegaon MIDC, Taluka-Maval, District- Pune, Maharashtra- 410507 and which is assigned the approval mark IND/09/24/112 (the picture of the model is given below as Figure 1);

**Characteristics of the measuring instrument**

In Table 1 the general characteristics of the measuring instrument are presented.

Table 2 gives an overview of the general characteristics of the family of instruments.

**Table 1 General characteristics**

Destined for the measurement of	Gas volume
Environmental classes	M1 / E1
Accuracy class	1.0
Maximum pressure	20 bar
Ambient temperature range	-25 °C / +55 °C
Gas temperature range	-25 °C / +55 °C
Designed for	condensing humidity
Orientation	Horizontal / Vertical up / Vertical down (all orientations)
Flow direction	Uni-directional (indicated with arrow)

Figure 1

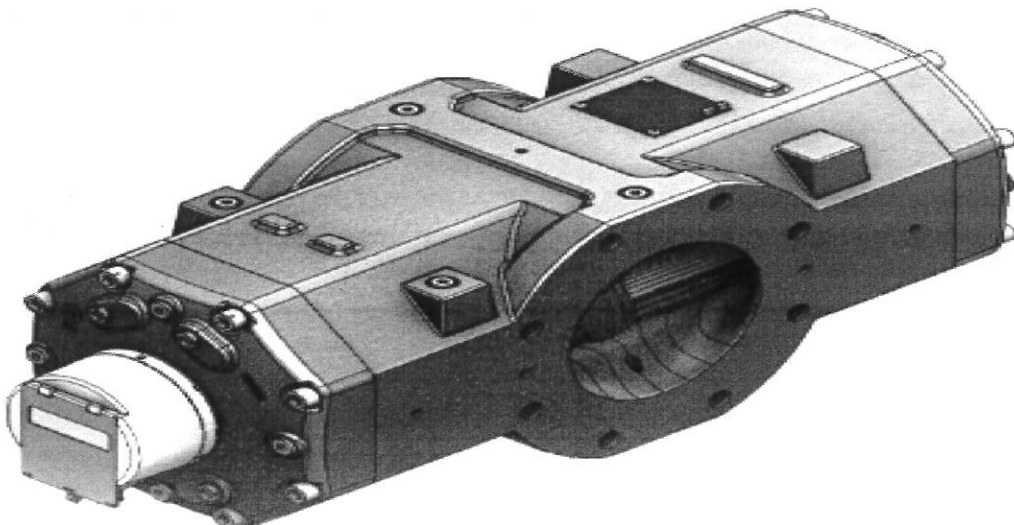




Table 2 General characteristics of the family of instruments

G-value	Q <sub>max</sub> [m³/h]	minimum Q <sub>min</sub> [m³/h]	Q <sub>t</sub> [m³/h]	volume V [dm³]	diameter [mm]	accuracy class	maximum P <sub>max</sub> [bar(g)]
G10	16	0,3	0,8	0,18	40 <sup>[1]</sup>	1,0	19
G16	25	0,3	1,25	0,18	40 <sup>[1]</sup>	1,0	19
G25	40	0,5	2	0,26	40 <sup>[1]</sup>	1,0	19
G40	65	1,8	3,25	0,26	40 <sup>[1]</sup>	1,0	19
G16	25	0,5	1,25	0,69	40 or 50	1,0	19
G25	40	0,5	2	0,69	40 or 50	1,0	19
G40	65	0,5	3,25	0,69	40 or 50	1,0	19
G65	100	0,5	5	0,69	40 or 50	1,0	19
G65	100	0,5	5	0,69	40 or 50	1,0 <sup>[2]</sup>	20
G40	65	0,8	3,25	1,11	50 or 80	1,0	19
G65	100	0,8	5	1,11	50 or 80	1,0	19
G100	160	0,8	8	1,11	50 or 80	1,0	19
G100	160	0,8	8	1,11	50 or 80	1,0 <sup>[2]</sup>	20
G160	250	1,6	12,5	1,42	80	1,0	19
G160	250	1,6	12,5	1,42	80	1,0 <sup>[2]</sup>	20
G65	100	1,25	5	1,73	80	1,0	19
G100	160	1,25	8	1,73	80	1,0	19
G160	250	1,25	12,5	1,73	80	1,0	19
G160	250	1,25	12,5	1,73	80	1,0 <sup>[2]</sup>	20
G65	100	1,25	5	2,31	80 or 100	1,0	20
G100	160	1,25	8	2,31	80 or 100	1,0	20
G160	250	1,25	12,5	2,31	80 or 100	1,0 <sup>[2]</sup>	20
G100	160	2	8	2,98	80 or 100	1,0	20
G160	250	2	12,5	2,98	80 or 100	1,0	20
G250	400	2	20	2,98	80 or 100	1,0 <sup>[2]</sup>	20
G250	400	3,25	20	3,88	100 or 150	1,0	20
G400	650	3,25	32,5	3,88	100 or 150	1,0 <sup>[2]</sup>	20
G400	650	5	32,5	5,97	150	1,0	20
G650	1000	5	50	5,97	150	1,0 <sup>[2]</sup>	20

- [1] The meters are equipped with 1 ½ inch thread connections.
- [2] The meters can also be delivered as class 1,5 with Q<sub>max</sub>/Q<sub>min</sub> ≥ 150.

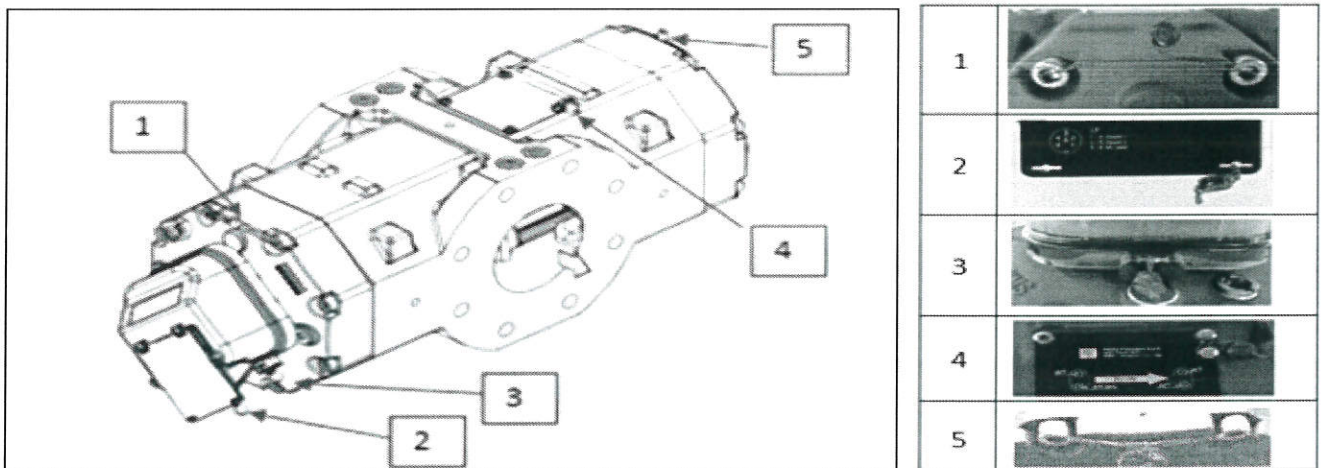


Figure- 2

Sealing is done by using mechanical seal. Seals may be plastic tablets (processed through a pincer) or snap seals. A typical schematic diagram of sealing provision to prevent the fraudulent practices of the model is given above as Figure 2.

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