



[I-21/9/2024-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:-19.01.2024

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-NL1-16.06** 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, the Central Government hereby issues the certificate of approval of the model of Diaphragm gas meter, type "RS / 2,4 (steel housing)" Trademark: Pietro Fiorentini, Samgas of Accuracy class-1.5 (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/09/24/27(the picture of the model is given below as Figure 1);

Characteristics of the measuring instrument

Table 1 General characteristics of the measuring instrument are presented

Destined for the measurement of	Gas volume
Environmental classes	M1 / E2
Accuracy class	1.5
Maximum pressure	0,5 bar
Ambient temperature range	-25 - +55 °C
Gas temperature range	-25 - +55 °C
Designed for	Condensing humidity
Orientation	Horizontal
Power supply voltage	Internal battery

Figure 1

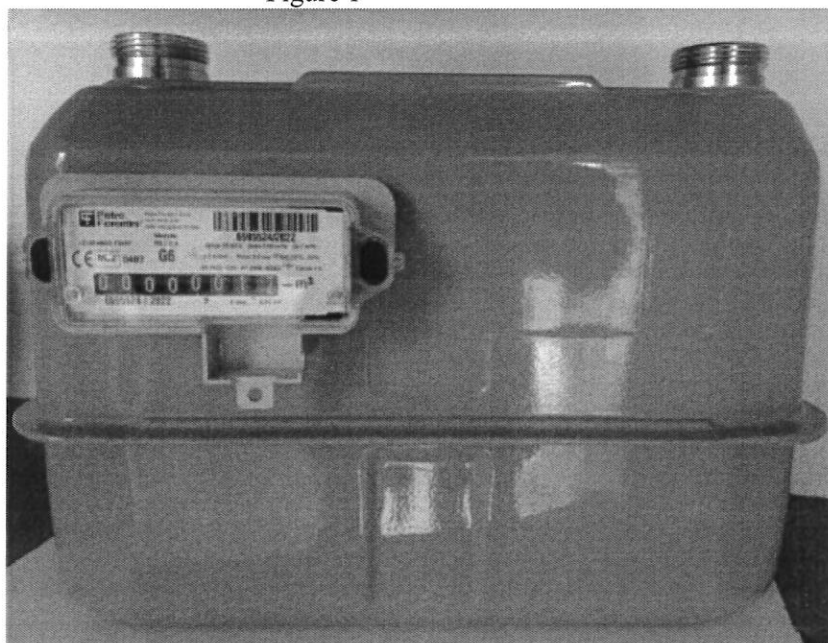




Table 2 General characteristics of the family of instruments

Meter size	G1,6	G2,5	G4	G6
Minimum flow rate Q_{\min} (m ³ /h)	0,016	0,025	0,04	0,06
Transitional flow rate Q_t (m ³ /h)	0,25	0,4	0,6	1
Maximum flow rate Q_{\max} (m ³ /h)	2,5	4	6	10
Overload flow rate Q_r (m ³ /h)	3	4,8	7,2	12
Indicating range (m ³)	99999	99999	99999	99999
Verification scale interval (m ^s)	0,0002	0,0002	0,0002	0,0002

Sealing provision

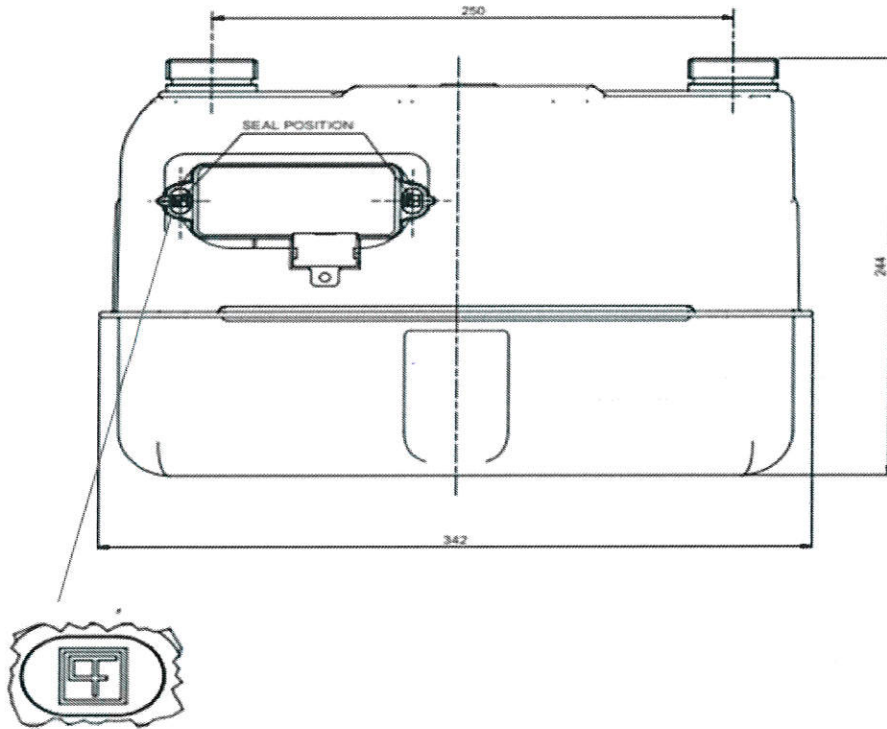


Figure- 2

Bending, bonding, and belting were chosen for connections, the assembling of Top and bottom case with a metal sealing. Thus, mechanical sealing is available at all the joints. The index is fitted to the meter using screws and Metrological plastic seals with a unique company logo on its surface, represented it manufactured by “Pietro Fiorentini”. If tried to tamper with index cover, it will leave an indelible trace on the seals and can be easily noticed. The sealing provision is available using lead seals and wires to restrict unauthorized access of Meter. 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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