ZAVOD FLOMETR CJSC (WCN 459654)
Cert. No. 20-GD1938492-PDA
Issuance date: 07-Jan-2020
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Product Design Assessment (PDA) Certification
Attachment for Listing

Ratings:

Table 1 - Measurement range and accuracy of DFM Marine flow meters

Model (by size)	Starting flow rate*, m^3/h	Minimum flow rate, m^3/h	Maximum flow rate, m^3/h	Relative accuracy error, %, not more than***
DFM Marine 1000	0,01	0,02	1	±0.5**
DFM Marine 2000	0,02	0,04	2	
DFM Marine 4000	0,04	0,08	4	

* Minimum threshold flow rate value when the meter starts operating. The value is indicated for reference only as accuracy is not standardized for operation on the starting flow rate.

** In differential/summarization measurement mode, inaccuracy is not higher than ±1.0 % (depending on the proportion of fuel consumption in chamber of each flow meter used).

*** If fuel consumption in the range from Q_{min} to $3 \cdot Q_{min}$, the allowed inaccuracy is not more than ±1.0 %, for differential/summarization fuel consumption modes – not more than ±2.0 %.Above this flow rate, the system operates in optimal conditions. Below this limit, a Warning is triggered.

Table 2 — DFM Marine main specifications

Parameter, measurement units	Value		
	DFM Marine 1000	DFM Marine 2000	DFM Marine 4000
Maximum pressure for flange connection, bar	25		
Maximum pressure for thread connection, bar	16		
Type of male connection thread (BSP), inch	¾	1	1 ¼
Distance of flange holes, mm	65	75	85
Supply voltage range, V	10…45		
Current consumption at 12 V/24 V, mA, not more than	50/25		
Ambient operation temperature range, ℃	-20…+80		
Vibration resistance	max. acceleration to 100 m/s2 in the frequency range from 5 to 250 Hz		
Resistance to aggressive environments	oil and petrol resistance		
Electromagnetic compatibility	see annex B (Technical Description)		
Ingress protection rating	IP 54		
Overall dimensions	see annex A (Technical Description)		
Weight			