



## LLOYD’S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT

Issued by: Rotterdam TECHNICAL SUPPORT OFFICE

Issued to: VAF Instruments B.V.

For: LoFlow and MidFlow, Types J5015PT2, J5023PT2, J5015E, J5023E, J5025PT2, J5040PT2, J5050PT2, J5025E, J5040E, J5050E

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd’s Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

### APPROVAL DOCUMENTATION

Document No.	Rev., date	Title
0801-3302	A, 2013-09-06	J5015E_E-counter dimensional drawing
0801-3304	A, 2013-09-06	J5023E_E-counter dimensional drawing
0801-3306	A, 2013-07-19	J5023E_E-counter dimensional drawing
0801-3308	A, 2013-07-19	J5040E_E-counter dimensional drawing
0801-3310	A, 2013-07-19	J5050E_E-counter dimensional drawing
0801-3227	B, 2014-07-03	J5015PT2 dimensional drawing
0801-3228	B, 2013-10-12	J5023PT2 dimensional drawing
0801-3229	--, 2014-03-07	J5050PT2 dimensional drawing with F1050 filter
0801-3202	E, 2011-06-21	J5025PT2 / J5040PT2 dimensional drawing (hall-switch)
0900-0104	J, 2015-04-02	Cast specifications
0900-0229	C, 2015-04-21	Cast specifications

### TEST REPORTS

13C00863RPT01	Dare!! – EMC Test Report E-counter.....dated 2013-08-06
16C00664RPT01	Dare!! – EMC Test Report Radiated Immunity E-counter, s.n. 615682 ..dated 2016-06-15
17C01021RPT01	Dare!! – EMC Test Report E-counter, dry heat & cold test.....dated 2017-10-02
M17.001-P17.001	Siebert – Vibration Test report .....dated 2017-08-31
20230274RPT01	Kiwa EMC Partial Test report .....dated 2023-06-26
	VAF – Functional test report, witnessed by LR .....dated 2017-08-14



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Reference: RTS-TA-  
PRJ11100406263/RV

## **SUPPORTING DOCUMENTS**

TIB-144-GB-0517	MidFlow, 144 Technical Manual
TIB-145-GB-0517	ProFlow, 145 Technical Manual
PB-135-GB-0414	LoFlow MidFlow vane meters, model PT, 135 Product Bulletin
PB-142-GB-0414	ProFlow vane meters, 142 Product Bulletin

## **PRODUCT DETAILS**

Types	:	LOFLOW® J5015PT2 / J5023PT2 / J5015E / J5023E MIDFLOW® J5025PT2 / J5040PT2 / J5050PT2 / J5025E / J5040E / J5050E
Materials:	:	Ductile iron as per VAF drawings, vanes carbon, O-rings viton A
Diameters	:	DN15 to DN50
Pressure, maximum:	:	25 Bar
Temperature liquid:	:	E-type -10 <sup>0</sup> to +125 <sup>0</sup> Celsius, PT2-type -10 <sup>0</sup> to +150 <sup>0</sup> Celsius
Flow, continuous	:	37.5 – 375 litres/min
Pulse output	:	160 – 5 pulses/ltr, Hall switch
E-type readout	:	7 digits, 0.001 ltr
Accuracy	:	< 0.3 %
Temperature ambient:	:	60 <sup>0</sup> Celsius
Enclosure:	:	IP65

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