



EU Type Examination Certificate CML 17ATEX9003U Issue 2

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component FN-1024, FN-1025 & FN-1029 Liquid Fuel Dispenser Nozzles
- 3 Manufacturer TATSUNO CORPORATION
- 4 Address 1-1, Kasama 4-Chome Sakae-Ku Yokohama 247-8570 Japan
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 13012:2012

10 The equipment shall be marked with the following:

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EN 13012 Type I

H M Amos MIET Certificate Manager





11 Description

The FN-1024, FN-1025 and FN-1029 Liquid Fuel Dispensing Nozzles are of the automatic delivery type. The FN-1025 Liquid Fuel Dispensing Nozzles additionally provide vapour recovery. All models are of Type I fuel dispensing nozzles as detailed in EN 13012:2012 Table 1 (Types of Construction).

The nozzles are intended to fit the delivery end of a fuel dispensing hose which is, in turn, attached to a liquid fuel dispenser. The nozzle body is manufactured from cast aluminium and has a separate spout and guard assemblies attached to the main body.

Fuel enters at the rear of the body and the flow is governed by the internal components. The valve assembly consists of a main regulating valve which is operated by the trigger, an angle sensor arrangement and an over-fill feedback valve activated via a capillary extending to the nozzle delivery end. All identification is marked directly onto the outside of the aluminium body. The nozzles may be supplied with a plastic cowling fitted over the main body.

Variation 1

This variation incorporated the following changes:

- i The transfer of certification from CML UK to CML B.V.
- ii The introduction of the FN-1029 Nozzle variants.

Variation 2

This variation incorporated the following changes:

i The introduction of an optional Cover Talker'.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	24 Mar 2017	R1802A/00	Release of the prime certificate
1	21 Jan 2019	R11944A/00	Issue of variation 1
2	20 Mar 2020	R13026A/00	Issue of variation 2

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii Routine tests on production units shall be conducted in accordance with EN 13012:2012 Clause 6 Table 5.





14 Components: Schedule of Limitations

The following conditions relate to safe installation and/or use of the equipment.

14.1 The service temperature range -20°C to +50°C shall not be exceeded.



Certificate Annex

Certificate Number	CML 17ATEX9003U
Equipment	FN-1024, FN-1025 & FN-1029 Liquid Fuel Dispenser Nozzles
Manufacturer	TATSUNO CORPORATION

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
FN-1024C009	1 of 1	03	24 Mar 2017	Marking Instruction
FN-1024C018	1 of 1	-	24 Mar 2017	FN-1024 Automatic Nozzle
FN-1025C006	1 of 1	03	24 Mar 2017	Marking Instruction
FN-1025C018	1 of 1	01	24 Mar 2017	FN-1025 Vapour Recovery Nozzle

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
FN-1029C001	1 of 1	-	21 Jan 2019	FN-1029 Automatic Nozzle
FN-1029C002	1 of 1	-	21 Jan 2019	Marking Instruction

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
FN-1024C018	1 of 1	01	20/032020	FN-1024 Automatic Nozzle
FN-1025C018	1 of 1	02	20/032020	FN-1025 Vapour Recovery Nozzle
FN-1029C001	1 of 1	01	20/032020	FN-1029 Automatic Nozzle





CML B.V. Hoogoorddreef 15 Amsterdam, 1101 BA The Netherlands Newport Business Park New Port Road Ellesmere Port CH65 4LZ UK

Evaluation Report

Certificate	CML 17ATEX9003U
Title	FN-1024, FN-1025 and FN-1029 Liquid Fuel Dispensing Nozzles
Applicant	Tatsuno Corporation
Report	R13026A/00
Date	March 2020

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1 Introduction

1.1 Scope of this report and modifications assessed

This report assesses the following modifications to the FN-1024, FN-1025 and FN-1029 Liquid Fuel Dispensing Nozzles.

i. The introduction of an optional Cover 'Talker'.

1.2 Product Description

The product description is unchanged.

1.3 Marking

The marking is unchanged but the main information is reproduced below for reference.

Item	Detail
Manufacturer's name or registered trademark	Tatsuno
Type identification	FN-1024, FN-1025 & FN-1029
Serial No incorporating the year of manufacture	хххх/уу
Certificate number	CML 17ATEX9003U
Notified Body No. responsible for the production phase	nnnn
ATEX marking	κ μ1 G
Code	EN 13012
The 'Type' according to EN 13012	Туре І

There is no change to the nameplate.

1.3.1 Applicant's Name & Address

Tatsuno Corporation

1-1, Kasama 4-Chome, Sakae-Ku, Yokohama, 247-8570, Japan

1.3.2 Manufacturer's Name & Address

As applicant.

1.3.3 Trademark

There is no change to the Trademark

1.3.4 Rating

The product rating is unchanged.

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Version: 10.0 Approval: Approved

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1.4 Assessment Standards

The standards are unchanged but are reproduced below for reference.

ATEX
EN 13102:2012
EN 80079-36:2016

1.5 Documentation

1.5.1 Technical Documents

The modifications assessed in this report are detailed in the following drawings. It was verified that these documents give a full and accurate description of those aspects of the equipment relating to compliance with the listed relevant certification standards.

Drawing No	Sheets	Rev	Approved date	Title
FN-1024C018	1 of 1	01	20 Mar 2020	FN-1024 Automatic Nozzle
FN-1025C018	1 of 1	02	20 Mar 2020	FN-1025 Vapour Recovery Nozzle
FN-1029C001	1 of 1	01	20 Mar 2020	FN-1029 Automatic Nozzle

1.6 Attachments

There are no additional attachments

1.7 Conditions of manufacture

There are no additional conditions of manufacture.

1.8 Schedule of Limitations

There are no additional conditions of certification.

1.9 Compliance with Essential Requirements of Directive 2014/34/EU

There has been no change to the original exceptions of the Essential Health & Safety Requirements of Directive 2014/34/EU.

1.10 Conclusion

The modifications assessed in this report allow the equipment to maintain compliance with the listed standards, the certification code being unchanged. In addition, the equipment continues to meet the requirements of European Directive 2014/34/EU for the Category indicated in section 1.3

1.11 Signatories

Report number: R13026A/00

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Compiled by + signature:

A. Smith Senior Certification Engineer



H. M. Amos **Certification Manager**

Approved by + signature:

Reviewed by + signature:

H. M. Amos **Certification Manager**



Report number:

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2 Certification Overview

The modifications are not considered to have any effect on the continuing compliance with the listed standards

3 Modifications

Relevant clauses affected by the modifications

EN 13012			
Clause	Requirement – Test	Result – Remark	Verdict
5	Danger of ignition due to electrostatic discharge	See Section 3.1.1	Pass

3.1 Assessment of modifications

3.1.1 The introduction of an optional 'Cover Talker'

The 'Talker' is a clear plastic cover to allow the nozzle user to view advertising material. The 'Talker' dimensions are below the limits detailed in EN IEC 60079-0 and EN 80079-36 (*the latter standard superseding and replacing EN 13463-1*) for risk of electrostatic discharge. The 'Talker' is also considered to not have any effect on the functionality of the nozzles.

4 Samples received and tests conducted

No samples were received and no tests were conducted

Report number:

R13026A/00

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Version: 10.0 Approval: Approved



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	SPECIFICATION	
O.D. SPO	DUT	Φ21, Φ25
MAX. WORKIN	G VOLUME(L/min)	45
MAX. PRESSU	RE USED(MPa)	0.49

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37	Cover talker	Plastic (PA6/3)	
36	Cover base	Plastic (PA6)	
35	Oil guard	Plastic/Rubber(PVC/NBR)	
34	Check valve 2	Plastic (POM)	
33	Cover 4	Aluminium (ADC12) / JIS H 5302	
32	Strainer	Plastic (POM)	_
31	Lever 2	Stainless (SUS304) / JIS G 4318	
30	Lever A&B	Plastic (PPS)	
29	Diaphragm 2	Rubber (NBR)	
28	Diaphragm 3	Rubber (NBR)	
27	Piston	Plastic (POM)	
26	Diaphragm hold	Plastic (POM)	
25	Cover 3	Aluminium (ADC12) / JIS H 5302	В
24	Guard	Plastic (PA)	
23	Sensor	Zinc (ZDC1) / JIS H 5301	
22	Stainless tip	Stainless (SUS304) / JIS G 4318	
21	Vacuum tube	Plastic (PA)	
20	Nozzle spout	Aluminium (A6061) / JIS H 4040	
19	Anchor spring	Steel (SWPB) / JIS G 3522	
18	Splash guard	Alcryn Rubber or PVC	
17	Cover scarf	Plastic (PVC)	
16	Safety ball	Stainless (SUS304) / JIS G 4318	
15	Pipe joint	Plastic (POM)	
14	Check ball	Stainless (SUS304) / JIS G 4318	
13	Check valve	Plastic/Rubber(PPS/FKM)	
12	Cap 2	Plastic (POM)	l c
11	Shaft 2	Stainless (SUS303) / JIS G 4318	
10	Block clutch	Stainless (SUS303) / JIS G 4318	
9	Roller	Stainless (SUS440C) / JIS G 4318	
8	Cover 2	Plastic (PA)	
7	Packing	Rubber (NBR)	
6	Shaft 1	Stainless (SUS440C)/JIS G 4318	
5	Main valve	Plastic/Rubber (PPS/FKM)	
4	Pilot valve	Copper (C3604)/JIS H 3250	
3	Body 2	Aluminium (A6061)/JIS H 4040	
2	Cover grip	Plastic/Conductivity (PP)	
1	Body 1	Aluminium (ADC12)/JIS H 5302	
ITEM	DESCRIPTION	MATERIAL / STANDARD	
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AUTOMATIC NOZZLE



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	SPECIFICATION	1
O.D. SPC	DUT	Φ21
MAX. WORKING VOLUME(L/min)		45
MAX. PRESSU	RE USED(MPa)	0.49

Plastic (PA6/3)

Steel (S45C) / JIS G 4051

Plastic (PA6)

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44 Cover talker

43 Cover base

42 Ring

	41	Stainless boot	Stainless (SCS13) / JIS G 5121	
	40	Check valve 2	Plastic (POM)	
	39	Cover 4	Aluminium (ADC12) / JIS H 5302	
	38	Vapour valve AL	Plastic (POM)	
	37	Strainer	Plastic (POM)	
	36	Lever latch	Stainless (SUS304) / JIS G 4318	
	35	Lever A&B	Plastic (PPS)	
	34	Diaphragm 2	Rubber (NBR)	
	33	Diaphragm 3	Rubber (NBR)	
	32	Piston	Plastic (POM)	
	31	Diaphragm hold 2	Plastic (POM)	Б
	30	Cover 3	Aluminium (ADC12) / JIS H 5302	Р
	29	Guard	Plastic (PA)	
	28	Sensor	Zinc (ZDC1) / JIS H 5301	
	27	Stainless tip	Stainless (SUS304) / JIS G 4318	
	26	Vacuum tube	Plastic (PA)	
	25	Nozzle spout	Aluminium (A6061) / JIS H 4040	
	24	Anchor spring	Steel (SWPB) / JIS G 3522	
	23	Cover boot	Rubber (FKM)	
	22	Body 4	Aluminium (ADC12)/JIS H 5302	
	21	Safety ball	Stainless (SUS304) / JIS G 4318	
	20	Cover scarf	Plastic (PVC)	
	19	Pipe joint	Plastic (POM)	
	18	Check ball	Stainless (SUS304) / JIS G 4318	
	17	Check valve	Plastic/Rubber (PPS/FKM)	
	16	Cap 2	Plastic (POM)	
	15	Shaft 2	Stainless (SUS303) / JIS G 4318	
	14	Block clutch	Stainless (SUS303) / JIS G 4318	С
	13	Roller	Stainless (SUS440C) / JIS G 4318	
	12	Vapour valve	Plastic/Rubber (POM/FKM)	
	11	Vapour body	Plastic (POM)	
	10	Cover 2	Plastic (POM)	
	9	Packing	Rubber (NBR)	
	8	Shaft 1	Stainless (SUS440C)/JIS G 4318	
	7	Main valve	Plastic/Rubber (PPS/FKM)	
	6	Pilot valve	Copper (C3604)/JIS H 3250	
	5	Body 2	Aluminium (A6061)/JIS H 4040	
	4	Cover grip	Plastic/Conductivity (PP)	
	3	Body 3	Plastic (POM)	
	2	Body 1	Aluminium (ADC12)/JIS H 5302	
	1	Adapter	Aluminium (A6061)/JIS H 4040	
	ITEM	DESCRIPTION	MATERIAL / STANDARD	
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VAPOUR RECOVERY NOZZLE F N - 1 0 2 5 C 0 1 8

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SPECIFICATI	ON	
	Φ25	
MAX. WORKING	80	
USED (MPa)	0.49	

36	Cover talker	Plastic (PA6/3)			
35	Cover base	Plastic (PA6)			
34	Oil guard	Plastic/Rubber(P)	/C/NBR)		
33	Cover 4	Aluminium (ADC12	2) / JIS H 53	02	
32	Strainer	Plastic (POM)			
31	Lever 2	Stainless (SUS304	4) / JIS G 43	18	
30	Lever A&B	Plastic (PPS)			
29	Diaphragm 2	Rubber (NBR)			
28	Diaphragm 3	Rubber (NBR)			
27	Piston	Plastic (POM)			в
26	Diaphragm hold	Plastic (POM)			
25	Cover 3	Aluminium (ADC12	2) / JIS H 53	02	
24	Guard	Plastic (PA)			
23	Sensor	Zinc (ZDC1) / JIS	H 5301		
22	Stainless tip	Stainless (SUS304	4) / JIS G 43	18	
21	Vacuum tube	Plastic (PA)			
20	Nozzle spout	Aluminium (A6061) / JIS H 404	40	
19	Anchor spring	Steel (SWPB) / JI	S G 3522		
18	Splash guard	Alcryn Rubber or I	PVC		
17	Cover scarf	Plastic (PVC)			
16	Safety ball	Stainless (SUS304	4) / JIS G 43	18	
15	Pipe joint	Plastic (POM)			
14	Check ball	Stainless (SUS304) / JIS G 4318			
13	Check valve	Plastic/Rubber(PPS/FKM)			
12	Cap 2	Plastic (POM)			С
11	Shaft 2 Stainless (SUS303) / JIS G 4318				
10	0 Block clutch Stainless (SUS303) / JIS G 4318				
9	Roller Stainless (SUS440C) / JIS G 4318				
8	Cover 2 Plastic (PA)				
7	Packing	Rubber (NBR)			
6	Shaft 1	Stainless (SUS440C) / JIS G 4318			
5	Body 2	Aluminium (A6061) / JIS H 4040			
4	Main valve Plastic/Rubber(PPS/FKM)				
3	Pilot valve	Copper (C3604) /	JIS H 3250		
2	Cover grip	Plastic/Conductiv	ity(PP)		
1	Body 1	Aluminium (ADC12) / JIS H 5302			
ITEM	DESCRIPTION	MATERIAL/STAN	DARD		
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