



(1) **Supplement No. 1 to
EC-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 03 ATEX 0025

(4) Equipment or protective system: **LPG dispensers,
type series SHARK BMP 5xx.S/LPG, SHARK BMP 2xxx.S/LPG**

(5) Manufacturer: **TATSUNO – BENČ EUROPE, a.s.**

(6) Address: **Pražská 68, P.O.Box 49, 678 01 Blansko, Czech republic**

(7) This supplement of certificate is valid for: - modification of certified product

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains another requirement, which manufacturer shall fulfil before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfil by satisfying of following standards:

prEN 14678-1:2003; ISO 11925-3:1997 (E), cl. 9.7

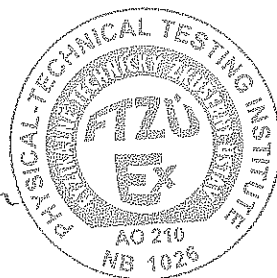
(11) Marking of equipment designed according to this supplement shall contain symbols:

 **II 2G IIA T3**

(12) This type examination certificate is valid till: **31.03.2008**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 25 of August 2005

Number of pages: 5
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Schedule

(14)

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(15) Description of Equipment or Protective System:

The fuel dispensers type series SHARK BMP 5xx.S/LPG, SHARK BMP 2xxx.S/LPG and derived modifications are intended for dispensing of liquid propane-butane (LPG) in fuel tank of cars.

The fuel dispenser construction consists of these basic modules:

- dispenser frame;
- LPG aggregate;
- electronic counter.

Design modification for dispenser consists of replacement of metal covers with laminate covers.

Classification of hazardous area in dispenser and outside of dispenser is defined in accordance with prEN 14678-1:2003 and EN 60079-10:2003.

Inner space of hydraulic part housing

- zone 1

Outside space of hydraulic part housing and hose module up to distance of 50 mm upward top and up to distance 200 mm from top of dispenser in all direction as far as to ground level

- zone 2

Electronics housing is separated by vertical barrier type 1, the housing provides degree of protection IP 54 according to EN 60 529

- inner space and outside area of this housing is non-hazardous area.

(16) Report No. : 03/0025 – supplement No. 1

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

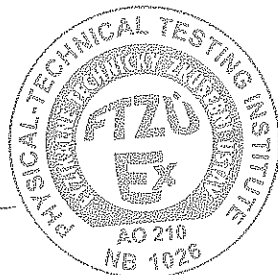
18.1 According to Directive 94/9/EC clause 1.0.6 of Annex 2 and Instruction for installation and use the dispenser No. IN 006-CZ can't be installed in hazardous area.

18.2 Essential health and safety requirement of Directive 94/9/EC, are covered in standard mentioned in (9).

Responsible person:


Dipl. Ing. Sindler Jaroslav

Head of certification body



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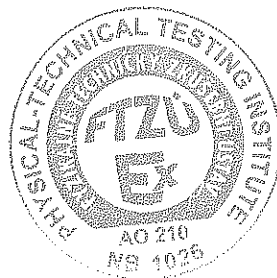
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(14) **Supplement No. 1 to
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(19) **LIST OF DOCUMENTATION**

- ◆ List of used parts and apparatus - Ex_TABN 200G on 02/2005
- ◆ List of used parts and apparatus - document No. EX_TABN 500G on 02/2005
- ◆ Door - right - drawing No. 1-420-2017 on 12/2004
- ◆ Door - left - drawing No. 2-420-2 017 on 12/2004
- ◆ Laminate mask - drawing No. 320-1769 on 09/2004
- ◆ Laminate mask - miniportal - drawing No. 320-1809 on 11/2004
- ◆ Product cover - drawing No. 420-2011 on 09/2004
- ◆ Upper paddle - drawing No. 420-2012 on 09/2004
- ◆ Upper paddle – for number - drawing No. 2-420-2012 on 04/2005
- ◆ Lower paddle - drawing No. 420-2013 on 09/2004
- ◆ Lower paddle - drawing No. 420-2014 on 09/2004
- ◆ Laminate mask - drawing No. 320-1770 z 09/2004
- ◆ Foil with product description - drawing No. 420-2140 on 08/2005
- ◆ Safety circuits schema SHARK BMP5xx.S/LPG
- ◆ Safety circuits schema SHARK BMP2xxx.S/LPG





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(20) **DISPENSER CODE MARKING**

New types of dispensers series BMP 5xx.S/LPG with laminate covers

Public and private station

- | | |
|-------------------|---|
| a) BMP 511.SL/LPG | 1 medium, 1 dispensing place, left orientation |
| b) BMP 511.SR/LPG | 1 medium, 1 dispensing place, right orientation |
| c) BMP 511.SD/LPG | 1 medium, 1 dispensing place, double side |
| d) BMP 522.SD/LPG | 2 media, 2 dispensing places, double side |

New types of dispenser series BMP 2xxx.SS/LPG with laminate covers

Dispenser high 1600 mm

- | | |
|--------------------|------------------------------|
| a) BMP2011.SSx/LPG | 1 medium, 1 dispensing place |
| b) BMP2022.SSx/LPG | 2 media, 2 dispensing places |

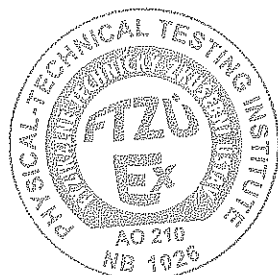
Dispenser high 1900 mm

- | | |
|--------------------|------------------------------|
| a) BMP2011.SMx/LPG | 1 medium, 1 dispensing place |
| b) BMP2022.SMx/LPG | 2 media, 2 dispensing places |

Symbol "x" specifies dispenser design relating to its orientation at fuel station. Symbol "x" can be: R (single side dispenser – right orientation), L (single side dispenser – left orientation).

(21) **ELECTRIC PARAMETERS:**

- | | | |
|-----------------|----------------------|---------------------|
| Supply voltage: | - electronics | 230 V ± 10 %; 50 Hz |
| | - lighting | 230 V ± 10 %; 50 Hz |
| | - el. magnetic valve | 230 V ± 10 %; 50 Hz |





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(22) TECHNICAL PARAMETERS:

| | | |
|-----------------------------|------------------|---|
| Maximum filling rate | Q_{\max} | $50 \text{ dm}^3 \cdot \text{min}^{-1}$ |
| Minimum flow rate | Q_{\min} | $5 \text{ dm}^3 \cdot \text{min}^{-1}$ |
| Accuracy | | $\pm 1 \%$ |
| Service pressure | p | 1,6 MPa |
| Maximum service pressure | p_{\max} | 1,8 MPa |
| Rated pressure | p_N | 2,5 MPa |
| Test pressure | p_Z | 4,0 MPa |
| Nominal inner diameter | - input pipeline | DN 19 (liquid phase LPG) |
| | - back pipeline | DN 16 (gas phase LPG) |
| Service ambient temperature | | - 20 °C ... + 50 °C |
| Service medium temperature | | - 20 °C ... + 50 °C |

