



Physical Technical Testing Institute
Ostrava-Radvanice



(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 0022

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

(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:

EN 13617-1:2004, čl. 5.3.6; ISO 11925-3:1997 (E), čl. 9.7

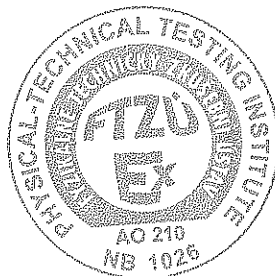
(11) Marking of equipment designed according to this supplement shall contain symbols:

 **II 2G IIA T3**

(12) This type examination certificate is valid till: **31.05.2008**

Responsible person:


Dipl. Ing. Sindler Jarosláv
Head of certification body



Date of issue: 25 of August 2005

Number of pages: 5

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(13) **Schedule**

(14) **Supplement No. 1 to
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(15) Description of Equipment or Protective System:

The fuel dispensers type series SHARK BMP 5xx.S; SHARK 2xxx.S and derived modifications are intended for dispensing of liquid oil products – gasoline and diesel oil (flammable liquids of I. to IV. fire hazard classes) with accuracy $\pm 0,5\%$ for filling rate from $2 \text{ dm}^3 \cdot \text{min}^{-1}$ to $130 \text{ dm}^3 \cdot \text{min}^{-1}$.

The fuel dispenser construction consists of these basic modules:

- dispenser frame;
- pump and measuring hydraulic module;
- hose wind up module (dispenser series BMP 2xxx.S);
- electronic module.

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 EN 13617-1:2001 (drawings No. 499-1750; 499-1751 for dispensers BMP 500; drawings No. 489-1752, 499-1752 for dispensers BMP 2000 and drawings No. 499-1753, 499-1754 for dispenser BMP 3000):.

Inner space of hydraulic part housing - **zone 1**

Inner space of hose module of dispenser - **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**

Inner space of coaxial dispensing hose and the whole vapour recovery lines - **zone 0**

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. : 03/0022 – supplement No. 1

(17) Special conditions for safe use: none

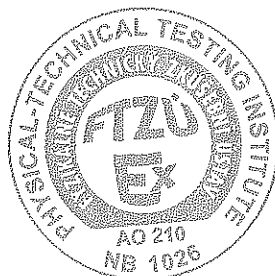
(18) Essential Health and Safety Requirements:

18.1 According to Directive 94/9/EC clause 1.0.6 of Annex 2 and Instruction for installation and use the dispenser No. UP 002-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. Šindler Jaroslav
Head of certification body



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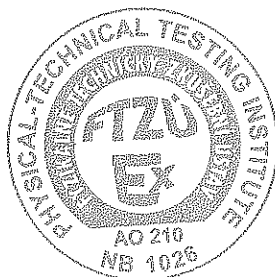
(14)

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(19)

LIST OF DOCUMENTATION

- ◆ List of used parts and apparatus - document No. EX_TABN 200B on 02/2005
- ◆ List of used parts and apparatus - document No. EX_TABN 220B on 02/2005
- ◆ List of used parts and apparatus - document No. EX_TABN 500B 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 - drawing No. 320-1770 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
- ◆ Upper paddle - drawing No. 420-2040 on 10/2004
- ◆ Foil with product description - drawing No. 420-2140 on 08/2005
- ◆ Safety circuits schema SHARK BMP5xx.S
- ◆ Safety circuits schema SHARK BMP2xxx.S





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DISPENSER CODE MARKING

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

Public and private station

- | | |
|--------------------|---|
| a) BMP 511.Sx | 1 medium, 1 dispensing place |
| b) BMP 511.Sx/H | 1 medium, 2 dispensing places, increased filling rate |
| c) BMP 522.Sx | 2 media, 2 dispensing places |
| d) BMP 522.Sx/H | 2 media, 2 dispensing places, increased filling rate |
| e) BMP 521.Sx/UH | 1 medium, 1 dispensing place, fast filling |
| f) BMP 522.Sx/UH/H | 2 media, 2 dispensing places, fast filling |
| g) BMP 512.Sx | 1 medium, 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), D (double side dispenser).

New types of dispenser series BMP 2xxx.SS, 2xxx.SM with laminate covers

Dispenser high 1600 mm

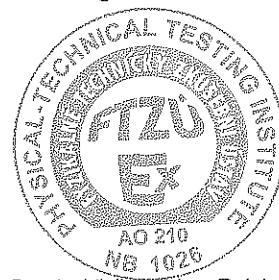
- | | |
|--------------------|---|
| a) BMP 2011.SSx | 1 medium, 1 dispensing place |
| b) BMP 2011.SSx /H | 1 medium, 2 dispensing places, increased filling rate |
| c) BMP 2012.SSD | 1 medium, 2 dispensing places |
| d) BMP 2022.SSx | 2 media, 2 dispensing places |
| e) BMP 2024.SSD | 2 media, 4 dispensing places |
| f) BMP 2033.SSx | 3 media, 3 dispensing places |
| g) BMP 2036.SSD | 3 media, 6 dispensing places |
| h) BMP 2044.SSx | 4 media, 4 dispensing places |
| i) BMP 2048.SSD | 4 media, 8 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).

Dispenser high 1900 mm

- | | |
|--------------------|---|
| a) BMP 2011.SMx | 1 medium, 1 dispensing place |
| b) BMP 2011.SMx /H | 1 medium, 2 dispensing places, increased filling rate |
| c) BMP 2012.SMD | 1 medium, 2 dispensing places |
| d) BMP 2022.SMx | 2 media, 2 dispensing places |
| e) BMP 2024.SMD | 2 media, 4 dispensing places |
| f) BMP 2033.SMx | 3 media, 3 dispensing places |
| g) BMP 2036.SMD | 3 media, 6 dispensing places |
| h) BMP 2044.SMx | 4 media, 4 dispensing places |
| i) BMP 2048.SMD | 4 media, 8 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).





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(20)

DISPENSER CODE MARKING

New types of dispenser series BMP 2xxx.ST with laminate covers

- | | |
|--------------------|---|
| a) BMP 2011.STx | 1 medium, 1 dispensing place |
| b) BMP 2011.STx /H | 1 medium, 2 dispensing places, increased filling rate |
| c) BMP 2012.STD | 1 medium, 2 dispensing places |
| d) BMP 2022.STx | 2 media, 2 dispensing places |
| e) BMP 2024.STD | 2 media, 4 dispensing places |
| f) BMP 2033.STx | 3 media, 3 dispensing places |
| g) BMP 2036.STD | 3 media, 6 dispensing places |
| h) BMP 2044.STx | 4 media, 4 dispensing places |
| i) BMP 2048.STD | 4 media, 8 dispensing places |

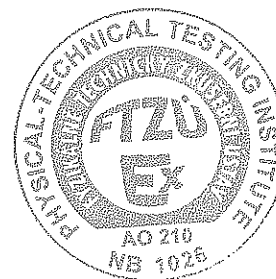
Symbol "x" specifies dispenser design relating to its orientation at fuel station. Symbol "x" can be: R (single side dispenser – right orientation), L (single side dispenser – left orientation).

(21) **ELECTRIC PARAMETERS:**

- | | | |
|-----------------|----------------------|----------------------|
| Supply voltage: | - electronics | 230 V ± 10 %; 50 Hz |
| | - lighting | 230 V ± 10 %; 50 Hz |
| | - electric motor | 3 x 400/230 V; 50 Hz |
| | - el. magnetic valve | 230 V ± 10 %; 50 Hz |
| Electromotor | - hydraulic part | 0,75 kW |
| | - vapour recovery | 0,37 kW |

(22) **TECHNICAL PARAMETERS:**

- | | |
|--------------------------|--|
| Nominal inner diameter | DN 32 |
| Maximum service pressure | 0,18 MPa |
| Suction head | 3 m |
| Service temperature | - 20 °C ... + 40 °C – basic version |
| | - 25 °C ... + 55 °C – standard version |



22.1 Filling rate of dispenser series SHARK 5xx.S, BMP 2xxx.S

Dispenser type	Normal filling	High speed (/H)	Fast filling (/UH)
Max. filling rate Q_{max} [dm ³ .min ⁻¹]	50	80	130
Min. filling volume Q_{min} [dm ³ .min ⁻¹]	3	5	10
Min. measured volume V_{min} [dm ³]	2	5	10
Maximum unit price (number of digits)	99,99 (4)		
Maximum charged price (number of digits)	99999,9 (6)		
Accuracy	0,5		
Liquids	gasoline and diesel oil		