Physical Technical Testing Institute

Ostrava-Radvanice

(1) # Supplement No. 2 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 BMP 500.SX Economy, BMP 2000.SI Island**

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

(6) Address: **Pražská 2325/68, 678 01 Blansko, Czech Republic**

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

(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 requirements, 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 13 617-1:2004

(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. 2013**

Responsible person:

Dipl. Ing. Sindler Jaroslav
Head of certification body

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ AO 210 NB 1026

Date of issue: 21 of May 2008

Number of pages: 4

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(13) **Schedule**

(14) # Supplement No. 2 to EC-Type Examination Certificate N° FTZÚ 03 ATEX 0022

(15) Description of Equipment or Protective System:

The fuel dispensers type series BMP 500.SX Economy, BMP 2000.SI Island are intended for dispensing of liquid oil products – gasoline and diesel oil with accuracy ± 0,5% for filling rate from 2 $dm^3.min^{-1}$ to 130 $dm^3.min^{-1}$.

The fuel dispenser construction consists of these basic modules:

- dispenser frame;
- pump and measuring hydraulic module;
- column module;
- electronic module.

Design modification for dispenser consists in application of column in dispenser frame.

Classification of hazardous area in dispenser and outside of dispenser is defined in accordance with EN 13617-1:2004:

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

Inner space of column module of dispenser **- zone 1**

Outside space of hydraulic part housing and column 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 providing degree of protection IP 67 and 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. 2

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

18.1 Essential health and safety requirement of Directive 94/9/EC, are covered in standard mentioned in (10).

18.2 The dispenser shall not to be installed in hazardous area, according to instruction for use No. TB 016-CZ.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

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(13) **Supplement No. 2 to**

(14) **EC-Type Examination Certificate N° FTZÚ 03 ATEX 0022**

(19) **LIST OF DOCUMENTATION**

♦ Column, assembly I	- drawing No. 311-2052	on 16.06.2006
♦ Dispenser column	- drawing No. 211-1325	on 06.02.2007
♦ Manufacturer plate	- drawing No. 2-411-1997	on 19.02.2007
♦ Dimension of dispensers	- drawing No. 422-2356	on 23.01.2008
	- drawing No. 422-2322	on 23.01.2008
♦ Hydraulic schema	- drawing No. 453-2356	on 23.01.2008
	- drawing No. 453-2322	on 23.01.2008
♦ Production documentation	- document No. TB 016-CZ	on 04.04.2008
♦ Classification of dispensers parts	- drawing No. 451-2322	on 23.01.2008
	- drawing No. 451-2356	on 23.01.2008

(20) **DISPENSER CODE MARKING**

Dispenser variant series BMP 500.SX with marking ECONOMY for public and private fuel dispensing – dispenser high 1400 mm

a) BMP 511.SXx	1 medium, 1 dispensing place
b) BMP 511.SXx /H	1 medium, 1 dispensing place, increased filling rate
c) BMP 522.SXx	2 media, 2 dispensing places
d) BMP 522.SXx /H	2 medium, 2 dispensing places, increased filling rate
e) BMP 521.SXx /UH	1 medium, 1 dispensing place, fast filling

Dispenser variant series BMP 2000.SI with marking ISLAND for public and private fuel dispensing - dispenser high 1600 mm

a) BMP 2011.SIx	1 medium, 1 dispensing place
b) BMP 2011.SIx /H	1 medium, 1 dispensing place, increased filling rate
c) BMP 2022.SIx	2 media, 2 dispensing places
d) BMP 2022.SIx /H	2 media, 4 dispensing places, increased filling rate
e) BMP 2021.SIx /UH	1 medium, 1 dispensing place, fast filling
f) BMP 2022.SIx UH//H	2 media, 2 dispensing places, increased filling rate and fast filling
g) BMP 2024.SID	2 media, 4 dispensing places
h) BMP 2024.SID /H	2 media, 4 dispensing places, increased filling rate

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).

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(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, or +24 V DC ± 5 %
Electromotor	- hydraulic part	0,75 kW
	- vapour recovery	0,38 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 variant
	-25 °C ... +55 °C – standard variant
Dimension of dispensers BMP 500.SX:	850 (d) x 520 (h) x 1400 (w) mm
Dimension of dispensers BMP 2000.SI:	960 (d) x 520 (h) x 1600 (w) mm

22.1 Filling rate of dispenser series BMP 500.SX, BMP 2000.SI

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} [$dm^3.min^{-1}$]	5	5	10
Min. measured volume V_{min} [dm^3]	2	5	10
Accuracy	0,5 %		
Liquids	gasoline and diesel oil		

Responsible person:

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