



## EC-Type Examination Certificate

- (1) **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 dispenser, type series BMP 5\*\*/LPG**
- (5) Manufacturer: **TATSUNO – BENČ EUROPE, a.s.**
- (6) Address: **Pražská 68, P.O.Box 49, 678 01 Blansko, Czech Republic**
- (7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

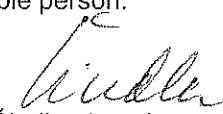
**03/0025 dated 19 March 2003**

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:  
**pr EN 14678-1:2001; EN 60204-1:1997**
- (10) If the sign „X“ is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include following:

**Ex II 2G IIA T3**

This EC-Type Examination Certificate is valid till: **31 of May 2008**

Responsible person:

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 5 of May 2003

Number of pages: 4

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Physical Technical Testing Institute  
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 03 ATEX 0025**

(15) Description of Equipment or Protective System:

Fuel dispensers - series BMP 500/LPG and its derived variants are intended to be used for dispensing of liquid propane-butane (LPG) to the car's tanks.

The construction of dispenser consists of following basic modules:

- dispenser frame
- LPG aggregate
- electronic meter

Determination of hazardous area inside and outside of dispenser is applied in accordance with pr EN 14678-1:2001 and EN 60019-10:1996

**Inside area** of dispenser housing

- zone 1

**Outside area** of dispenser housing up to 50 mm over upper edge of housing and to 200 mm from upper edge of housing up to the ground is classified to

- zone 2

**Electronics housing** is separated by vertical vapour barrier type 1, housing has a degree of protection with enclosure IP 54 according to EN 60 529

- inside and outside of housing is a safe area (non-classified)

(16) Report No. : 03/0025

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

18.1 According to Directive 94/9/EC (Government Order No. 176/1997 Coll.) Annex 2, clause 1.0.6 and manufacturer instruction for use No. IN 006 CZ, **the dispenser is not allowed to be installed in hazardous area.**

18.2 The others essential safety requirements are covered by standards mentioned in clause (9) of this certificate.

Responsible person:

  
Dipl. Ing. Šindler Jaroslav

Head of certification body



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**LIST OF DOCUMENTATION**

- ◆ Technical specification BMP 500/LPG No. TP 021.435.009 on 01. 01. 2001
- ◆ Instruction for installation and application BMP 500/LPG No. IN 006-CZ on 29. 05. 2002
- ◆ Dispenser - type BMP 500/LPG - approval drawing on 10. 01. 2003
- ◆ Dispenser BMP 513/LPG - drawing No. 422-1544 on 09/2000
- ◆ Hydraulic diagram BMP 500/LPG - drawing No. 422-1759 on 15. 01. 2003
- ◆ Inside dispenser areas BMP 500/LPG - drawing No. 499-1540 on 28. 02. 2002
- ◆ Column 1 - drawing No. 211-1177 on 12/2000
- ◆ Column 2 - drawing No. 211-1182 on 08/2000
- ◆ Hydraulic module of ventilation BMP 500/LPG - drawing No. 298-1194 on 10. 01. 2003
- ◆ Sight glass LPG - drawing No. 310-1401 on 11/2000
- ◆ Sight glass cover - drawing No. 408-1537 on 08/2000
- ◆ Sight glass cover - drawing No. 408-1537 on 08/2000
- ◆ Dispenser nozzle cover - drawing No. 308-1372 on 08/2000
- ◆ Hose hinge - drawing No. 312-1196 on 01/1997
- ◆ Dispenser plate BMP 500/LPG - drawing No. 420-1637-500 on 02/2003
- ◆ Filter LPG - drawing No. 3-T987-0010 on 18. 04. 2002
- ◆ Separator OPF 01 - drawing No. 2-T993-0005 on 18. 04. 2002
- ◆ Plate OPF 01 - drawing No. 4-T000-068 on 17. 04. 2002
- ◆ Dispenser description - drawing No. 320-1403 on 06. 12. 2000
- ◆ Flowmeter MP-02524-P - page No. 382
- ◆ Flowmeter - drawing No. MP-02524-BC 003
- ◆ Differential valve VD-0206 - technical description
- ◆ Differential valve VD-0206 - drawing No. VD-0206 CC 003
- ◆ Safety valve VR-0051 - drawing No. VR-0051 2C 002
- ◆ Back-pressure valve VCV-0203 - drawing No. VCV-0203 C 003
- ◆ Dispenser nozzle, model T3 - technical description
- ◆ Dispenser nozzle GPL, model T3 - drawing No. TL 10680/3
- ◆ Safety break TLV 32945 - drawing No. TLV 32945/4
- ◆ Dispenser BMP 511/LPG, BMP 513/LPG - dimension drawing, 1 page
- ◆ List of assembly drawings of electric circuits of dispensers, 1 page
- ◆ List of connection boxes drawings, 1 page
- ◆ Drawings list BMP 500/LPG, 1 page
- ◆ El. assembly diagram BMP 513/LPG - drawing No. 323-1402
- ◆ El. assembly diagram BMP 514/LPG - drawing No. 323-1405



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**CODE MARKING OF FUEL DISPENSERS**

Public dispensing:

Dispensers	BMP 511/LPG	1 dispensing stand; 1 display
	BMP 513/LPG	1 dispensing stand; 2 displays

**ELECTRIC PARAMETERS:**

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

**TECHNICAL PARAMETERS:**

Maximum flow:	$Q_{max}$	50 dm <sup>3</sup> .min <sup>-1</sup>
Minimum flow:	$Q_{min}$	5 dm <sup>3</sup> .min <sup>-1</sup>
Accuracy		± 1 %
Service pressure	p	1,6 MPa
Maximum service pressure	$p_{max}$	1,8 MPa
Nominal pressure	$p_N$	2,5 MPa
Test pressure	$p_Z$	4,0 MPa
Nominal inner diameter – input pipeline		DN 19 (liquid phase of LPG)
	- return pipeline	DN 16 (gas phase of LPG)
Ambient service temperature		- 20 °C ... + 50 °C
Service temperature of medium		- 20 °C ... + 50 °C

