



EC-Type Examination Certificate

(1)

(2)

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

(3) EC-Type Examination Certificate Number:

FTZÚ 05 ATEX 0084X

(4) Equipment or protective system: **Dispenser of liquid fuel and LPG (propane-butane),
type series V-line 46xx.xxx/LPG and V-line 47xx.xxx/LPG**

(5) Manufacturer: **ADAMOV – SYSTEMS, a.s.**

(6) Address: **Mírová 2, 679 04 Adamov, 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°

05/0084 dated 18 August 2005

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:


EN 13617-1:2004;

prEN 14678-1:2003

(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:

 **II 2G IIA T3**

This EC-Type Examination Certificate is valid till: **31 of August 2010**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 18 of August 2005

Number of pages: 4
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Physical Technical Testing Institute
Ostrava-Radvanice

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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X**

(15) Description of Equipment or Protective System:

The fuel dispensers, type series V-line 46xx.xxx/LPG, – dispenser with suction system with own pumping assembly for each product and pressure system for LPG dispensing.

The fuel dispensers, type series V-line 47xx.xxx/LPG – dispenser with pressure system without own pumping assembly, ready for connection to petrol station pipelines, including to pressure system of LPG dispensing.

The fuel dispensers, are intended for dispensing of liquid oil products – gasoline, diesel oil, kerosene and filling of car tank with liquid propane - butane (LPG) (flammable liquids of I. to IV. fire hazard classes) with filling rate from $2 \text{ dm}^3 \cdot \text{min}^{-1}$ to $150 \text{ dm}^3 \cdot \text{min}^{-1}$ for petrol fuel and from 5 to $40 \text{ dm}^3 \cdot \text{min}^{-1}$ for LPG.

The dispensers of above mentioned series are designed for one side or both side coincidental dispensing of 1 to 5 medium types. The dispenser can be produced in variants V-line H 46xx.xxx/LPG, 47xx.xxx/LPG – high column module with free hanged hoses or in variants V-line R 46xx.xxx/LPG, 47xx.xxx/LPG – low hose module with drawing-in system.

Classification of hazardous area in dispenser and outside of dispenser is defined in accordance with EN 13617-1 and pr EN 14678-1.

Inner space of hydraulic part housing and LPG module

- zone 1

Inner space of hose holder module

- 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 (counter) housing is separated by vertical barrier type 1, the housing has a degree of protection IP 67/ IP 54 / IP 43 according to EN 60 529

- inside and outside of housing

is non-hazardous area.

(16) Report No. : FTZÚ No. 05/0084

(17) Special conditions for safe use: **X**

17.1 When the dispenser type V-line 46xx.xxx/LPG and V-line 47xx.xxx/LPG is installed and application at petrol station, the national legislation must be observed.

(18) Essential Health and Safety Requirements:

18.1 According to Directive 94/9/EC Annex 2, cl. 1.0.6 and Instruction for use No. OÚ/007/2005/CZ the dispenser can't be installed in hazardous area according to EN 60079-10:2003.

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

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 18 of August 2005

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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X**

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LIST OF DOCUMENTATION

- List of approval documentation No. TÚ/004/05
- Technical description - instruction No. 1179/2005 ... 27.05.2005
- Instruction for use, maintenance and installation – document No. OÚ/007/2005/CZ 02.06.2005
- Dispenser assembly V-line H 46xx.xxx/LPG
 - drawing No. 4492 16514 ... 27.05.2005
- Module 8690.xxx/LPG - drawing No. 4493 16535 ... 02.06.2005
- Zone and dispenser ventilation diagrams - drawing No. 4492 16515 ... 27.05.2005
- Dispenser, assembly
 - drawing No. 4492 16563 ... 17.05.2005
 - piece list No. 4492 16563 ... 17.05.2005
- Frame 3P V-line/H/LPG
 - drawing No. 4452 16484 ... 17.05.2005
 - piece list No. 4452 16484 ... 17.05.2005
- Hydraulics 240H/ODS1/130
 - drawing No. 4452 16561 ... 17.05.2005
 - piece list No. 4452 16561 ... 17.05.2005
- Vapour recovery VR2-E/H/CP
 - drawing No. 4452 16562 ... 17.05.2005
 - piece list No. 4452 16562 ... 17.05.2005
- El. installation of dispenser MPD
 - drawing No. 4891 04697 ... 17.05.2005
 - piece list No. 4891 04697 ... 17.05.2005
- El. assembly schema of dispenser MPD - drawing No. 4811 04698 ... 17.05.2005
- Module LPG V-line H
 - drawing No. 4493 16695 ... 02.06.2005
 - piece list No. 4493 16695 ... 02.06.2005
- Module frame 8690.xxx/LPG
 - drawing No. 4453 16809 ... 02.06.2005
 - piece list No. 4453 16809 ... 02.06.2005
- Hydraulics module 8690.xxx/LPG - drawing No. 4452 16815 ... 02.06.2005
- Manufacturer plate – Czech version - drawing No. 4404 16825 ... 02.06.2005
- LPG dispenser plate – Czech version - drawing No. 4404 16826 ... 02.06.2005
- List of Ex components for dispenser module 8690.xxx/LPG
(T_A – 20 °C ... + 40 °C) - document No. TÚ/1036/1/2005 ... 27.06.2005
- List of Ex components for dispenser module 8690.xxx/LPG
(T_A – 30 °C ... + 60 °C) - document No. TÚ/1036/2/2005 ... 27.05.2005
- List of Ex components for dispenser type series V-line 46xx.xxx, 47xx.xxx
(T_A – 20 °C ... + 40 °C) - document No. TÚ/1030/2005/H ... 22.06.2005
- List of Ex components for dispenser type series V-line 46xx.xxx, 47xx.xxx
(T_A – 30 °C ... + 60 °C) - document No. TÚ/1030/1/2005/H ... 22.06.2005





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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X**

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ELECTRIC DATA

a) Electrical parameters of liquid fuel dispensing module

Supply voltage:

Electronics	230 V \pm 10%; 50 Hz; 50 VA
Electric motor	3 x 230/400 V \pm 10%; 50 Hz
Vacuum pump	3 x 230/400 V \pm 10 %; 50 Hz

Electric motor of

Hydraulic unit	0,55 kW; 0,75 kW; 1,1 kW
Vacuum pump	0,18 kW; 0,37 kW

b) Electrical parameters of dispensing module LPG

Supply voltage U_N	230 V \pm 10 %; 50 Hz
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(21)

TECHNICAL DATA

a) Technical parameters of liquid fuel dispensing module

Nominal inside diameter	DN 40 or DN 50 (depends on dispenser filling rate)
Maximum service pressure P_{max}	0,25 MPa
Maximum suction lift:	- 55 kPa for gasoline - 85 kPa for diesel oil
Filling rate according to dispenser type and medium:	30; 40; 60; 70; 80; 130 or 150 dm ³ .min ⁻¹

b) Technical parameters of dispensing module LPG

Maximum flow rate Q_{max}	40 dm ³ .min ⁻¹
Minimum flow rate Q_{min}	5 dm ³ .min ⁻¹
Minimum dispensed quantity V_{min}	5 dm ³
Cyclic volume V_C	0,5 dm ³
Max. service pressure p_{max}	1,8 MPa
Rated pressure p_N	2,5 MPa
Test pressure p_Z	4,0 MPa
Rated inner diameter	DN19 input pipeline (liquid phase of LPG) DN16 output (recovery) pipeline (gas phase of LPG)
Service ambient temperature T_A	- 20 °C ... + 40 °C – for standard design - 30 °C ... + 60 °C – for extreme climatic condition





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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 05 ATEX 0084X

(4) Equipment or protective system: **Multi-product liquid fuel and LPG (propane-butane) dispenser,
type series V-line 46xx.xxx/LPG and V-line 47xx.xxx/LPG**

(5) Manufacturer: **ADAMOV - SYSTEMS, a.s.**

(6) Address: **Mírová 2, 679 04 Adamov, Czech Republic**

(7) This supplement of certificate is valid for: - modification of certified apparatus
- 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 requirement, which manufacturer shall fulfil before products are placed on market or introduced in service.

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

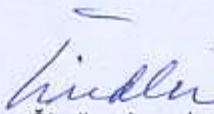
EN 13617-1:2004; EN 14678-1:2006

(11) Marking of equipment shall contain symbols:

Ex II 2G IIA T3

(12) This type examination certificate is valid till: **30 June 2013**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 23.06.2008

Number of pages: 6

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**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X**

(15) Description of Equipment or Protective System:

Modification of dispenser, type V-line 46xx.xxx/LPG and V-line 47xx.xxx/LPG consist in design of new model LPG, type V-line 8690.xxx/LPG.

(16) Report No. : FTZÚ No. 05/0084 – supplement No. 1

(17) Special conditions for safe use: **X**

17.1 When the multi-product dispenser type V-line 46xx.xxx/LPG and V-line 47xx.xxx/LPG is installed at the petrol station, the national legislation must be observed.

(18) Essential Health and Safety Requirements:

18.1 The essential safety requirement are covered with requirements of standard mentioned in (10) and in supplement to this certificate.

18.2 Requirement for installation, service and maintenance are given in document No. OÚ/007/2005/MID.

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



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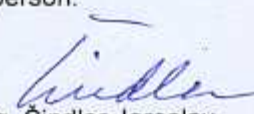
Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X

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LIST OF DOCUMENTATION

- Instruction for use, maintenance and installation – document No. OÚ/007/2005/MID ... V/2008
- Dispenser assembly V-line H 4701.xxx/LPG, zone - drawing No. 449 320 234 ... 25.04.2008
- Dispenser assembly V-line H 470x.xxx/LPG, zone - drawing No. 449 320 235 ... 25.04.2008
- Dispenser assembly V-line R 4701.xxx/LPG, zone - drawing No. 449 320 354 ... 05.06.2008
- Dispenser assembly V-line R 470x.xxx/LPG, zone - drawing No. 449 320 356 ... 06.06.2008
- Dispenser assembly LPG V-line H 4701.xxx/LPG - drawing No. 449 220 070 ... 24.04.2008
- Dispenser assembly 4701.020/2/LPG - piece list No. 88006246 ... 24.04.2008
- Dispenser assembly V-line H 4701.020/LPG - drawing No. 402 075 ... 24.04.2008
- piece list No. 402 075 ... 24.04.2008
- Frame VS 4701H LPG - drawing No. 402 073 ... 24.04.2008
- piece list No. 402 073 ... 24.04.2008
- Aggregate LPG 4701.020 - drawing No. 402 074 ... 24.04.2008
- piece list No. 402 074 ... 24.04.2008
- El. installation of dispenser LPG - piece list No. 489 405 857 ... 24.04.2008
- El. installation of dispenser LPG - drawing No. 489 105 856a ... 24.04.2008
- piece list No. 489 105 856 ... 24.04.2008
- El. assembly schema - drawing No. 481 105 855 ... 24.04.2008
- Module LPG - drawing No. 449 220 075 ... 24.04.2008
- Module V-line 8690.H22/LP - piece list No. 880 063 29 ... 24.04.2008
- Module V-line 8690.H22/LPG - drawing No. 402 082 ... 24.04.2008
- piece list No. 402 082 ... 24.04.2008
- Module frame V-line 8690.H22/LPG - drawing No. 402 081 ... 24.04.2008
- piece list No. 402 081 ... 24.04.2008

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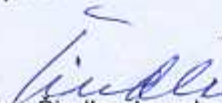
Supplement No. 1 to
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(19)

LIST OF DOCUMENTATION - continue

- Dispenser assembly LPG V-line R 4701.xxx/LPG - drawing No. 449 220 360 ... 09.06.2008
- El. installation of dispenser MPD - piece list No. 489 405 900 ... 24.04.2008
- El. installation of dispenser MPD - drawing No. 489 105 899 ... 24.04.2008
- piece list No. 489 105 899 ... 24.04.2008
- El. assembly schema MPD - drawing No. 481 105 897 ... 24.04.2008
- List of Ex components of dispenser module 8690.xxx/LPG
(T_A - 20 °C ... + 40 °C) - document No. TÚ/1015/2008 ... 27.03.2008
- List of Ex components of dispenser module 8690.xxx/LPG
(T_A - 20 °C ... + 60 °C) - document No. TÚ/1018/2008 ... 27.03.2008
- List of Ex components of dispenser module 8690.xxx/LPG
(T_A - 30 °C ... + 60 °C) - document No. TÚ/1016/2/2008 ... 27.03.2008
- List of Ex components of dispenser module 8690.xxx/LPG
(T_A - 40 °C ... + 60 °C) - document No. TÚ/1017/2/2008 ... 27.03.2008
- List of Ex components of dispenser assembly type series V-line 46xx.xxx, 47xx.xxx
(T_A - 20 °C ... + 40 °C) - document No. TÚ/1033/2008 ... 27.03.2008
- List of Ex components of dispenser assembly type series V-line 46xx.xxx, 47xx.xxx
(T_A - 20 °C ... + 50 °C) - document No. TÚ/1034/2008 ... 27.03.2008
- List of Ex components of dispenser assembly type series V-line 46xx.xxx, 47xx.xxx
(T_A - 30 °C ... + 60 °C) - document No. TÚ/1035/2008 ... 27.03.2008
- List of Ex components of dispenser assembly type series V-line 46xx.xxx, 47xx.xxx
(T_A - 40 °C ... + 60 °C) - document No. TÚ/1036/2008 ... 27.03.2008

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Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X

(20)

ELECTRIC PARAMETERS

a) Electrical parameters of liquid fuel dispensing module

Supply voltage	- Electronics	230 V \pm 15 %; 50 Hz; input 85 VA
	- Electronic housing heating	230 V \pm 15 %; 50 Hz; input 250 VA
	- Electric motor	3 x 230/400 V \pm 10 %; 50 Hz
	- Vacuum pump	3 x 230/400 V \pm 10 %; 50 Hz
Power output	- pump	0,55 kW; 0,75 kW; 1,1 kW
	- vacuum pump	0,18 kW; 0,37 kW

b) Electrical parameters of dispensing module LPG

Supply voltage U_N	230 V \pm 10 %; 50 Hz
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TECHNICAL PARAMETERS

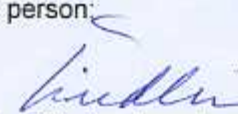
a) Technical parameters of fuel dispenser module

Nominal inside diameter DN40 or DN50 (depends on dispenser filling rate)

Maximum service pressure	0,32 MPa
Test pressure	0,4 MPa
Maximum suction lift:	- 55 kPa for petrol
	- 85 kPa for diesel

Flow rate (according to dispenser type) 40; 60; 70; 80; 110; 120; 130; 150; 170 dm³.min⁻¹

Responsible person:


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Head of certification body



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Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X

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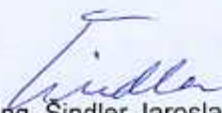
TECHNICAL PARAMETERS - continue

b) Technical parameters of dispensing module LPG

Maximum flow rate Q_{\max}	40 dm ³ .min ⁻¹
Minimum flow rate Q_{\min}	5 dm ³ .min ⁻¹
Minimum dispensed quantity V_{\min}	5 dm ³
Max. service pressure p_{\max}	1,8 MPa
Rated pressure p_N	2,5 MPa
Test pressure p_z	7,5 MPa
Rated inner diameter	DN19 input pipeline (liquid phase of LPG) DN16 output (recovery) pipeline (gas phase of LPG)
Service ambient temperature T_A	- 20 °C ... + 40 °C – basic design - 20 °C ... + 50 °C – standard design - 30 °C ... + 60 °C } - 40 °C ... + 60 °C } - for extreme climatic conditions

Responsible person:

Date of issue: 23.06.2008


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**Supplement No. 2 to
EC-Type Examination Certificate**

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

(3) EC-Type Examination Certificate Number:

FTZÚ 05 ATEX 0084X

(4) Equipment: **Multi-product liquid fuel and LPG (propan-butane) dispenser,
type series V-line 46xx.xxx/LPG and ; V-line 47xx.xxx/LPG**

(5) Manufacturer: **Adast Systems, a.s.**

(6) Address: **Mírová 2, 679 04 Adamov, Czech Republic**

(7) This supplement of certificate is valid for: - Modification of certified apparatus
- Verification according to a new standard
- Change of manufacturer address

(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, a list of which is mentioned in the 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 other requirement which the manufacturer shall fulfil before products are placed on the market or introduce in service.

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

EN 13617-1:2004+A1:2009

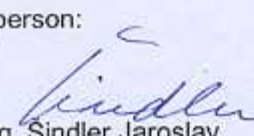
EN 14678-1:2006+A1:2009

(11) Marking of equipment shall contain symbols:

Ex II 2G IIA T3

(12) This type examination certificate is valid till: **12.11.2015**

Responsible person:


Dipl. Ing. Sindler Jaroslav
Head of certification body



Date of issue: 12.11.2010

Number of pages: 3
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**Physical Technical Testing Institute
Ostrava-Radvanice**

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**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X**

(15) Description of Equipment or Protective System:

This supplement of certificate verifies alternative dispenser assembly layout and the equipment is verified according new standard EN 13617-1:2004+A1:2009 and EN 14678-1:2006+A1:2009. For special alternative design of dispenser the range of ambient temperatures was expanded to -20 °C to +50°C and -40 °C to +60°C.

The following new types of devices and components can be applied in the dispenser assembly layout: Terminal box GENERI, terminal box Bartec, terminal box AB controls and technology, magnetic encoders ELTOMATIC, magnetic encoder Metra Blansko, electromotors ELPROM, electromagnetic valves Danfoss, temperature sensors ZPA Nová Paka and JSP Nová Paka, flow gas measure system FAFNIR, gas sensor Bürkert Werke GmbH & Co.KG, flowmeter GILBARCO, fuel supply hose ELAFLEX HIBY, coaxial fuel supply hose ELAFLEX HIBY, spheric cock W plus, LPG nozzle ELAFLEX HIBY, differential valve Adast Systems. All above mentioned alternative devices and components were separately verified for conformity with essential requirements or their relevant properties were verified after their instalation in dispenser assembly.

(16) Report No. : 05/0084/2

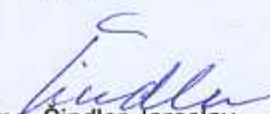
dated 11.11.2010

(17) Special conditions for safe use: Remain unchanged

(18) Essential Health and Safety Requirements: Remain unchanged

Responsible person:

Date of issue: 12.11.2010


Dipl. Ing. Sindler Jaroslav
Head of certification body



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(14)

**Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0084X**

(19)

LIST OF DOCUMENTATION

- List of Ex components for dispenser type series V-line 8690.xxx/LPG ($T_A -20 + +40^{\circ}\text{C}$)
 - document No. VTÚ/066/2010 20.05.2010
- List of Ex components for dispenser type series V-line 8690.xxx/LPG ($T_A -20 + +50^{\circ}\text{C}$)
 - document No. VTÚ/067/2010 20.05.2010
- List of Ex components for dispenser type series V-line 8690.xxx/LPG ($T_A -30 + +60^{\circ}\text{C}$)
 - document No. VTÚ/068/2010 20.05.2010
- List of Ex components for dispenser type series V-line 8690.xxx/LPG ($T_A -40 + +60^{\circ}\text{C}$)
 - document No. VTÚ/069/2010 20.05.2010
- Instruction for use, maintenance and instalation
 - document No. OÚ/007/2005/CZ 05.2010
- List of Ex components for dispenser type series V-line 46xx.xxx, V-line 47xx.xxx ($T_A -20 + +40^{\circ}\text{C}$)
 - document No. VTÚ/034/2010 20.05.2010
- List of Ex components for dispenser type series V-line 46xx.xxx, V-line 47xx.xxx ($T_A -20 + +50^{\circ}\text{C}$)
 - document No. VTÚ/035/2010 20.05.2010
- List of Ex components for dispenser type series V-line 46xx.xxx, V-line 47xx.xxx ($T_A -30 + +60^{\circ}\text{C}$)
 - document No. VTÚ/036/2010 20.05.2010
- List of Ex components for dispenser type series V-line 46xx.xxx, V-line 47xx.xxx ($T_A -40 + +60^{\circ}\text{C}$)
 - document No. VTÚ/037/2010 20.05.2010

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 12.11.2010

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