



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 0093

(4) Equipment or protective system: **Valve end-of-line deflagration flame arrester DN 50
type J 341.50/1/P7AE/II**

(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°

05/0093 dated 15 June 2005

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

EN 12874:2001

(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 1G IIA**

This EC-Type Examination Certificate is valid till: **30 of June 2010**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 16 of June 2002

Number of pages: 3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0093**

(15) Description of Equipment or Protective System:

Valve end-of-line deflagration flame arrester, type J 341.50/1/P7AE/II is designed for deflagration. Valve end-of-line flame arrester consists of the following main parts:

- arrester housing with connecting internal thread Rp2
- tape flame arrester element
- arrester cover with build-in pressure relief and vacuum valves;

Flame arrester element consists of two tape flame arrester elements with gap (high of crimped tape) $\leq 0,7$ mm.

Technical data:

Nominal inside diameter of arrester	DN 50
Nominal pressure	PN 6
Test pressure	0,2 MPa
Explosion group	IIA
Constructional gap of joint in arrester element	$\leq 0,7$ mm
Service temperature	- 30 °C + 60 °C
Opening pressure of overpressure valve	0,003 MPa \pm 20%
Opening pressure of underpressure valve	-0,0008 MPa \pm 20%
Mass	8,6 kg

(16) Report No. : 05/0093

(17) Special conditions for safe use: --

(18) Essential Health and Safety Requirements:

18.1 Apparatus comply with essential requirement of Directive 94/9/EC, including annex 2, clause 1.0.6.

18.2 Installation and service requirements comply with requirement in accordance with cl. 6.4 of EN 12874:2001 and are given in Instruction for installation, No. OÚ/006/2005/CZ.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 16 of June 2005

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

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(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0093**

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LIST OF DOCUMENTATION

- Technical specification document No. 1116/2005 ... 29.03.2005
- Instruction for installation, service and maintenance No. OÚ/006/2005/CZ ... 6/2005
- Drawings No.
 - 429 201 361 ... 29.03.2005
 - 425 401 348 ... 29.03.2005
 - 425 401 354 ... 29.03.2005
 - 420 400 162c ... 29.03.2005
 - 420 400 492d ... 29.03.2005
 - 420 400 511b ... 29.03.2005
 - 420 301 311 ... 29.03.2005
 - 425 401 355 ... 29.03.2005
 - 420 301 312 ... 29.03.2005
 - 420 401 362 ... 29.03.2005
 - 420 401 600 ... 29.03.2005
 - 446 007a ... 29.03.2005
 - 446 008a ... 29.03.2005
 - 446 009 ... 29.03.2005
 - 446 010 ... 29.03.2005
 - 446 011 ... 29.03.2005
 - 420 301 133 ... 29.03.2005
 - 23190b ... 29.03.2005
 - 420 400 964 ... 29.03.2005
 - 420 401 507 ... 29.03.2005
 - 446 015 ... 29.03.2005
 - 420 400 723 ... 29.03.2005
 - 555 408a ... 29.03.2005
 - 446 012a ... 29.03.2005
 - 420 401 118a ... 29.03.2005
- Piece list No.:
 - 429 201 361 ... 29.03.2005
 - 425 401 348 ... 29.03.2005
 - 425 401 354 ... 29.03.2005
 - 425 401 355 ... 29.03.2005
 - 446 007 ... 29.03.2005
 - 446 010 ... 29.03.2005





(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 05 ATEX 0093

(4) Equipment or protective system: **Valve end-of-line deflagration flame arrester DN 100
type J 341.50/1/P7AE/II**

(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 manufacturer's name
- prolongation of certificate validity

(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 requirements 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 of following standards:

EN 12 874:2001

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

II 1G IIA

(12) This type examination certificate is valid till: **30.06.2015**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.06.2010

Number of pages: 2
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**Physical Technical Testing Institute
Ostrava-Radvanice**

(13)

Schedule

(14)

**Supplement No. 1 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0093**

(15) Description of Equipment or Protective System:

Design of the flame arrester, type **J 341.50/1/P7AE/II**, is the same.

The standard EN 12874:2001 is still valid without any modification.

Modification of manufacturer's name.

(16) Report No. : 05/0093 + supplement No.1

(17) Special conditions for safe use: --

(18) Essential Health and Safety Requirements:


18.1 The apparatus fulfil the essential health and safety requirement of Directive 94/9/EC, and standard mentioned in (10).

18.2 Installation and service requirements are given in Instruction for installation, service and maintenance No. OÚ/006/2005/CZ.

(19) LIST OF DOCUMENTATION

- Instruction for installation, service and maintenance No. OÚ/006/2005/CZ on 6/2005 was replaced by Instruction for installation, service and maintenance No. OÚ/006/2005/CZ on 5/2010
Further documentation see certificate FTZÚ 05 ATEX 0093.

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.06.2010

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(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 05 ATEX 0093

(4) Equipment or protective system: **Valve end-of-line deflagration flame arrester DN50,
Type J 341.50/1/P7AE/II**

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

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

(7) This supplement of certificate is valid for: - verification according to standard listed in (10)

(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 other requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

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

EN ISO 16852:2010

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



(12) The type examination certificate is valid till: **14. 02. 2017**

Responsible person:

Dipl. Ing. Martinák Lukáš
Head of certification body



Date of issue: **14. 02. 2012**

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Physical Technical Testing Institute
Ostrava-Radvanice

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Schedule

(14)

Supplement No. 2 to
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0093

(15) Description of Equipment or protective system:

The design of the flame arrester type J 341.50/1/P7AE/II wasn't modified. This flame arrester is end-of-line, deflagration DEF, with pressure and vacuum valve on the unprotected side.

The supplement verifies requirements of new standard mentioned in clause (10). The burning test wasn't carried out

The marking was modified and the warning labels were added.

Size flame arrester: DN50
Explosion group: IIA
Service temperature: $-20^{\circ}\text{C} \leq T_o \leq 60^{\circ}\text{C}$
Service pressure: $0,8 \times 10^5 \text{ Pa} \leq p_o \leq 1,1 \times 10^5 \text{ Pa}$
Stabilised burning BC: c, without burning time.

(16) Report No.: 05/0093-2 on 13.02.2012

(17) Special conditions for safe use: --

(18) Essential Health and Safety Requirements: They are included in standards, which are mentioned in clause (10) of this certificate and manufacturer's documentation.
The other requirements and EC Directives can be valid for the product.

(19) List of documentation:

Updated documentation:

Technical description No.	1167/2005	01.07.2011
Drawings No.:	429201361, revision a)	07.02.2011
	429301812	13.09.2011
	425401354, revision a)	02.02.2011
	425401355, revision a)	02.02.2011
	420401118, revision d)	31.01.2011
Instruction for use No.	OÚ/006/2005-DEF/CZ	VII/2011
Supplement to documentation:		
Drawings No.:	425401752	31.01.2011
	420401740	31.01.2011
	420401742	31.01.2011

Responsible person:

Dipl. Ing. Martinák Lukáš
Head of certification body



Date of issue: 14. 02. 2012

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