



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 15 ATEX 0129

(4) Equipment: **Pulse nozzle Myrlen® type VA-06, VA-10, VA-51, VA-60**

(5) Manufacturer: **MOSA Solution s.r.o.**

(6) Address: **Zámecká 297, 411 12 Čížkovice, 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°:

15/0129 dated July 2015

(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:

EN 13463-1:2009, EN 13463-5:2011

(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.

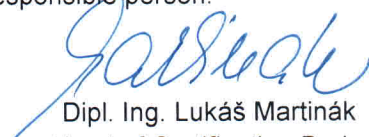
(11) This EC-Type Examination Certificate relates only to the design, examination and testing of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

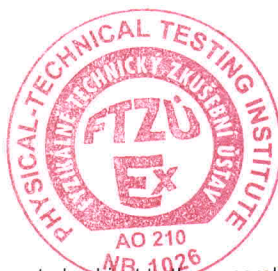
(12) The marking of the equipment or protective system shall include the following:

 **II 1Dc T110°C**

This EC-Type Examination Certificate is valid till: **14.07.2020**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 14.07.2015

Page: 1/2

This certificate is granted subject to the general conditions of the FTZÚ, s.p.
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute
Ostrava – Radvanice

(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 15 ATEX 0129**

(15) Description of Equipment or Protective System:

Pulse nozzle type VA-xx is designed to erode any stuck material by short burst (burst duration fixed at 0,25 s) of compressed air along the inner walls of storage bin or its discharging part. The required operating overpressure of compressed air is 0.60 MPa. Pulse nozzle is installed to the wall of storage bin with assembly sleeve or welding sleeve.

The construction of the pulse nozzle is suitable for use in explosive environments zone 20.

(16) Report No.: 15/0129

(17) Special conditions for safe use: none

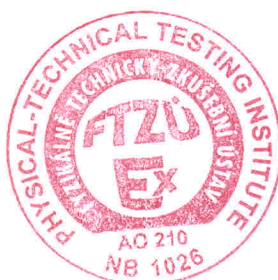
(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standard mentioned in (9), according which the product was verified and in the manufacturer's instruction for use.

(19) List of Documentation:	Date:
User manual	01/2015
Assessment of risk of ignition	05/2015
Drawings No.: T06-0100	2015
T10-0100	2015
T51-0100	2015
T60-0200	2015

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 14.07.2015

Page: 2/2

This certificate is granted subject to the general conditions of the FTZÚ, s.p.
This certificate may only be reproduced in its entirety and without any change, schedule included.

FTZÚ, s.p., Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic,
tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 15 ATEX 0129

(4) Product: **Pulse nozzle Myrlen® type VA-06xx, VA-06xx-Z, VA-10xx, VA-10xx-Z, VA-51xx,
VA-51xx-Z, VA-60SS-Z**

(5) Manufacturer: **MOSA Solution s.r.o.**

(6) Address: **Zámecká 297, 411 12 Čížkovice, Czech Republic**

(7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 15 ATEX 0129 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN ISO 80079-36:2016; EN ISO 80079-37:2016; EN 14460:2018

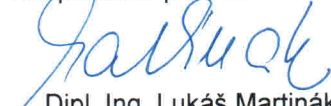
(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) The marking of the product shall include the following:

 **II 1D Ex h IIC T110°C Da**

(12) This certificate is valid till: **31.08.2025**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.08.2020

Page: 1/2



Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 15 ATEX 0129**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Extension of the production line with a new type VA-xxxx-Z.
- Evaluation according to the newest standards.
- Evaluation according to the standard EN 14460:2018.
- Prolongation of certificate validity.

Pulse nozzle Myrlen® is designed to erode any stuck material by short burst (burst duration fixed at 0.25 s) of compressed air along the inner walls of storage bin or its discharging part. The required operating overpressure of compressed air is 0.60 MPa. Pulse nozzle is installed to the wall of storage bin with assembly sleeve or welding sleeve. The device is explosion pressure shock resistant up to 10 bar (ExPSR 10 bar according to EN 14460:2018).

The device meets the requirements for category 1D (EPL: Da). The certificate does not cover the electrical components of the device.

(16) Report Number.: 15/0129/1

(17) Specific Conditions of Use:

None.

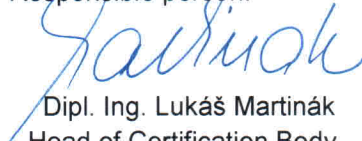
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
ZAK-19253	-	39	12/2019	Numerical simulation of assembly mounting bushings.
N-01-3	1	14	07/2020	Instructions for use - Myrlen® pulse nozzles - VA-51
4370200074	1	18	08/2020	Ignition hazard analysis
EX-T06-0100	-	1	2020	Drawing
EX-T10-0100	-	1	2016	Drawing
EX-T51-0100	-	1	2016	Drawing
T60-0100	-	1	2016	Drawing

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.08.2020

Page: 2/2

This certificate is granted subject to the general conditions of the FTZÚ, s.p.
This certificate may only be reproduced in its entirety and without any change, schedule included.