



## EU - Type Examination Certificate

(1)

(2)

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

(3) EU - Type Examination Certificate number:

**FTZÚ 20 ATEX 0046X**

(4) Product:

**Airsweep pneumatic nozzles, type VA-06, VA-12, VA-51, USDA-135, USDA-185**

(5) Manufacturer:

**Control Concepts, Inc.**

(6) Address:

**19 S. Main Street, Brooklyn, CT 06234, USA**

(7) This product and any 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 Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product 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.

The examination and test results are recorded in confidential Report number:

**20/0046 dated 23.10.2020**

(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**

(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) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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



**II 1/3 D Ex h IIC T135°C Da/Dc  
II 1/3 G Ex h IIC T4 Ga/Gc**

This certificate is valid till: **31.10.2025**

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 26.10.2020

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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) **EU - Type Examination Certificate No. FTZÚ 20 ATEX 0046X**

(15) Description of Product:

The airsweep pneumatic nozzles VA and USDA consists of the valve stem and the valve body, in which the stem is moving. This movement is provided by suppressed air and the movement back is provided by the compression spring. The assembly of the airsweep nozzle is made either of carbon steel or stainless steel. The mounting flange is used for installation of nozzle in the wall of hopper (tank or vessel). The piston head is installed in zone 20 or zone 0, the other parts are installed outside the hopper (tank or vessel) in Zone 22 resp. zone 2 or in non-hazardous area. The operating of the nozzle is controlled by solenoid valve which operates with pressure air in pulse mode. This solenoid valve is installed outside the hopper (tank or vessel) and it is acceptable to use only a solenoid valve which is type approved for zone 22 and 2 according to the actually valid standards.

**Technical specification:**

Pressure <sub>max</sub> :	VA-06	60 psi / 4.13 bar
	VA-12/-51	100 psi / 6.89 bar
	USDA-135	80 psi / 5.51 bar
	USDA-185	90 psi / 6.21 bar
Max. sequence of operation:	1 / sec.	
Maximum velocity of the valve stem:	0.02 m/s	

(16) Report Number.: 20/0046

(17) Specific Conditions of Use:

1. Ambient temperature range:  $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ .
2. The electrical devices installed together with the nozzle must have the type of protection corresponding with the defined zone.
3. The velocity of the valve stem mustn't exceed 1 m/s.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 26.10.2020

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**Physical-Technical Testing Institute**  
**Ostrava - Radvanice**

(13)

**Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 20 ATEX 0046X**

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
VA-06-NPT-TB	6	A	5/28/2020	Drawing
VA-06-NPT-TB-ST	6	A	5/28/2020	Drawing
VA-06-NPT-NFT	6	A	5/28/2020	Drawing
VA-06-NPT-NFT-ST	6	A	5/28/2020	Drawing
VA-06-TRI-TRI	6	A	5/28/2020	Drawing
VA-06-TRI-TRI-ST	6	A	5/28/2020	Drawing
VA-06-BSP-TB-ST	6	A	5/28/2020	Drawing
VA-06-BSP-TB	6	A	5/28/2020	Drawing
VA-06-BSP-NFT-ST	6	A	5/28/2020	Drawing
VA-06-BSP-NFT	6	A	5/28/2020	Drawing
VA-12-NPT-TB	6	A	5/28/2020	Drawing
VA-12-NPT-TB-ST	6	A	5/28/2020	Drawing
VA-12-BSP-TB	6	A	5/28/2020	Drawing
VA-12-BSP-TB-ST	6	A	5/28/2020	Drawing
VA-12-TRI-TRI	6	A	5/28/2020	Drawing
VA-12-TRI-TRI-ST	6	A	5/28/2020	Drawing
VA-51-NPT-NFT	6	A	5/28/2020	Drawing
VA-51-NPT-NFT-ST	6	A	5/28/2020	Drawing
VA-51-NPT-TB	6	A	5/28/2020	Drawing
VA-51-BSP-TB	6	A	5/28/2020	Drawing
VA-51-BSP-NFT-ST	6	A	5/28/2020	Drawing
VA-51-BSP-NFT	6	A	5/28/2020	Drawing
VA-135-ST-USDA	10	A	5/28/2020	Drawing
VA-135-USDA	10	A	5/28/2020	Drawing
VA-185-USDA	10	A	5/28/2020	Drawing
VA-185-ST-USDA	10	A	5/28/2020	Drawing
RA No.-002	1	--	5/2020	Risk analysis
RA No.-003	1	--	7/2020	Risk analysis
RA No.-004	1	--	7/2020	Risk analysis
--	20	--	23/10/2020	Manual for use

Responsible person:

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Head of Certification Body



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