



EN



# "MINPROEKT" EAD

## CERTIFICATE



- [1] EU-TYPE-EXAMINATION CERTIFICATE  
(Translation)
- [2] Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres –  
Directive 2014/34/EU
- [3] EU-type-examination Certificate Number: №: MP 19 ATEX 0144 X
- [4] Product (Equipment or protective system): "Local control station PVK-X -VEL x.x.x..."
- [5] Applicant: JSC „VELAN”
- [6] Address: 1 Velanovskaya str., Zelenokumsk, Stavropol Region, 357911 Russia
- [5] Manufacturer: JSC „VELAN”
- [6] Address: 1 Velanovskaya str., Zelenokumsk, Stavropol Region, 357911 Russia
- [7] This product (equipment or protective system) and any acceptable variation thereto are specified in  
details in the schedule to this certificate and the documents therein referred to.
- [8] Minproekt EAD, notified body No.1877 in accordance with Article 17 of the Council Directive 2014/34/EU  
of 26 February 2014, 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  
or protective system, intended for use in potentially explosive atmospheres, specified in Annex II of  
the Directive.  
The examination and test results are recorded in:  

Confidential Test report No. 09/16.03.2015
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0:2012; EN 60079-1:2014; EN 60079-31:2014.**
- [10] If the sign "X" is placed after the certificate number, it indicates that this equipment or protective system  
is subject to special conditions for safe use, specified in the schedule to this certificate.
- [11] This EU-type-examination Certificate relates only to the design and the construction of this  
specified equipment or protective system in accordance with Directive 2014/34/EU.  
This certificate does not cover the requirements of the Directive on the forthcoming procedures relating  
to the production process and the delivery of the product.
- [12] The marking of the equipment or protective system shall include the following:

housing made of aluminum alloy

housing made of zinc-aluminum alloy



II 2 G Ex d<sub>b</sub> IIB T6 Gb - 20°C ≤ T<sub>a</sub> ≤ +55°C



II 2 G Ex d<sub>b</sub> IIB T6 Gb - 20°C ≤ T<sub>a</sub> ≤ +55°C

II 2 D Ex t<sub>b</sub> IIIC T85°C Db IP66

II 2 D Ex t<sub>b</sub> IIIC T85°C Db IP66 I M2 Ex d<sub>b</sub> I Mb

This certificate does not authorize the manufacturer or his authorized representative to affix the CE mark followed by the identification number of the Notified Body as well as the marketing and / or use. This Supplement to Certificate MP 15 ATEX 0144 X extends its validity until 23.07.2024 if there is no change in the conditions under which it was issued.

Sofia, 23.07.2019

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Executive Director:  
/dipl. eng. St. Bosnev/



- [13] Schedule  
 [14] Certificate on "Module B: EU-type-examination" No. MP 19 ATEX 0144 X (Translation)  
 [15] Characteristics of the type, subject to the examination

### 1. Technical description

The local control stations, series type PVK-X-VEL x.x.x..., consist of a housing and a cover made of aluminum alloy AK-12 or zinc-aluminum alloy ZAM4-1. Different number of components are mounted on the lid, depending on the size: BKV x.x., rotary switch ExGN x.x. and light indicators IS d x.x. These components have ATEX certificates.

### 2. Technical data of the product.

#### 2.1. Type designation:

	PVK-VEL	X <sub>1</sub>	X <sub>2</sub>	X <sub>3</sub>	X <sub>4</sub>	X <sub>5</sub>	X <sub>6</sub>	X <sub>7</sub>	X <sub>8</sub>	X <sub>9</sub>	X <sub>10</sub>
- local control station for controlling	└─┘										
- Material of the enclosure A- aluminum alloy TS- zinc-aluminum alloy		└─┘									
- Indication of the dimensions			└─┘								
- Amount and type of the knobs "start" - "stop" according to the scheme: nPX-nSX, where n- amount of the knobs, P, S – type of the knobs; P - cylindrical "start", S- mushroom-type "stop", X-color of the knobs: R-red, G-green, Y-yellow, N-black, B-blue. In the absence of this element the index is not placed.				└─┘							
- A figure showing the type of protection 1 - type of protection Ex d I 2 - type of protection Ex d II B					└─┘						
- Amount and type of the switches ExGN according to the scheme: ExGN A (X) x n, where A - rated current (12,20,25), X - number of the switching circuit of the switch; n - number of the switches (if more than 1). In the absence of this element the index is not placed						└─┘					
- Amount and color of the indicators IS-d x.x... according to the scheme: nX (U), where n - the number of the indicators, X-color: R-red, G-green, Y-yellow, O-orange; B-blue, I-white; U- rated voltages (24,36,127,240)V							└─┘				
- Meter according to the scheme: P(X X/X): Where P - meter: A-ammeter, voltmeter B; X- characteristics of the meter								└─┘			
- Amount and type of terminals according to the scheme: A/nP, where A – rated current, n-number of the terminals, P – spring terminals „WAGO“. When screw terminals the symbol P is not placed									└─┘		
- Amount and type of the cable glands: (d) x n (X), where d - type of the entry, n - quantity X-placement on the housing: A-left, B-on, C-right, D-below										└─┘	
- Climatic performance: U5 for Ex d I; HL1-for Ex d IIB											└─┘

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## Schedule

Certificate on "Module B: EU-type-examination" No. MP 19 ATEX 0144 X (Translation)

**[15] Characteristics of the type, subject to the examination****2. Technical data of the product.**

## 2.2 Technical characteristics:

Name	Maximum number of the components			
	Knobs BKV	light indicators IS-d	Switches ExGN	
PVK-X-VEL1	1	2	-	-
PVK-X-VEL2	4	4	-	-
PVK-X-VEL3	6	6	2	2
PVK-X-VEL4	12	12	3	3
PVK-X-VEL5	16	24	8	4
PVK-X-VEL6	24	24	8	8
PVK-X-VEL7	24	24	8	8
PVK-X-VEL8	36	48	16	8
PVK-X-VEL9	36	48	16	8
PVK-X-VEL10	64	64	16	12
PVK-X-VEL11	64	64	16	12
PVK-X-VEL12	62	62	15	15
PVK-X-VEL13	62	62	15	15

- operating temperature range: HL1 -20°C + +55°C; U5 -5°C + +35°C;
- relative humidity of the environment: to (98±2)% at a temperature (35±2)°C while condensing moisture;
- operating voltage - from 127 V to 660V (AC) and from 110V to 440V (DC);
- rated current – max. 16A;
- IP code – IP66;

**3. Application field**

"Local control station PVK-X-VEL x.x.x...", is a remote control for stationary and mobile equipment in hazardous areas according to its explosive marking.

**[16] Test report № 09/16.03.2015 r.**

**[17] Special requirements for safety use – "local control station PVK-X-VEL x.x.x...", is designed for a working temperature range of -20°C ≤ T<sub>a</sub> ≤ +55°C, different from the standard.**

**[18] Essential requirements**

18.1. According to Directive 2014/34/EU (ATEX) and the manufacturer instructions, the product is not allowed for zone 0 and zone 20 and the areas of mines, dangerous in terms of methane gas (firedamp) and combustible coal dust (Category M1).

18.2. Other essential safety requirements are covered by the standards pointed in [9].

Sofia, 2019-07-23

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- [13] Schedule  
 [14] Certificate on "Module B: EU-type-examination" No. MP 19 ATEX 0144 X (Translation)  
 [19] List of the technical dossier parts

**19.1. Operating Instructions**

**19.2. Conceptual design and manufacturing drawings and schemes:**

**PVK-A-VEL1-HL1**

Drawings № № ПИНЮ.642254.050 СБ; ПИНЮ.731146.057; ПИНЮ.735341.061; specifications ПИНЮ.642254.050 – 2 sheets.

**PVK-A-VEL2-HL1**

Drawings № № ПИНЮ.642254.051 СБ; ПИНЮ.731146.058; ПИНЮ.735341.062; specifications ПИНЮ.642254.051 – 3 sheets.

**PVK-A-VEL3-HL1**

Drawings № № ПИНЮ.642254.052 СБ; ПИНЮ.642254.052 ЭЗ; ПИНЮ.731146.059; ПИНЮ.735341.063; specifications ПИНЮ.642254.052 – 3 sheets.

**PVK-A-VEL4-HL1**

Drawings № № ПИНЮ.642254.053 СБ; ПИНЮ.642254.053 ЭЗ; ПИНЮ.731146.060; ПИНЮ.735341.064; specifications ПИНЮ.642254.053 – 3 sheets.

**PVK-A-VEL5-HL1**

Drawings № № ПИНЮ.642254.054 СБ; ПИНЮ.642254.054 ЭЗ; ПИНЮ.731146.061; ПИНЮ.735341.065; specifications ПИНЮ.642254.054 – 3 sheets.

**PVK-A-VEL6-HL1**

Drawings № № ПИНЮ.642254.055 СБ; ПИНЮ.642254.055 ЭЗ; ПИНЮ.731146.062; ПИНЮ.735341.066- 01; specifications ПИНЮ.642254.055 – 4 sheets.

**PVK-A-VEL7-HL1**

Drawings № № ПИНЮ.642254.056 СБ; ПИНЮ.642254.056 ЭЗ; ПИНЮ.731146.063; ПИНЮ.735341.066; specifications ПИНЮ.642254.056 – 4 sheets.

**PVK-A-VEL8-HL1**

Drawings № № ПИНЮ.642254.057 СБ; ПИНЮ.642254.057 ЭЗ; ПИНЮ.731146.064; ПИНЮ.735341.067; specifications ПИНЮ.642254.057 – 4 sheets.

**PVK-A-VEL9-HL1**

Drawings № № ПИНЮ.642254.058 СБ; ПИНЮ.642254.058 ЭЗ; ПИНЮ.731146.065; ПИНЮ.735.341.067- 01; specifications ПИНЮ.642254.058 – 4 sheets.

**PVK-A-VEL10-HL1**

Drawings № № ПИНЮ.642254.059 СБ; ПИНЮ.642254.059 ЭЗ; ПИНЮ.731146.066; ПИНЮ.735341.068; specifications ПИНЮ.642254.059 – 4 sheets.

**PVK-A-VEL11-HL1**

Drawings № № ПИНЮ.642254.060 СБ; ПИНЮ.642254.060 ЭЗ; ПИНЮ.731146.067; ПИНЮ.735341.068- 01; specifications ПИНЮ.642254.060 – 4 sheets.

**PVK-A-VEL12-HL1**

Drawings № № ПИНЮ.642254.061 СБ; ПИНЮ.642254.061 ЭЗ; ПИНЮ.731146.068; ПИНЮ.735341.069-01; specifications ПИНЮ.642254.061 – 4 sheets.

**PVK-A-VEL13-HL1**

Drawings № № ПИНЮ.642254.062 СБ; ПИНЮ.642254.062 ЭЗ; ПИНЮ.731146.069; ПИНЮ.735341.069; specifications ПИНЮ.642254.062 – 4 sheets.

**19.3. Additional information**

Certificate of quality and chemical analysis of zinc aluminum alloy ЦАМ 4-1; Aluminum Alloy  
 Chemical Analysis Report

**19.4. Up to date operating instructions (2019)**

Sofia, 2019-07-23

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