

PVK series explosion-proof push-button stations with indicator lamps,
2ExedIICT6

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VELAN

Application

The stations are designed for remote control of electric drives of machines and devices in stationary plants and on mobile means of land and sea transport, where they are activated manually by an operator, as well as for signaling related to these electric drives or other electric devices.

The stations are designed for use in explosion hazard areas of productions, means of transportation and storage of products of chemical, oil refining, gas and other industries – stations with 2ExedIICT6 explosion protection marking.

Operating conditions

Ambient air temperatures: from -60°C to $+40^{\circ}\text{C}$, from -40°C to $+45^{\circ}\text{C}$; Elevation above sea level – not more than 4300 m;
ambient relative humidity – up to $98\pm 2\%$ at temperature $+35\pm 2^{\circ}\text{C}$ with moisture condensation; Ingress Protection – IP66

Design

PVK station consists of a case and a cover. Inside the station one or two push-button elements are installed (for one and two-push-button stations, respectively) with contact blocks of BKV type that ensures switching of electric circuits and a light indicator.

The Stop button actuator is mushroom-shaped and self-locking. The main actuating element of stations is a contact block. The contact blocks have one breaking (R) and one making (Z) contacts. Contact clamps of the block allow connecting two wires up to 2,5 mm² section each or one wire up to 4 mm² section.

Technical Specifications

Name of Specification	Manufacturing norm
	2ExedIICT6
Rated voltage, V: alternating current (50 or 60Hz) direct current rated current, A	up to 380 up to 220 16

Catalog Number Logic

PVK-X1 X2-X3-X4

PVK – explosion-proof button control station;

X1 – version according to the number and type of pushers: 1 or 2.

X2 – version with explosion protection marking: 5 - 2ExedIICT6.

X3 – version according to the indicator lamp type:

1X(I) where «X» – color: K – red, L – green, G – Yellow, R – orange, S – blue, B – white; (I) –LED lamps voltage

X4 – version according to the quantity of cable glands VK12-B1,5-ExellU-M18x1,5: 1 or 2.

Order formulation example:

PVK-OEAV-4.1-2PL-2SCh (without s/f)-1S-1CC(2NC)-2-1L(220)-1K(220)-A(E42700 0-250A/1A)-24/22-20/9P-12x2-25x1-(L-2BM-M25)x3(B)

Which stands for:

Multistage PVK station, two green buttons “Start”, two black buttons “Stop” without locking, one red button “Stop” with locking, one blue button “Stop” with 2NC contacts, explosion protection marking 1ExdIICT6, one green LED lamp and one red one for 220V, E42700 series amperemeter with 0-250A/1A scale, terminal block with 22 terminals screw, terminal block with 9 spring terminals for 20 A, two glands of VK12-ExdIU/ExdIICTU-M18x1,5 series and one gland of VK25-ExdIU/ExdIICTU-M42x2 series located below and three glands of VK-L-VEL2BM-M25x1,5-Exd series located above.



Overall and installation dimensions

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Overall, installation and connection dimensions of PVK type stations with indicator lamps and 2ExedIICT6 explosion protection marking

