

PVK-1, -2, -3 series explosion-proof push-button stations, RV ExdI, ExdI,
1ExdIAT6, 1ExdIICT6, 2ExedIICT6



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 the following conditions:

- in coal and slate shafts that have gas and/or dust explosion hazard – stations with RV ExdI explosion protection marking;
- in explosion hazard areas of productions, means of transportation and storage of products of chemical, oil refining, gas and other industries – stations with 1ExdIAT6, 1ExdIIBT6, 1ExdIICT6, explosion protection marking.

Operating conditions

Ambient temperature:

–60°C to +40°C; –40°C to +40°C; –5°C to +35°C; –30°C to +45°C;

–10°C to +45°C; +1°C to +35°C. Elevation above sea level – not more than 4300 m;

ambient relative humidity – up to 98±2% at temperature +35±2°C with moisture condensation;

Ingress Protection – IP65

Design

The explosion-proof metal enclosure of a PVK station consists of a case and a cover. Inside the enclosure, one, two or three contact blocks (for one, two or three-push-button stations, respectively) that ensure switching of electric circuits are installed on the cover.

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 blocks allow connecting two wires up to 2,5 mm² section each or one wire up to 4 mm² section.

Weight of the PVK-2XXX stations is not more than 1,8 kg

Technical Specifications

Name of Specification	Manufacturing norm	
	RV ExdI	1ExdIIBT6, 1ExdIIBT6, 1ExdIIBT6
Rated voltage, V: AC (50 or 60 Hz)	up to 127	up to 660
Rated voltage, V: AC (50 or 60 Hz)	up to 110	up to 440
DC		
Rated current, A	16	16

Scope of Delivery

Scope of delivery includes	
station	-1
operation manual	-1
passport	-1

Catalog Number Logic

PVK-X1 X2

PVK – explosion-proof button control station;

X1 – version according to the number of pushers: 1 or 2 or 3.

X2 – version with explosion protection marking: 1) RV ExdI; 2) 1ExdIIBT6; 3) 1ExdIIBT6; 4) 2ExedIIBT6; 6) 1ExdIIBT6 .

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)

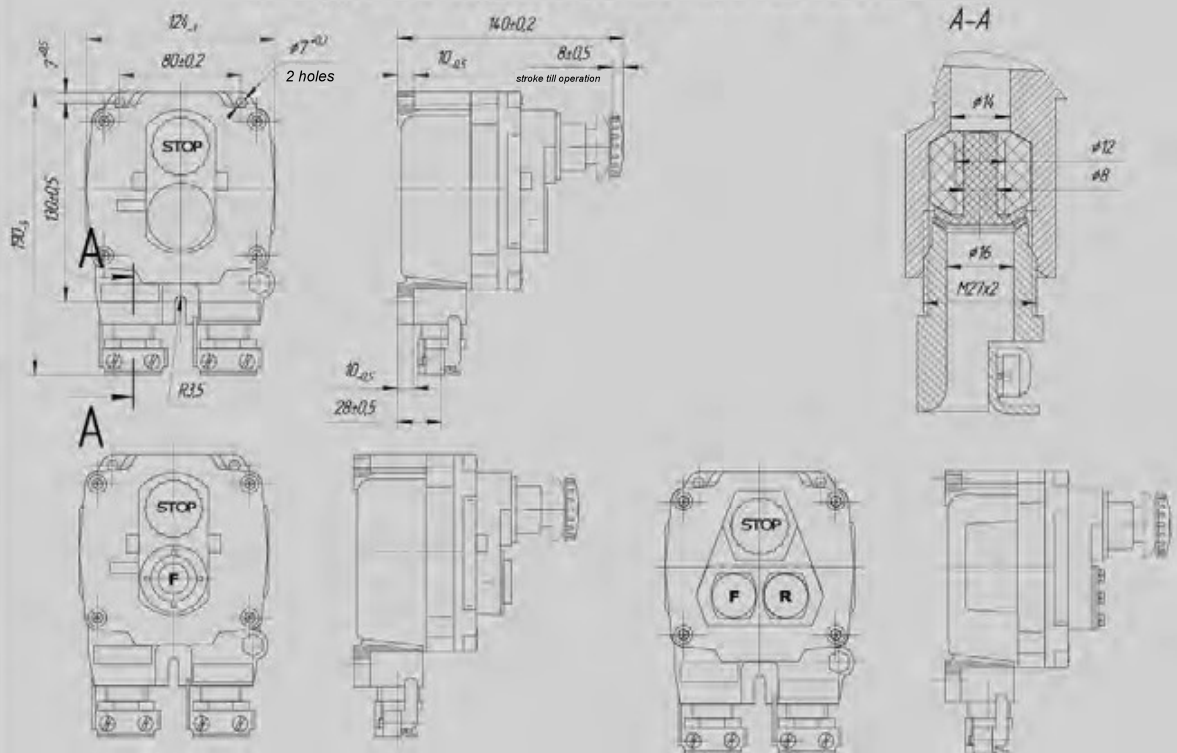
Which stands for:

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 1ExdIIBT6, 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/ExdIIBT6-M18x1,5 series and one gland of VK25-ExdIU/ExdIIBT6-M42x2 series located below and three glands of VK-L-VEL2BM-M25x1,5-Exd series located above.

VELAN

PVK-1, PVK-2, PVK-3 Overall and installation dimensions

PVK-1,2,3 explosion-proof button control stations.



Electric circuit of the button

