



EV 5N/2.5, EV 5N/10 – Electro-pneumatic Valves

Certificate: ATEX



EV 5N/ 2.5



EV 5N/10

Use:

An EV5N electromagnetic non-explosive valve is used for remote control, i.e. alternating filling and discharging a space with pressurized air e.g. at pneumatic cylinders, drives, etc.

The valve is designed for utilisation in areas with a methane explosion hazard in the M2 atmospheric conditions according ČSN EN 1127-2 as model Ex d I.

Description:

The valve is an assembly unit consisting of a solenoid, non-explosive bushing and a three-way valve with the inner diameter of Js 2.5. Pressurized air can be connected to the EV5N/2.5 model by M10x1 screwed connection. A three-way 3VP10d-Js 10 distributor with pneumatic control by means of an auxiliary pressure tube circuit is connected to the Ks 2.5 three-way valve at the EV5N/10 model.

The solenoid is situated inside a cylindrical body of the non-explosive case in a separate space which is separated by a flange from the terminal area for connecting the external power line. The flange is also a grommet for 2 conductors connecting the solenoid coil to the terminal block. The solenoid can be designed for various voltages from 24V to 500 V/ 50 Hz according to the customer's need.

Technical parameters:

Model	I M2 Ex d I
Supply voltage	24 V, 230 V, 500 V / AC
Current consumption (permanent)	ca 30 VA
Nominal air pressure	0.6 MPa
Minimum air pressure	0.2 Mpa
Maximum reset frequency	10 cycles / hour
Operating position	vertical, maximum deflection 15°
Connected conductor cross-section	2.5 mm ²
Reliability	2.6 x 10 ⁵ switches-on
Relative humidity	up to 95%
Protection	IP 54
Dimensions	cca 250 x 300 mm
Weight	7.4 kg

The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.