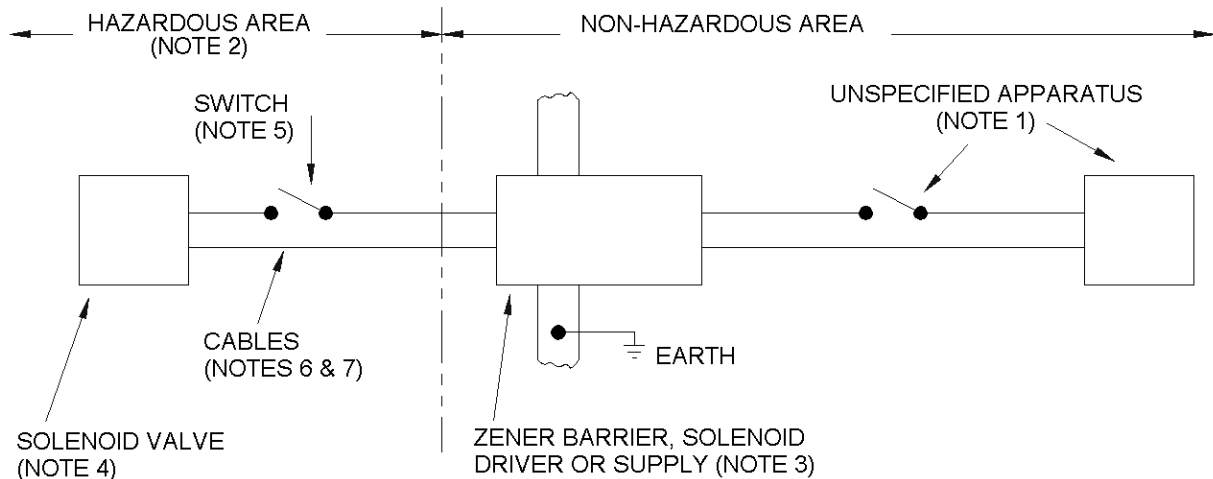


Intrinsic Safety Information

SOLENOID VALVE CONTROL SYSTEM



NOTE 1

This apparatus is unspecified except that it must not contain under normal or abnormal conditions a source of potential with respect to earth in excess of 250V R.M.S. or 250V DC.

NOTE 2

The electrical circuit in the Hazardous area must be capable of withstanding an AC test voltage of 500V R.M.S. to earth of frame of the apparatus for one minute.

NOTE 3

Any single channel or single channel of a multiple channel Shunt Zener Diode Safety Barrier, Solenoid Driver or supply certified by any EU notified certification body to [Exia] IIC, whose output voltage (U_z , $U_{max:out}$ or U_o) does not exceed 28V and whose output current ($I_{max:out}$ or I_o) is limited by resistance 'R' such that the output voltage divided by 'R' does not exceed 110mA, or whose output voltage (U_z , $U_{max:out}$ or U_o) does not exceed 25.5V and whose output current ($I_{max:out}$ or I_o) is limited by resistance 'R' such that the output voltage divided by 'R' does not exceed 147mA.

NOTE 4

Pneumatrol solenoid valve covered by Certificate of Conformity BAS. No. BAS01ATEX1391 to category Exia IIC T6.

NOTE 5

Switch must be selected and installed to meet the requirements of clauses 5.4 of EN60079-11.

NOTE 6

The cable maybe twin pair, or a pair contained in a type A, or type B multicore cable (as defined in clause 5.3 of EN60079-25), provided that the peak voltage of any circuit contained within the multicore does not exceed 60 volts.

NOTE 7

The capacitance and inductance to resistance ratio of the hazardous area cables must not exceed the values shown below.

Group	Capacitance in μF	Inductance in mH	OR	L/R Ratio in $\mu\text{H}/\text{ohm}$
IIC	0.083	1.4		39
IIB	0.65	7.2		155
IIA	2.1	14.4		283