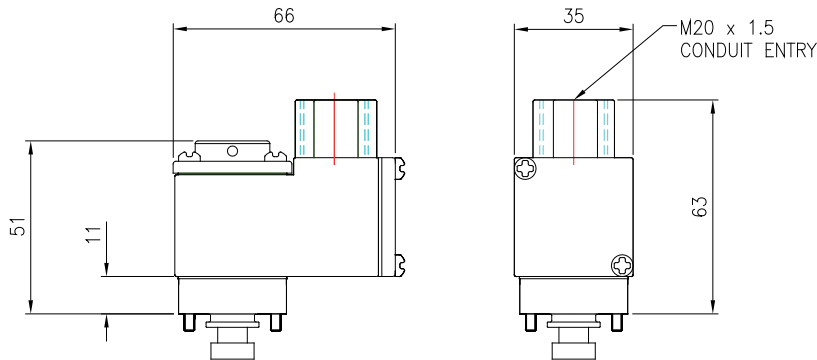


DIMENSIONS (mm)

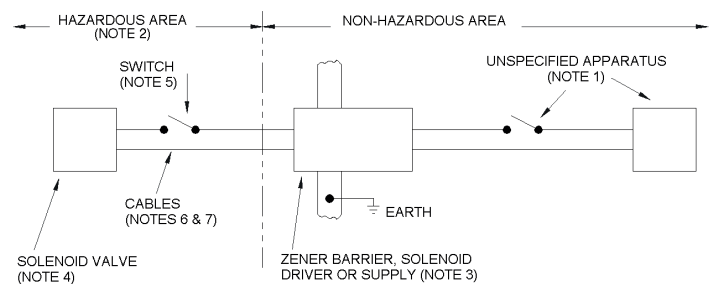


MATERIAL SPECIFICATIONS

STANDARD

| | |
|-----------------|---|
| Coil Case | Zinc Alloy Epoxy Powder Coated |
| Armature | Magnetic Solenoid Quality Stainless Steel |
| Springs | Stainless Steel |
| Seals and Seats | Viton |
| Coil Former | 30% Glass Filled PBT |
| Magnetic Wire | Class H Coated Copper |

SOLENOID VALVE CONTROL SYSTEM



SOLENOID SPECIFICATIONS

| Coil Type | DC Solenoid Coil |
|-----------------------|-------------------------------------|
| Nominal Voltage | 24 |
| Voltage Tolerance | -10% |
| Ambient Temperature | -40 to +65°C |
| Duty Cycle | 100% |
| Degree Of Protection | IP65 |
| Electrical Connection | Junction Box with M20 Conduit Entry |
| Power Consumption | 0.4W or 0.27W |
| Pressure Range | 0 - 10 Bar |
| Resistance | 370 Ohms or 2100 Ohms |
| Inductance (Apparent) | Zero |
| Capacitance | Zero |

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 in table 1.

INTRINSICALLY SAFE SUPPLY SPECIFICATION

| | |
|-----------|--------|
| Umax : in | 31 Vdc |
| Imax : | 0.67 A |
| Wmax : in | 2.98 W |

TABLE 1

| GROUP | CAPACITANCE (µF) | INDUCTANCE (mH) | L/R RATIO (µH/ohm) |
|-------|------------------|-----------------|--------------------|
| IIC | 0.083 | 1.4 | 39 |
| IIB | 0.65 | 7.2 | 155 |
| IIA | 2.1 | 14.4 | 283 |

Certificate of Conformity BAS No. Ex 01E2392