

PRODUCT NAME
Direct Acting Intrinsic Safe Solenoid Valve
DESCRIPTION OF THE PRODUCT
 ALV110F1C7 series direct action Intrinsic safe solenoid valve can be used in hazardous area (Class1 Zone 0) which has low starting voltage, sensitive action, low power consumption and low temperature working performance. this kind of direct action valve can not only directly control the pneumatic actuator, but also can be directly installed and connected with a variety of pneumatic valves to form a high-performance pilot solenoid valve.



APPROVED BY



Coil Specification (C7)

Coil Enclosure	Die-casting aluminum + Epoxy coated
Wiring Connector	M20-1.5 or 1/2"NPT, Terminal Strip
Operating Voltage	12~24VDC
Electric current	34~67mA (0.41~1.6W)
Insulation Protection	H Class
Insulated voltage	1000V
Duty factor	100% ED
Area Classification	(Class 1 Zone 0 AEx ia IIC T6 Gb)

BODY TECHNICAL DATA

Body	Extruded aluminum + anodized coated
Seal	Buna N
Fasteners	Stainless steel
Function	3/2 direct acting, spring return, NC,
Manual Override	on the body
Air Ports	G1/4" (optional NPT)
Flow rate	29.1L/M, CV=0.03 (0.8mm)
Mounting	Namur interface
Working Medium	≤ 40µm filtered and dried air (0~8 bar)
Working Temp.	-20°C~60°C
Weather Proof	IP67

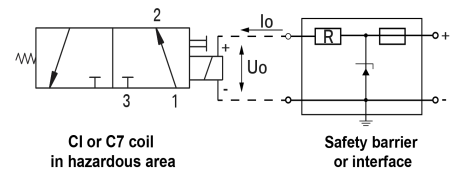
Supply Specifications for Coil of C7

U max : in	30VDC
I max : in	650mA
W max : in	2980mW
C max : in	0
L max : in	0

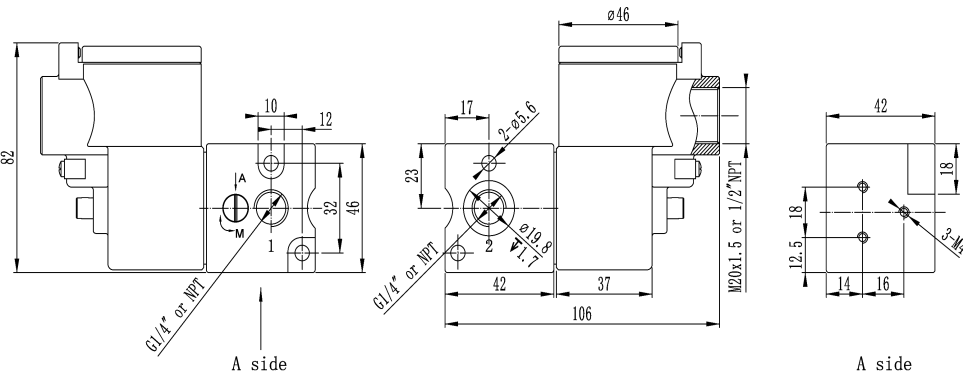
Wiring connection instructions

As shown above, the coil C7 must be connected individually to an approved safety barrier. Placed in safe zone, these safety barriers can be used to supply ATEX pilot coil C7 installed in a hazardous zone. The electrical connection between the safety barrier(or interface) and the pilot coil C7 can be made using ordinary wires or cables. The inductance of the connecting line between the safety barrier and the pilot coil C7 must be less than 0.5mH.

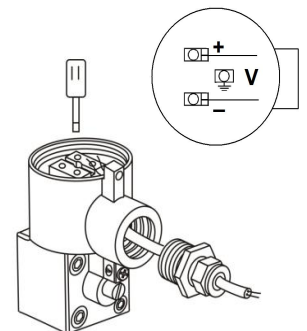
Wiring with barrier



DIMENSION AND DRAWING



Wiring Operating



*For continuous improvement of the product, we reserve the right to alter the dimensions, technical data in this data sheet.