# Allied Data Sheet<sup>\*</sup>

## Product ID ALV110F1C7

### PRODUCT NAME

### Direct Acting Intrinsical Safe Solenoid Valve DESCRIPTION OF THE PRODUCT

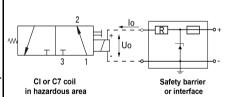
ALV110F1C7 series direct action Intrinsical safe solenoid valve can be used in hazardous area (Class 1 Zone 0) which has low starting voltage, sensitive action, low power consumption and low temperature working performance. this kind of direct action valve can not only directly control the pneumatic actuator, but also can be directly installed and connected with a variety of pneumatic valves to form a high-performance pilot solenoid valve.

#### MODEL NO. ALV110F1C7



APPROVED BY		Coil Specification (C7)	
ATEX		Coil Enclosure	Die-casting aluminum + Epoxy coated
		Wiring Connector	M20-1.5 or 1/2"NPT, Terminal Strip
BODY TECHNICAL DATA		Operating Voltage	12.5~24VDC( 0.25~1.0W) at -20∼60℃
Body	Extruded aluminum + anodized coated	Operating voltage	13.5~24VDC (0.31~1.0W) at -40 $\sim$ 60 $^\circ \! \mathbb{C}$
Seal	Buna N	Insulation Protection	H Class
Fasteners	Stainless steel	Insulated voltage	1000V
Function	3/2 direct acting, spring return, NC	Duty factor	100% ED
Manual Override	on the body	Area Classification	Ex ia IIC T6 Ga, Ex ia IIIC T85°C Db
Air Ports	G1/4" or NPT	Supply Spercifications for Coil of C7	
Flow rate	29.1L/M, CV=0.03 (0.8mm)	U max : in	30VDC
Mounting	Namur interface	I max : in	650mA
Working Medium	≤ 40µm filtered and dried air (0 $\sim$ 8 bar)	W max : in	2980mW
Working Temp.	-20℃~60℃ (optional: -40℃~60℃ )	C max : in	0
Weather Proof	IP67	L max : in	0
Wiring connection instructions			Wiring with barrier

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.



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

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