

PRODUCT NAME MODEL NO. ALV610F3-QC6F

Pilot acting Intrinsic Safe Solenoid Valve

DESCRIPTION OF THE PRODUCT

Based on NAMUR standard, the same stainless steel NAMUR valve can be adapted for 3/2 NC or 5/2 functions. Armed with Ex ia IIC T6 Gb thermoplastic enclosure coil, this intrinsic safe Namur solenoid valve is available for the operation of double acting and spring return pneumatic devices located in corrosive and hazardous (Class 1 Zone 0) atmospheres.



APPROVED BY Coil Specification: QC6F (ALV110Q1C6F)



IP67

Coil Enclosure	Thermoplastic
Cable connection	Flying leads (cable length 1 m and other lengths on request)

BODY TECHNICAL DATA

Body	Stainless Steel (316)
Seal	Buna N
Fasteners	Stainless steel
Function	5/2 and 3/2NC, Monostable
Manual Override	Manual screw on the body
Air Ports	G1/4" or NPT

Operating Voltage & Electric current	13.0~24VDC, 22~42mA at -20°C~60°C
	13.3~24VDC, 22~67mA at -40°C~60°C
Insulation Protection	H Class
Insulated voltage	1000V
Duty factor	100% ED
Area Classification	Ex ia IIC T6 Ga, Ex ia IIIC T85°C Db

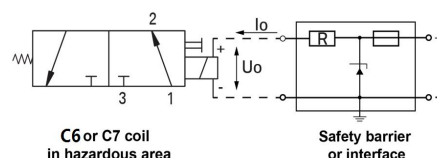
Supply Specifications for Coil of C6

Flow rate	CV =1.1 (19.63mm ²)	U max : in	30VDC
Mounting	24×32 Namur	I max : in	650mA
Working Medium	≤ 40µm filtered and dried air	W max : in	2980mW
Working Temp.	-20°C~60°C (optional: -40°C~60°C)	C max : in	0
Weather Proof	IP67	L max : in	0

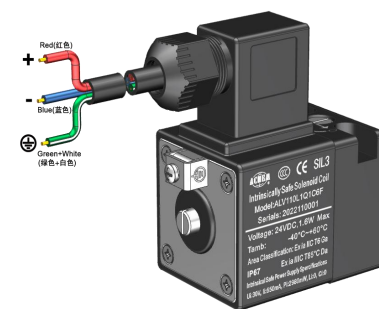
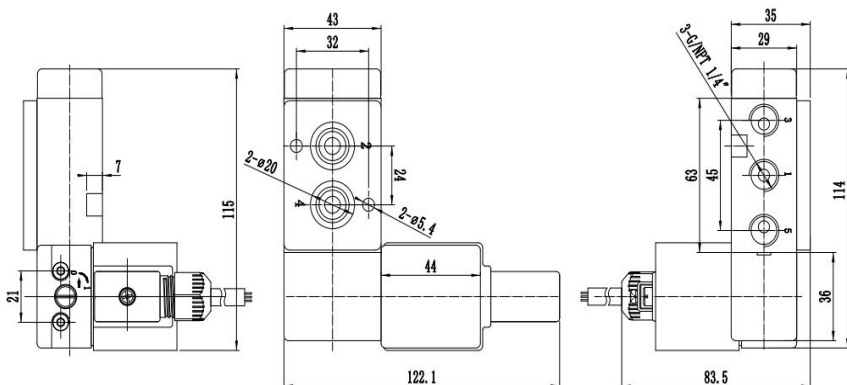
Wiring connection instructions

The electrical connection between the safety barrier placed in safe zone and the C6 series intrinsic safe solenoid valve installed in a hazardous zone can be made using the flying leads cable (cable length 1 m and other lengths on request). Note that the solenoid valve has positive and negative wiring requirements, the red line is positive, the blue line is negative, and the green and white double color line is grounding. Refer to the bottom-right figure please.

Wiring with barrier



DIMENSION AND DRAWING



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