

# **VCT9367**

IEĈEX (Ex)

## Solenoid Valve - 2/2 Twin - Block/Bleed

### **Benefits & Features**

- Water, gas, high pressure gases, light oils
- Media temperature: -10°C to +90°C
- Two way normally closed
- Ideal for high pressure applications where the media is trapped
- Brass or 316 Stainless Steel bodies
- Safe Area, ATEX EExd IIB or IIC
- New IECEX versions

### Specification

Configuration Port Sizes Orifice	Double Pilot operated piston design 1/4" BSP or NPT 0.8mm
Kv	0.2
Body	Brass or 316 Stainless Steel
Media	Air, water, liquids etc. Subject to material compatibility
Pressure ranges	0 - 100 Bar (AC or DC)
Seals	NBR, VITON



				Port			Min . /Max. Operating Differential Pressures. BAR.			
		Size BSP or NPT	Orifice mm	Body Rating	Min.	Normally Closed Maximum		KV Flow Factor L/min.		
		Α	Е					AC	DC	
VCT9367		0	Ρ	1/4"	0.8	100	0.2	100	100	0.2

#### **Order Codes**

Α	Seal Material	D	Protection			
0	NBR	P IP65				
1	VITON	в	EExd IIB			
		С	EExd IIC			
		C/LT	EExd IIC (-60 to +60°C amb.)			
		Н	EExd IIB IECEX			
		т	EExd IIC IECEX			

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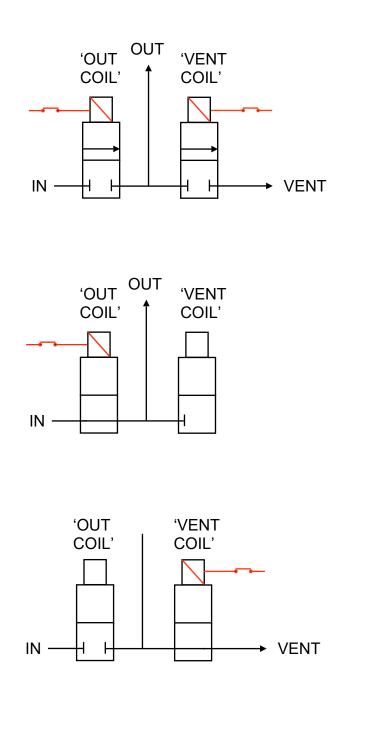


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### **Function**



Normal Flow Circuit, both coils energised

- Solenoid 'OUT' is energised
- Media Flows through 'OUT'
- Solenoid 'Vent' is closed

- Solenoid OUT is de-energised
- Media Is trapped between 'IN' and 'OUT' solenoid
- Solenoid 'Vent' is energised.
- 'OUT' line is discharged through 'Vent' solenoid

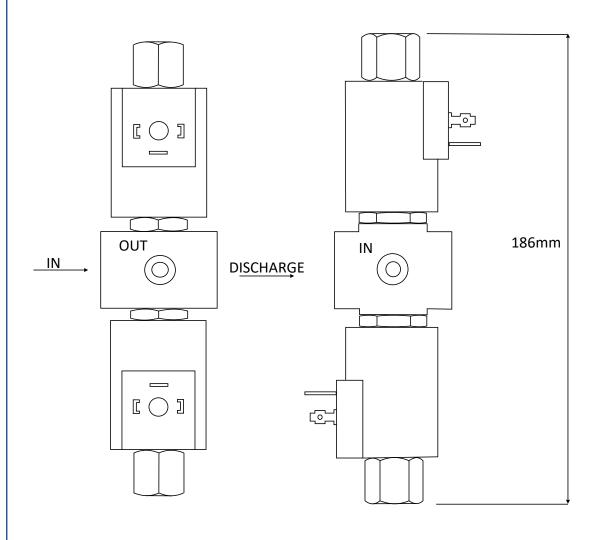




IEĈĒx Ex

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Dimensions

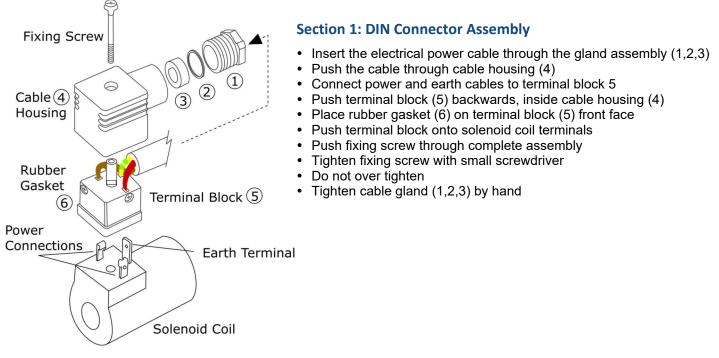




### IP65 SAFE AREA INSTALLATION & MAINTENANCE

SAFE AREA SOLENOID VALVES DIN 43650-A (Large) DIN 43650-B (Small)

DIN electrical socket connectors to protect solenoid coil terminals and wiring.



### Section 2: How to install Solenoid Valves

Solenoid Valves can normally be installed and operate in any orientation. However, certain models are designed to operate in horizontal installations. Please contact Red Dragon for further information.

#### Installation Procedure:

Check that the Solenoid Valve is the correct product ordered for the application:

- Isolate the site electrical power supply
- Isolate the site media supply (dependant on the application)...air, water, steam etc. Leave until cool/safe.
- Insert the valve onto the pipe, ensuring that the flow direction is observed.....IN for incoming media, or an arrow stamped on the valve body.
- Ensure that the pipe connections are free from burrs or loose pipe thread tape
- Tighten all pipe joints
- · Connect electrical power supply via DIN electrical socket connector, as detailed in section 1
- · Ensure that DIN connector is properly connected to solenoid coil and the gasket is installed correctly
- · Apply media pressure and check for leaks

### Section 3: Maintenance Procedure for Solenoid Valves

In the unlikely event of a valve malfunction, or routine maintenance, follow these instructions:

- Isolate the site electrical power supply
- Isolate the site media supply (dependant on the application)...air, water, steam etc.
- · Remove the solenoid coil by unscrewing the coil retention nut anti-clockwise
- · Remove the coil tube stem by unscrewing anti-clockwise
- Carefully remove the plunger assembly (inside the coil stem)
- Check the plunger assembly for damage or worn seals
- Check the face inside the coil stem for foreign particles that could prevent correct operation
- For Pilot Diaphragm Solenoid Valves: remove the top cover housing and check the diaphragm for damage and blocked transfer port.
- Re-assemble the valve in reverse order, ensuring that all parts are cleaned and assembled correctly

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### Solenoid Wiring IP67 Housing SAFE AREA & EEXD

## **Electrical Wiring - IP67 Housing**

### **Installation Procedures & Methods**



Attention: For safety purposes, always ensure that the power supply is disconnected. After de-energising, allow 15 minutes before continuing the following procedures

