



# Solenoid Valve - 5/2 - 3/8" & 1/2" - Manual Reset

# **Benefits & Features**

- Five way manual reset, E type operation: Energise to close
- Safety device for applications actuator protection
- Changes from rest to work condition with manual control
- Brass or 316 Stainless Steel bodies
- IP65, IP67, EExd IIB, EExd IIC versions
- Ex-d IIC -60°C to +60°C ambient versions
- ATEX, EAC Ex (CU TR 012) and IECex, Ex-d approved

#### Specification

Configuration	Direct Acting
Port Sizes	3/8" or 1/2" BSP/NPT
Orifice	11.0mm
Kv	see table below
Body	Brass or 316 Stainless Steel
Media	Air & gaseous media only. Subject to material compatibility
Pressure ranges	See individual data tables below
Seal options	NBR -10 to +70°C   VITON (-10 to +90°C)   HNBR -45 to +90°C

#### **Technical Data**

MODEL								Nom.	Orifice	Min . /Max. Operating Differential Pres- sures.			Function	KV Flow Factor L/min.
								Max. Bar	mm	Min. BAR	Maximum BAR			
	A B C D		Е				DAR	AC	DC					
G63		11					3/8"	16	11.0	0	14	14	D	30
G63		11					1/2"	16	11.0	0	14	14	D	30

### **Order Codes**

Α	Body	в	Port			B Port		С	Seals (fluid temp. min / max)	D Protection		E	Options
т	Brass	E	3/8" BSP	т	3/8" NPT	0	0 NBR (-10°C to + 70°C)		IP65 Safe Area				
1	316 Stainless steel	F	1/2" BSP	G	1/2" NPT	1	VITON (-10°C to + 90°C)	S	IP67 Safe Area				
					7 HNBR (-45°C to + 90°C) B II 1/2 GD Ex-d IIB T6 (-20 to +40°C)								
								с	II 1/2 GD Ex-d IIC T6 (-20 to +40°C)				
							Ì	/LT	II 1/2 GD Ex-d IIC T6 (-60 to +60°C)				
							Ì	н	Ex-d c IIB IP67 IECEX				
							Ì	т	Ex-d c IIC IP67 IECEX				
								R	Ex-d IIC EAC Ex				

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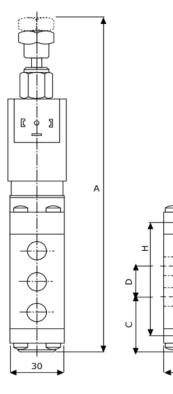


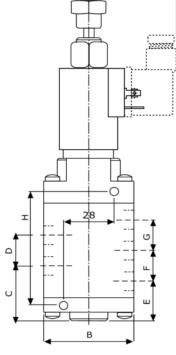
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# Solenoid Valve - 5/2 - 3/8" & 1/2" - Manual Reset Weights & Dimensions

#### Safe Area. IP65

Port	Weight Kg	Dimensions mm							
		А	В	С	D	Е	F	G	н
3/8"	1.1	219	60	41	30	26	30	30	96
1⁄2"	1.5	219	60	41	30	26	30	30	96





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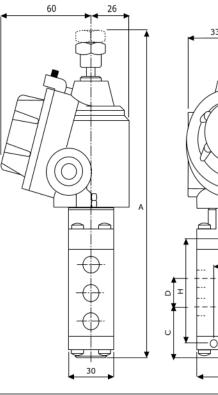
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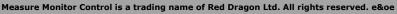
В

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#### Hazardous Area & Safe Area IP67

Port	Weight Kg	Dimensions mm								
		А	В	С	D	Е	F	G	н	
3/8"	1.1	219	60	41	30	26	30	30	96	
1⁄2"	1.5	219	60	41	30	26	30	30	96	







### Solenoid Wiring **IP67 Housing SAFE AREA & EEXD**

# **Electrical Wiring - IP67 Housing**

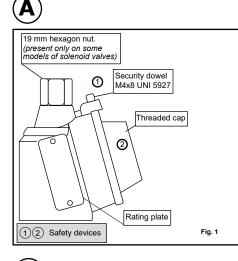
# **Installation Procedures & Methods**

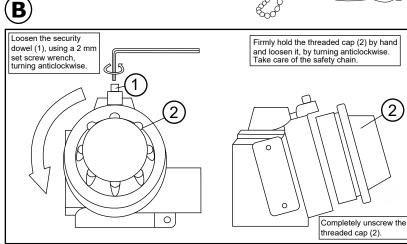


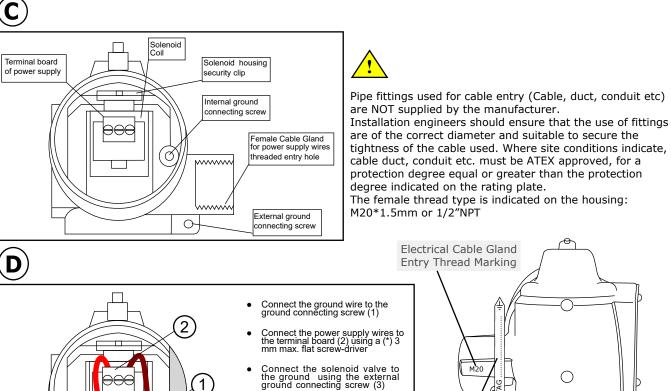
Attention: For safety purposes, always ensure that the power supply is disconnected. After de-energising, allow 15 minutes before continuing the following procedures



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Entry Thread Marking M20 Ο Earth Tag. Can be customised with Tag number, part

number etc.

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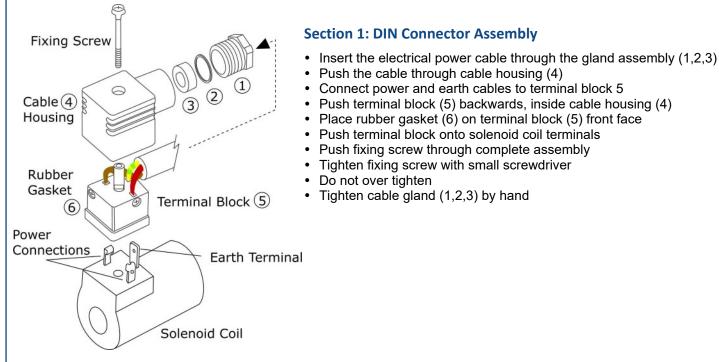
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# IP65 SAFE AREA INSTALLATION & MAINTENANCE

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