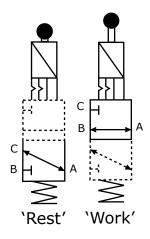




Solenoid Valve - 3/2 - 1/4" - Manual Reset - Energise to close

Benefits & Features

- Three way 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
- Special model with position pin for position feedback applications



Operation

F series three way manual reset solenoid valves are normally used as safety pilot devices for single-acting actuators. The F series manual reset solenoid valves can only change from 'Reset' to 'Work' condition by operating the latching device manually. **'E' Type Operation:**

Spool of the valve is manually latched to the 'work' condition with the coil de-energised. Energising the coil will unlatch the spool and the valve will return to the 'rest' position.



Technical Data

							Port Size	Nominal			/lax. Ope rential Pr sures.			κv
							BSP or NPT	Maximum Bar	Orifice mm	Min. BAR	Maximum BAR		Function	Flow Factor L/min.
	A		в	С	D	Е					AC	DC		
F53		70					1⁄4"	16	7.0	0	14	14	E	12

Special model with protruding pin for position feedback applications

Order Codes

A	Body	в	Port		С	Seals (fluid temp. min / max)	D	Protection	ш	Options	
т	Brass	С	1/4" BSP	D	1/4" NPT	0	NBR (-10°C to + 70°C)	Р	IP65 Safe Area	Y	Position Pin
Т	316 Stainless steel					1	VITON (-10°C to + 90°C)	S	IP67 Safe Area		
						7	HNBR (-45°C to + 90°C)	в	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)		
								/LT	II 1/2 GD Ex-d IIC T6 (-60 to +60°C)		
								н	Ex-d c IIB IP67 IECEX		
								т	Ex-d c IIC IP67 IECEX		
								R	Ex-d IIC EAC Ex		

Measure Monitor Control is a trading name of Red Dragon Ltd. All rights reserved. e&oe



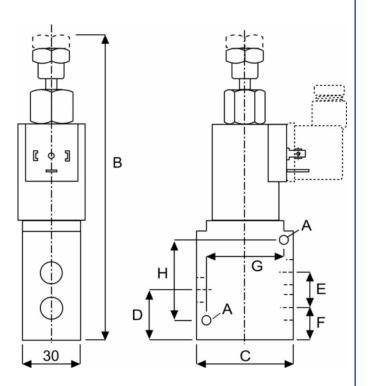


Solenoid Valve - 3/2 - 1/4" - Manual Reset

Weights & Dimensions

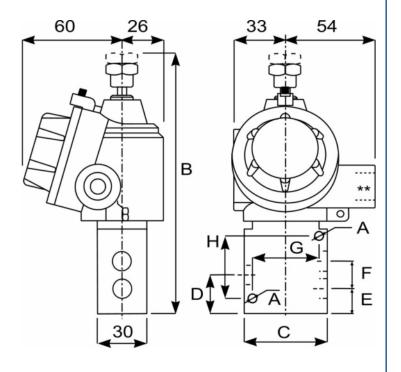
Safe Area. IP65

Weight	Dimensions mm										
Kġ	Α	В	С	D	Е	F	G	н			
0.9	4.5	168	50	25.5	15.5	20	40	41			



Hazardous Area & Safe Area IP67

Weight	Dimensions mm										
Kġ	Α	В	С	D	E	F	G	н			
1.2	4.5	178	50	25.5	15.5	20	40	41			



Measure Monitor Control is a trading name of Red Dragon Ltd. All rights reserved. e&oe



Solenoid Wiring IP67 Housing SAFE AREA & EEXD

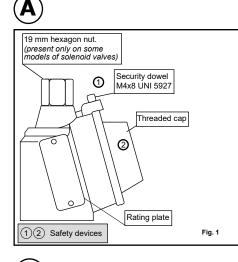
Electrical Wiring - IP67 Housing

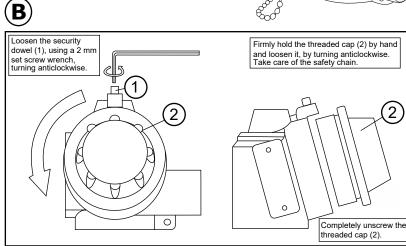
Installation Procedures & Methods

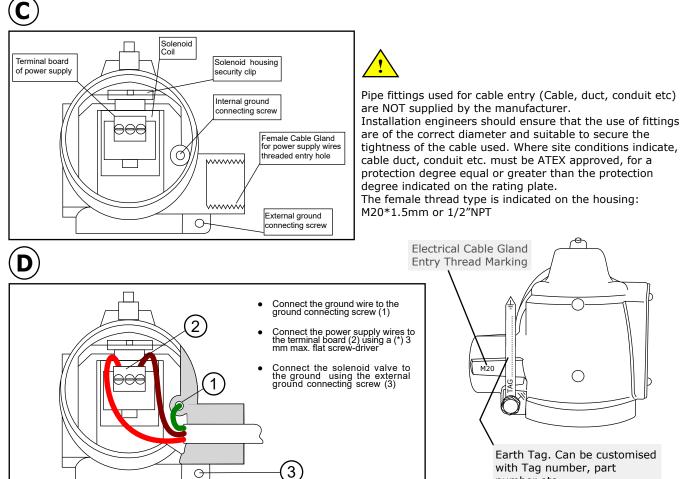


Attention: For safety purposes, always ensure that the power supply is disconnected. After de-energising, allow 15 minutes before continuing the following procedures









Earth Tag. Can be customised with Tag number, part number etc.

С

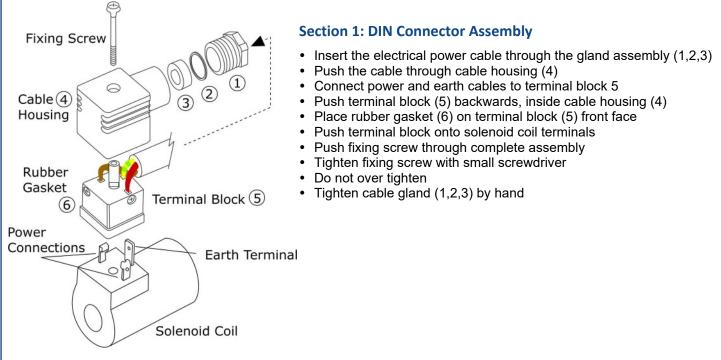
Measure Monitor Control is a trading name of Red Dragon Ltd. All rights reserved. e&oe



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