





Solenoid Valve - 5/2 - 5/3. 3/2 NC/NO NAMUR

Benefits & Features

- Pilot operated NAMUR interface for high dependency applications
- Convert from 5/2 to 5/3, or 3/2 normally closed to 3/2 normally open
- Suitable for gaseous media only
- Manual override option
- IP65, EExd IIB or 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 Pilot operated 1/4" BSP & NPT **Port Sizes** Orifice see table below Κv see table below

Body Brass or 316 Stainless Steel

Media Air, gases etc. Subject to material compatibility

Pressure ranges See individual data tables below Seals NBR, VITON, EPDM, HNBR

Voltage 12, 24, 48, 110, 220, 230 AC/DC. Other voltages upon request



Technical Data

							Port			Min . / Differe	KV		
						Size BSP or NPT	Body Rating	Orifice mm	Min. BAR	Maximum BAR		Flow Factor L/min.	
	A		В	С	D	Е					AC	DC	
D50		70					1/4"	10	7.0	3	10	10	12.5



with brass body



IP65 safe area version with brass body



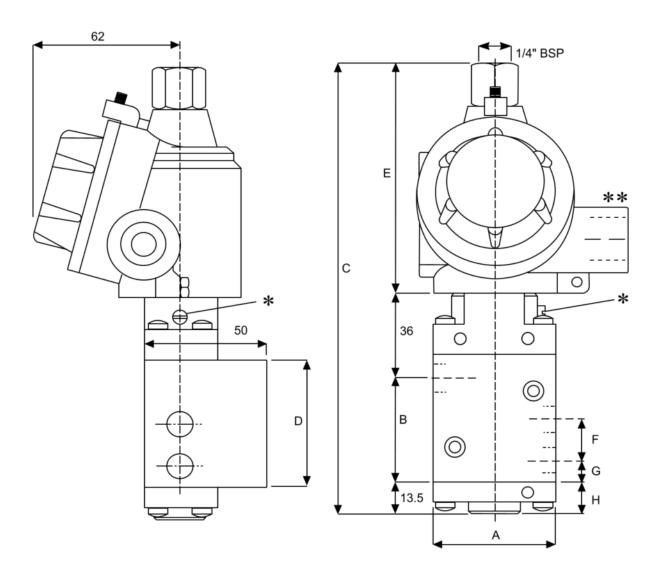
EExd version with Niploy Plated body



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Weights & Dimensions

Weight	Dimensions mm											
Kg	Α	В	С	D	E	F	G	н				
1.2	50	45.5	193	55	98	18	9.5	13.5				



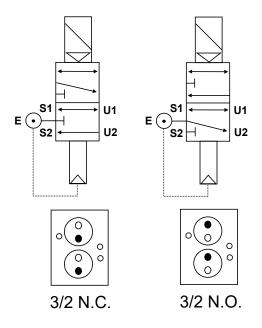


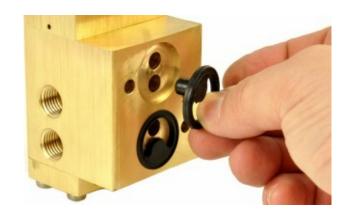
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Configuration

Mechanical Characteristics:

- NAMUR mount Tree Way or Five Way
- Single Solenoid Valve. Pilot Operated. Two Positions
- Monostable function
- Valve is converted from 3 Way to 5 Way by changing sealing plug on NAMUR Face
- Suitable for gaseous media
- Model for liquid media available upon request
- Body materials are Brass or Nickel Plated Brass
- Stainless Steel internal moving parts
- Solenoid can be rotated 360°
- Valve will operate in any position





• CLOSE

OPEN

Order Codes

Α	Body	В	Port			С	Seals (fluid temp. min / max)	D	Protection	E	Options	
										1		
Т	Brass	С	1/4" BSP	D	1/4" NPT	0	NBR (-10°C to + 70°C)	Р	IP65	х	Manual Override	
1	316 Stainless steel *					1	VITON (-10°C to + 90°C)	S	IP67			
N	Niploy plated					6	EPDM (-10°C to + 90°C)	В	II 1/2 GD Ex-d IIB T6 (-20 to +40°C)			
						7	HNBR (-45°C to + 90°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)			
	Special Order- lease ask us							н	Ex-d c IIB IP67 IECEX			
	icase ask as							Т	Ex-d c IIC IP67 IECEX			
									Ex-d IIC EAC Ex			



Electrical Wiring - IP67 Housing

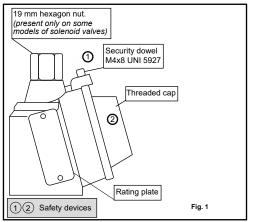
Installation Procedures & Methods



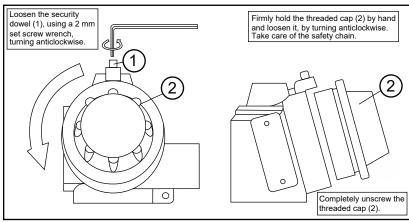
Attention: For safety purposes, always ensure that the power supply is disconnected. After de-energising, allow 15 minutes before continuing the following procedures



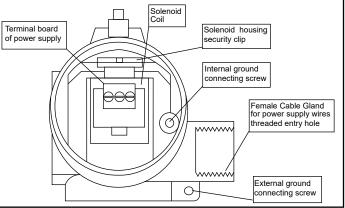










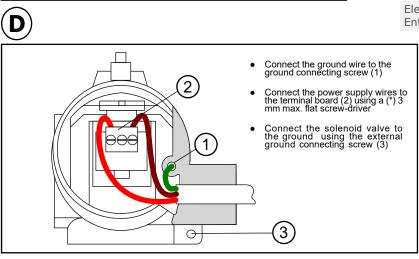


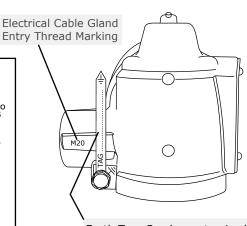


Pipe fittings used for cable entry (Cable, duct, conduit etc) are NOT supplied by the manufacturer.

Installation engineers should ensure that the use of fittings are of the correct diameter and suitable to secure the tightness of the cable used. Where site conditions indicate, cable duct, conduit etc. must be ATEX approved, for a protection degree equal or greater than the protection degree indicated on the rating plate.

The female thread type is indicated on the housing: M20*1.5mm or 1/2"NPT





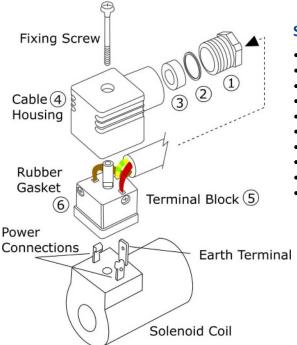
Earth Tag. Can be customised with Tag number, part number etc.



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 1: DIN Connector Assembly

- Insert the electrical power cable through the gland assembly (1,2,3)
- Push the cable through cable housing (4)
- Connect power and earth cables to terminal block 5
- Push terminal block (5) backwards, inside cable housing (4)
- Place rubber gasket (6) on terminal block (5) front face
- Push terminal block onto solenoid coil terminals
- · Push fixing screw through complete assembly
- Tighten fixing screw with small screwdriver
- Do not over tighten
- Tighten cable gland (1,2,3) by hand

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