Measure Monitor Control

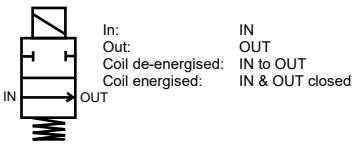
N01

Solenoid Valve - 2/2 - Normally Open

Benefits & Features

- High dependency applications
- Direct acting
- General purpose applications
- Internal moving parts available as spares kit
- Brass or nickel plated brass bodies
- IP65 solenoid coil protection

Specification



Configuration	Direct Acting
Port Sizes	1/8”BSP
Orifice	see table below
Kv	see table below
Body	Brass or nickel plated brass
Media	Air, light oils, water etc. Subject to material compatibility
Pressure ranges	See individual data tables below
Seal options	NBR | VITON | EPDM

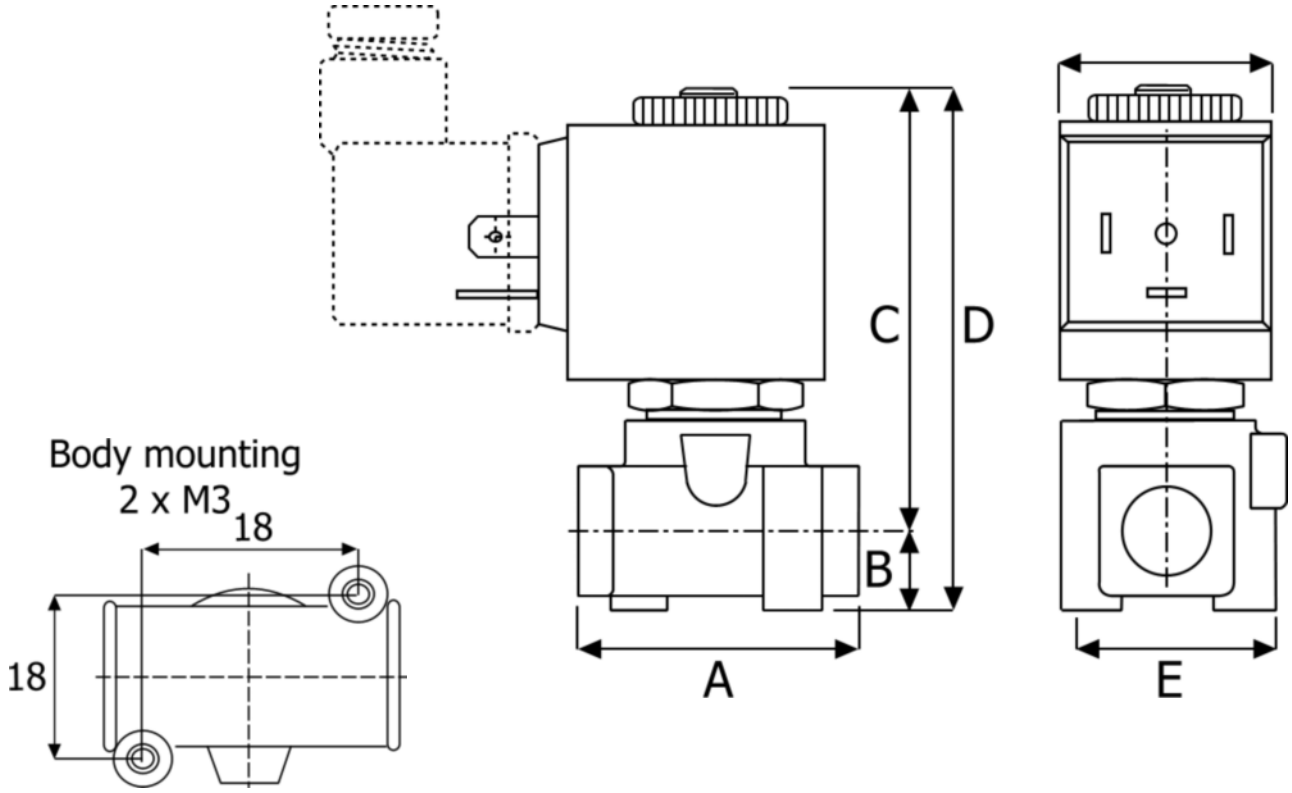
Technical Data

Model:							Orifice mm	Nominal Max. Bar	Min. / Max. Differential Pressures. Bar.			KV Flow Factor L/min.
									Min.	Maximum		
A		B	C		D	E				AC	DC	
	N01			12			1.2	35	0	20	20	0.8
	N01			15			1.5	35	0	16	16	1.0
	N01			20			2.0	35	0	9	9	1.2
	N01			25			2.5	35	0	5	5	1.7
	N01			31			3.1	35	0	3	3	2.5

Solenoid Valve - 2/2 - Normally Open

Weights & Dimensions

Weight Kg	Dimensions mm				
	A	B	C	D	E
0.1	30	8	52	60	24.5



Order Codes

A	Coil Voltage	B	Port Connection	C	Seals (fluid temp. min / max)	D	Body Material	E	Options
A	AC	B	1/8" BSP	B	NBR (-15°C to + 80°C)	T	Brass		
C	DC			V	VITON (-15°C to + 130°C)	N	Nickel Plated Brass		
				E	EPDM (-15°C to + 130°C)				

Solenoid Valve - N01 - Spare Parts

Pilot Assembly

Seal Material	Port Size (AC power supply)	Port Size (DC Power Supply)
	⅛"	⅛"
NBR	AP82UBI	CP82UBI
VITON	AP82UVI	CP82UVI
EPDM	AP82UEI	CP82UEI
		

Solenoid Coil

C1 Solenoid Coil

H=31mm, W=22mm, D=28mm

Voltage	Port Size (AC power supply)	Port Size (DC Power Supply)
	⅛"	⅛"
12	1AN01	10N06
24	1BN01	11N06
48	1CN01	12N06
110	1DN01	13N06
220	1EN01	14N06
415	1GN01	
		

Solenoid Connector

C1 Solenoid Connector

22mm

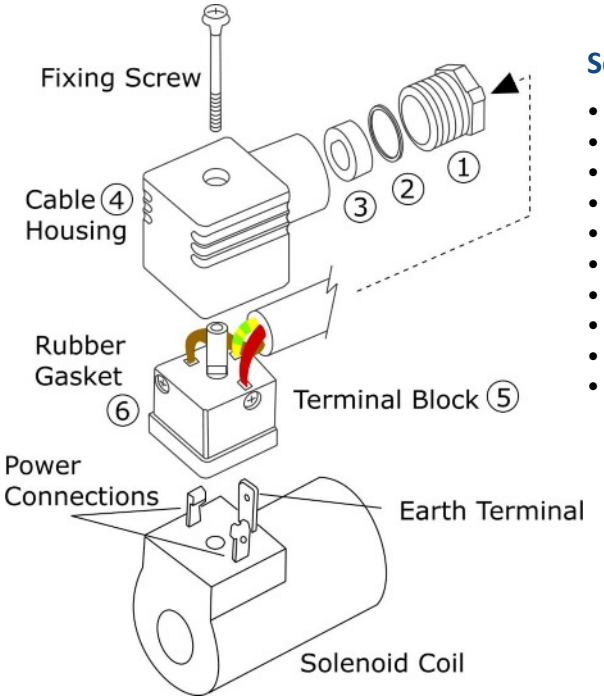
Voltage	Code	RED LED
Any	20220000	NO
24	20220005	YES
115	20220006	YES
230	20220007	YES

Measure Monitor Control

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