

**IP65** 

# Solenoid Valve - Model N02 - 1/8", 1/4" 2/2 Normally Open



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# N02

# Solenoid Valve - 2/2 - Normally Closed

# **Benefits & Features**

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



### **Specification**

Direct Acting 1/8" & 1/4" BSP
see table below
see table below
Brass or nickel plated brass
Air, light oils, water etc. Subject to material compatibility
See individual data tables below
NBR   VITON   EPDM

#### **Technical Data**

Model:					Port Size BSP	Orifice mm	Nominal Max. Bar	Min. / Max. Differential Pressures. Bar.			101		
									C3 Coil		KV Flow Factor		
							20.		Bai	Min.	Maximum		L/min.
Α		В	С		D	ш					AC	DC	
	N02	B/C		15			1⁄8", 1⁄4"	1.5	100	0	20	20	1.2
	N02	B/C		20			1⁄8", 1⁄4"	2.0	100	0	16	16	1.7
	N02	B/C		25			1⁄8", 1⁄4"	2.5	100	0	12	12	2.5
	N02	B/C		35			1⁄8", 1⁄4"	3.5	100	0	7	7	5.4
	N02	B/C		45			<sup>1</sup> ⁄8", <sup>1</sup> ⁄4"	4.5	100	0	4.5	4.5	6.9

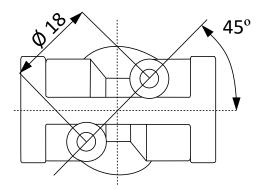


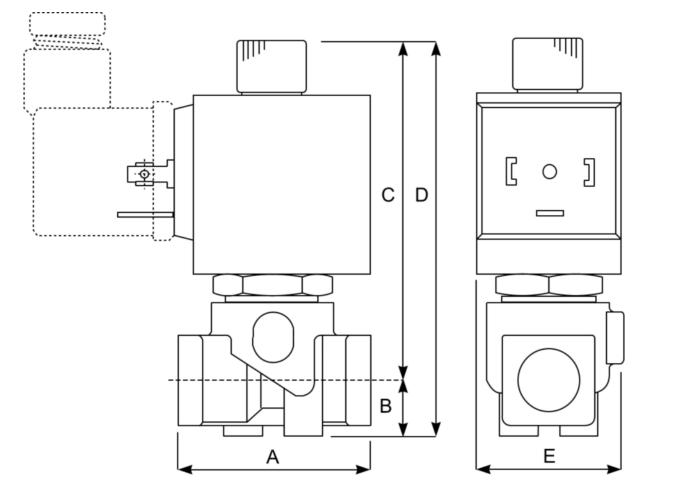
N02

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## Weights & Dimensions

Weight Kg	Dimensions mm							
	Α	в	С	D	E			
0.3	41	12	68	90	29			





#### **Order Codes**

Α	Coil Voltage	в	Port Connection	С	Seals (fluid temp. min / max)	D	Body Material	Е	Options
Α	AC	в	1/8" BSP	в	NBR (-15°C to + 90°C)	т	Brass	2	Stainless Steel Orifice
С	DC	С	1/4" BSP	۷	VITON (-15°C to + 130°C)	N	Nickel Plated Brass	-	
				Е	EPDM (-15°C to + 130°C)				

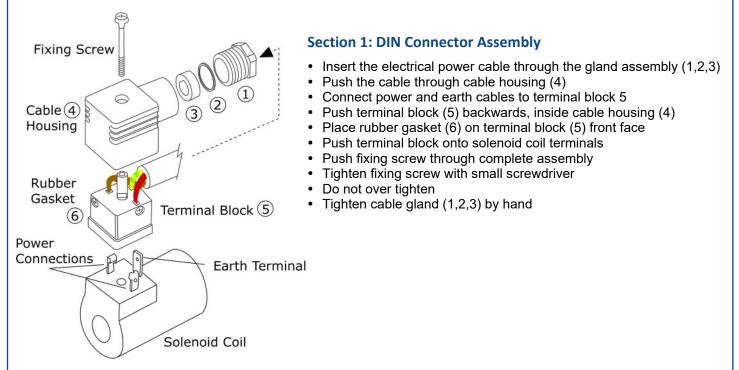
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# IP65 SAFE AREA INSTALLATION & MAINTENANCE

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