

## Solenoid Valve - 2/2 - Normally Closed

### Benefits & Features

- High dependency applications
- Direct acting
- Suitable for gaseous and liquid media
- Ideal for zero differential pressure applications
- Brass body. 316 stainless steel body (1/2" only)
- IP65 solenoid coil protection



### Specification

<b>Configuration</b>	Direct acting
<b>Port Sizes</b>	3/8" to 3/4" BSP
<b>Orifice</b>	see table below
<b>Kv</b>	see table below
<b>Body</b>	Brass or 316 stainless steel (1/2" body only)
<b>Media</b>	Air, light oils, water, chemicals etc. Subject to material compatibility
<b>Pressure ranges</b>	See individual data tables below
<b>Seal options</b>	NBR   VITON   EPDM

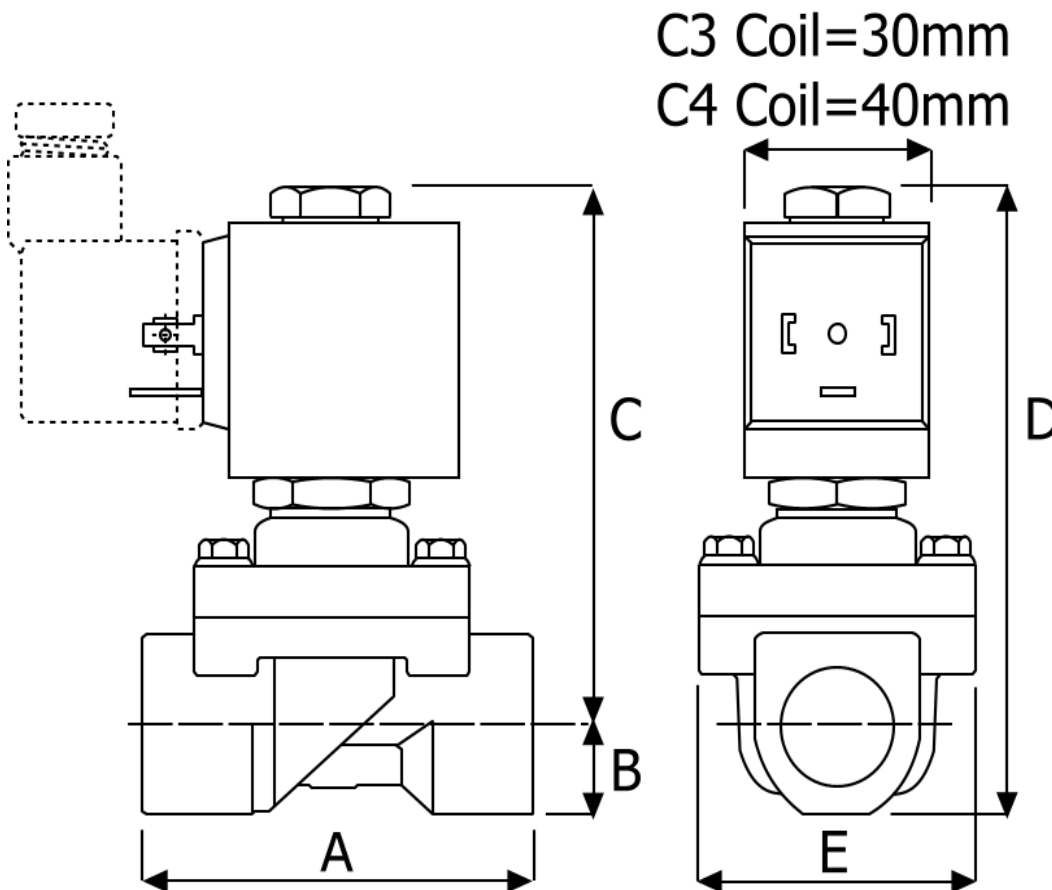
### Technical Data

Model:					Port Size BSP	Orifice mm	Nominal Max. Bar	Min. / Max. Differential Pressures. Bar.				KV Flow Factor L/min.
A	L10	B	C	D				E	Min.	Max. Pressures		
					Coil C3		Coil C4					
					AC	DC	AC			DC		
		D		13		0	0.5	0.06	1	0.5	32	
		E		13		0	0.5	0.06	1	0.5	36	
		F		19		0	0.14	-	0.2	0.12	81	

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### Weights & Dimensions

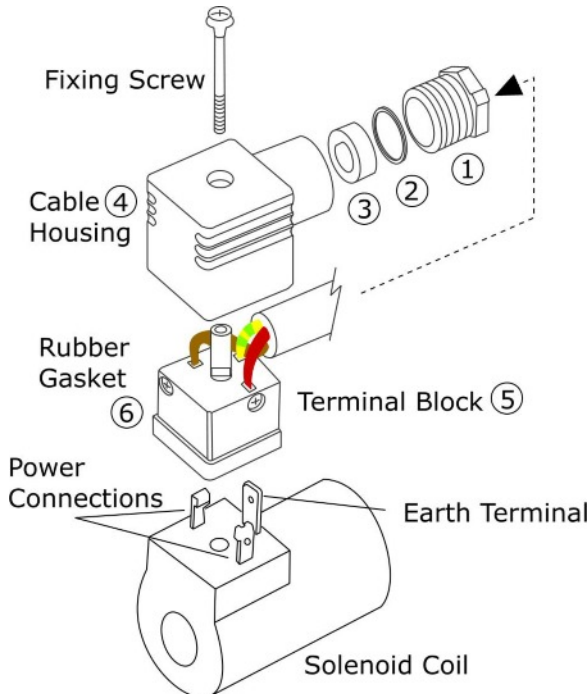
Port Size	Weight Kg	Dimensions mm					
		Brass Body	Stainless Steel Body	B	C	D	E
		A	A				
3/8"	1	64	/	14	70	84	45
1/2"	1	64	66	14	70	84	45
3/4"	1.3	82	88	17	77	94	55



### Order Codes

A	Coil Voltage	B	Port Connection		C	Seals (fluid temp. min / max)	D	Body Material	E	Options
A	AC	D	3/8" BSP	D1	3/8" NPT	B	NBR (-10°C to +90°C)	I	316 Stainless Steel*	
C	DC	E	1/2" BSP	E1	1/2" NPT	V	VITON (-10°C to +130°C)	N	Niploy Plated Brass	
		F	3/4" BSP	F1	3/4" NPT	E	EPDM (-10°C to +140°C)	T	Brass	
		G	1" BSP	G1	1" NPT				* 1/2" & 3/4" body only	

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