

### Solenoid Valve - 2/2 - Normally Open

#### **Benefits & Features**

- Water, air, high pressure fluids etc
- Media temperature: -15°C to +130°C
- Two way normally open
- Ideal for high flow applications
- Brass, nickel plated brass or 316 stainless steel body (1/2" & 3/4" only )
- IP65 safe area



#### **Specification**

Configuration Port Sizes	Pilot operated diaphragm design 3/8" to 1" BSP
Orifice	see table below
Κv	see table below
Body	Brass
Media	Air, water, liquids etc. Subject to material compatibility
Pressure ranges	see data table below
Seals	see order codes table

# Out: OUT Coil de-energised: IN to OUT Coil energised: IN & OUT closed

#### **Technical Data**

MODEL							Port Size	Orifice	Body	Min Diffei	KV Flow Factor		
							BSP	mm	Rating	N.41	Maxi	mum	L/min.
А		В	С		D	Е				Min.	AC	DC	
	N23			13			3⁄8"	12.7	25	0.15	16	14	35
	N23			13			1⁄2"	12.7	25	0.15	16	14	40
	N23			19			3/4"	18	25	0.15	16	14	87
	N23			25			1"	25	25	0.15	12	12	170

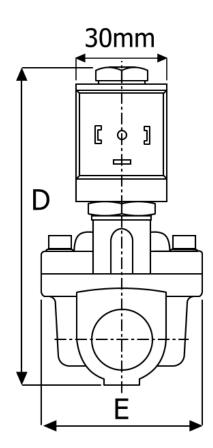


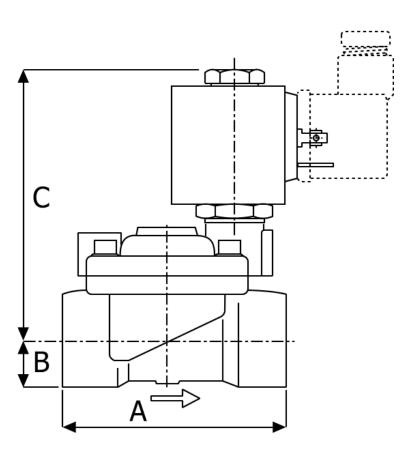
## N23

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#### Weights & Dimensions

		Dimensions mm								
Port Size	Weight Kg	Brass Body	Stainless Steel Body							
		А	А	В	С	D	E			
3⁄8"	0.55	64	/	14	87	101	45			
1⁄2"	0.55	64	66	14	87	101	45			
3⁄4"	0.85	82	88	17	96	113	55			
1"	1.35	100	/	20	103	123	70			





#### **Order Codes**

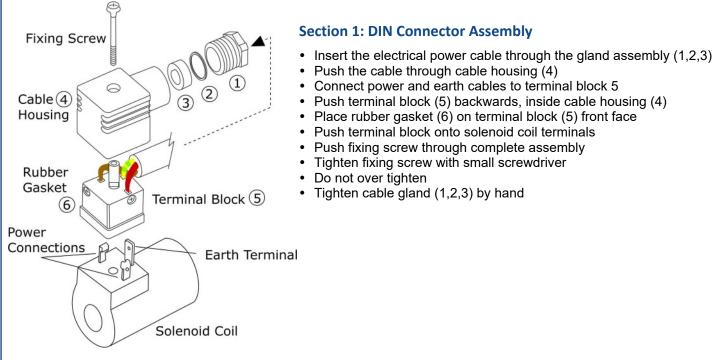
Α	Coil Voltage	в	Port Connection			С	Seals (fluid temp. min / max)	D	Body Material	E	Options
Α	AC	D	3/8" BSP	F	3/4" BSP	в	NBR (-15°C to + 90°C)	т	Brass		
С	DC	E	1/2" BSP	G	1" BSP	v	VITON (-15°C to + 130°C)	N	Nickel Plated Brass		
						Е	EPDM (-15°C to + 130°C)	1	316 Stainless Steel*	1	
		* 1/2" & 3/4" Body only							" & 3/4" Body only	1	
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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