

Solenoid Valve - 2/2 NO - Direct Acting - 0 Bar

Benefits & Features

- Direct acting solenoid valve for high dependency applications
- Suitable for gaseous and liquid media
- Works from 0 Bar
- Works with vacuum
- IP65 safe area applications
- EExm II T4 hazardous area coil option
- BSP female body with optional flanged body



Specification

Configuration	Direct Acting
Port Sizes	3/8" to 2"
Orifice	see table below
Kv	see table below
Body	Brass
Media	Air, gases, liquids etc. Subject to material compatibility
Pressure ranges	See individual data tables below
Seals	NBR, VITON, EPDM
Voltage	12, 24, 48, 110, 220, 230 AC/DC. Other voltages upon request



Technical Characteristics

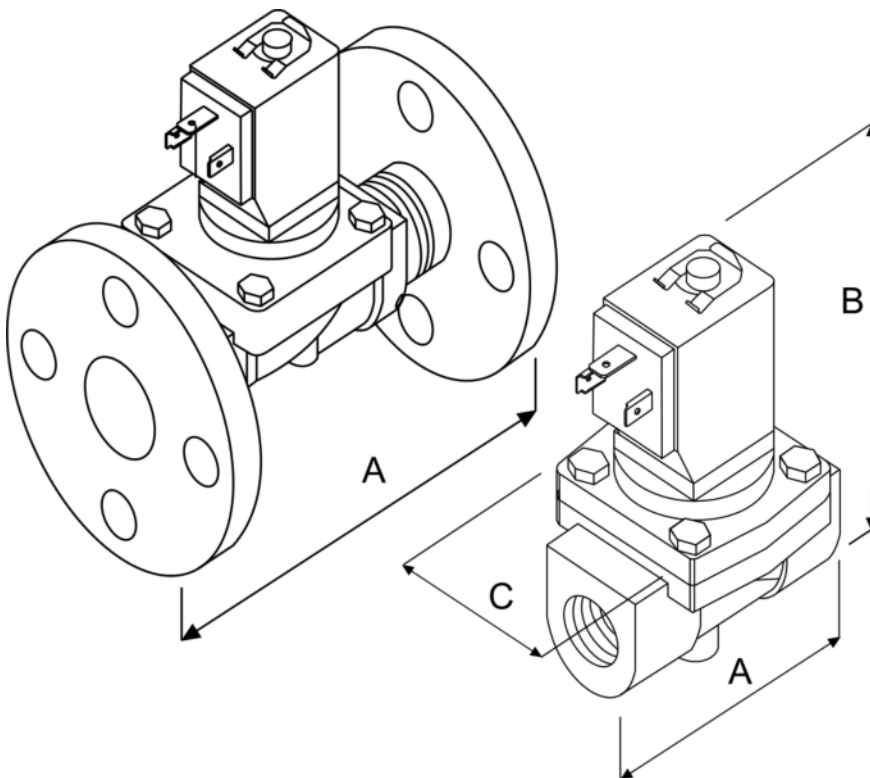
								Orifice mm	Pressure in Bar				KV Flow Factor L/min.	Vacuum (torr)	
									Min. / Max. Operating Differential Pressures						
									Min.	Maximum					
										Coil C45		Coil C50			
										AC	DC	AC			DC
	A		B		C	D	E								
SX37		18		3/8"				18	0	5	5	3	1	43	10 ⁻¹
SX37		18		1/2"				18	0	5	5	3	1	57	10 ⁻¹
SX37		23		3/4"				23	0	5	5	3	1	97	10 ⁻¹
SX37		28		1"				28	0	5	4	3	1	157	10 ⁻¹
SX37		33		1 1/4"				33	0	5	4	3	1	229	10 ⁻¹
SX37		33		1 1/2"				33	0	5	4	3	1	300	10 ⁻¹
SX37		44		1 1/2"				44	0	4	1	1	0.5	371	10 ⁻¹
SX37		44		2"				44	0	4	1	1	0.5	443	10 ⁻¹
										IP65		EExm			



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Weights & Dimensions

Port Size	Weight Kg (Brass body)	Dimensions mm					
		A		B		C	
		Screwed	Flanged	Screwed	Flanged	Screwed	Flanged
3/8"	1.1	71	-	135	-	51	-
1/2"	1.1	71	-	135	-	51	-
3/4"	1.2	80	-	141	-	61	-
1"	1.6	90	138	147	152	71	125
1 1/4"	2.0	97	155	166	177	76	140
1 1/2"	2.0	97	155	166	179	76	140
1 1/2"	3.6	118	175	182	195	98	155
2"	3.6	118	175	182	195	98	155



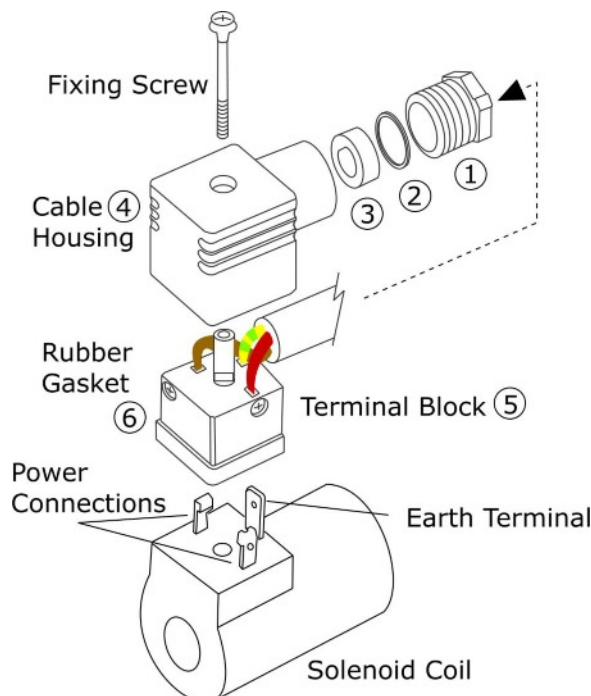
Order Codes

A	Body	B	Ported Body BSP. (NPT upon request)		C	Seals (fluid temp. min / max)	D	Protection	E	Options	
T	Brass	E	3/8" BSP	F	1/2" BSP	0	NBR (-10°C to + 90°C)	P	IP65	FL	Flanged Body*
P	Plastic PA	H	3/4" BSP	L	1" BSP	1	VITON (-10°C to + 120°C)	M	EExm II T4	SG	De-greased**
		N	1 1/4" BSP	O	1 1/2" BSP	6	EPDM (-10°C to + 130°C)			* Brass Body only **for Oxygen applications	
		P	2" BSP								

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