Measure Monitor Control

L03

Solenoid Valve - 2/2 - Normally Closed

Benefits & Features

- High dependency applications
- Pilot diaphragm design
- High flow applications
- Internal moving parts available as spares kit
- Brass or nickel plated brass bodies
- IP65 solenoid coil protection

Specification

Configuration	Pilot Diaphragm
Port Sizes	3/8” BSP to 2” 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 | RULON | TEFLON

Technical Data

							Orifice mm	Body Rating	Min . /Max. Operating Differential Pressures. BAR.			KV Flow Factor L/min.
									Min.	Maximum		
A		B	C		D	E				AC	DC	
	L03			12			12.7	25	0.15	18	16	35
	L03			12			12.7	25	0.15	18	16	40
	L03			19			19	25	0.15	16	13	87
	L03			25			25	25	0.15	12	10	170
	L03			37			37	20	0.15	10	10	300
	L03			37			37	20	0.15	10	10	340
	L03			50			50	20	0.15	10	10	600

Options

Manual Override (screwdriver slot)

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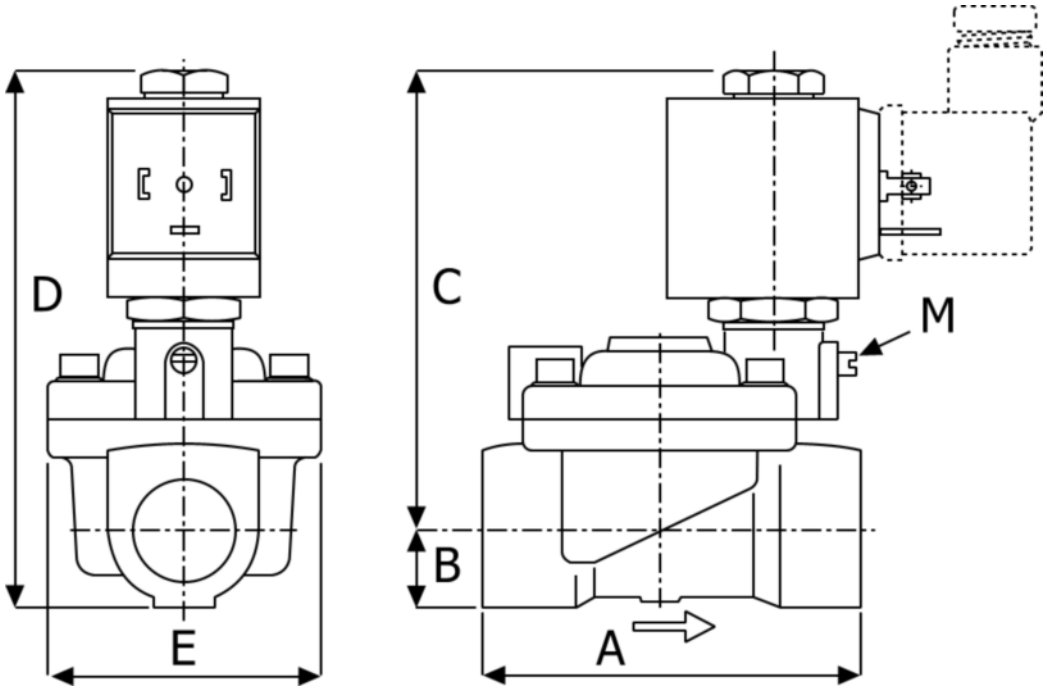
Weights & Dimensions

Port	Weight Kg	Dimensions mm				
		A	B	C	D	E
⅜"	0.55	64	14	87	101	45
½"	0.55	64	14	87	101	45
¾"	0.85	82	17	96	113	55
1"	1.35	100	20	103	123	70
1 ¼"	2.85	134	28	110	138	98
1 ½"	2.65	134	28	110	138	98
2"	4.45	152	35	121	156	120



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	I	1 1/2" BSP	B	NBR (-15°C to + 90°C)	T	Brass	M	Manual Override
C	DC	E	1/2" BSP	L	2" BSP	V	VITON (-15°C to + 130°C)	N	Nickel Plated Brass		
		F	3/4" BSP			E	EPDM (-15°C to + 130°C)	I	316 Stainless Steel*		
		G	1" BSP			R	RULON (-10°C to + 120°C)	* 1/2" & 3/4" Body only			
		H	1 1/4" BSP			T	TEFLON (-10°C to + 140°C)				

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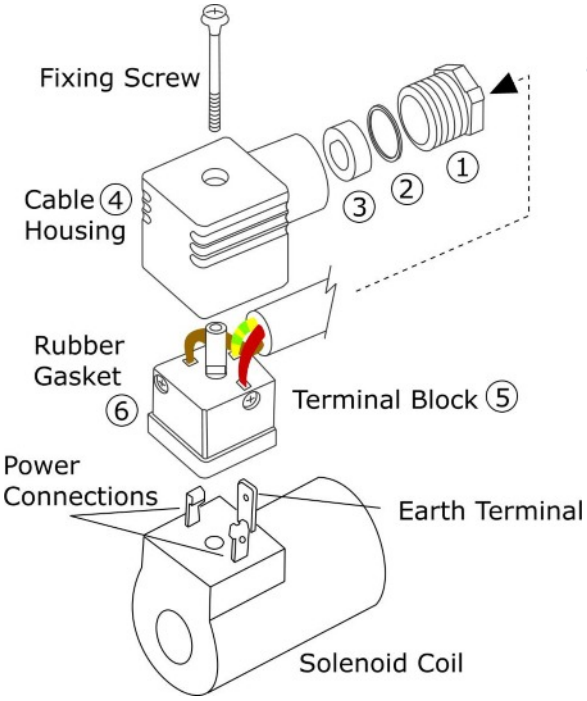
IP65 SAFE AREA INSTALLATION & MAINTENANCE

SAFE AREA
SOLENOID VALVES
DIN 43650-A (Large)
DIN 43650-B (Small)

DIN electrical socket connectors to protect solenoid coil terminals and wiring.



Section 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