



**TWO WAY
NORMALLY CLOSED**

**DIRECT ACTING
SOLENOID VALVE**

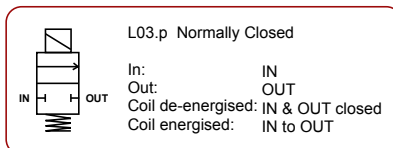


L03.p

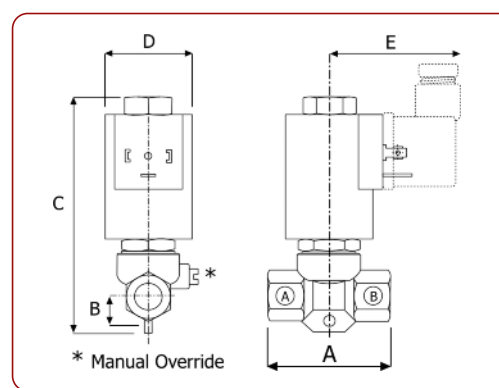
DESCRIPTION

Mechanical Characteristics:

Two Way Direct Acting Solenoid Valve with spring return.
Suitable for gaseous and liquid media compatible with the body and seal materials specified.
Vacuum. Forged brass, nickel plated brass, or stainless steel body. UREPAN Seals for Liquid CO2. Stainless steel internal moving parts.
Solenoid can be rotated 360°. Valve will operate in any position.



COIL SPECIFICATION:	COIL SERIES: B6
Insulation Class:	F (155°C) - H (180°C) upon request
Winding Wire Class:	H (180°C)
Protection Class:	Watertight IP65 (EN60529)
Duty:	Continuous (S.I.) 100% ED
Power Consumption:	AC: 11VA (28VA Inrush). DC 11W
Voltage Tolerance:	± 10%
Insulation:	> 1000 Mohm
Dielectric Strength:	> 2000 V/1"
Standard Voltages: (Other Voltages Available Upon Request)	12, 24, 48, 110, 220 VAC 50/60 Hz 12, 24, 48, 110, 220 VDC



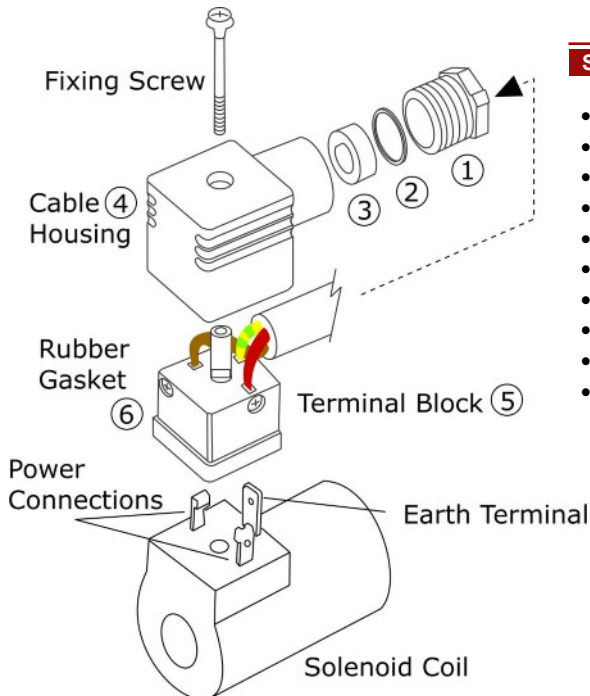
SPECIFICATIONS & DIMENSIONS

MODEL	Orifice mm					Min. /Max. Operating Differential Pressures. BAR.	KV Flow Factor L/min.	Weight Kg	Dimensions mm							
	A	B	C	D	E				Min.	Maximum		A	B	C	D	E
										AC	DC					
L03	08					0	60	60	0.2	0.3	50	10.5	96	36	54	
L03	18					0	40	35	1.2	0.3	50	10.5	96	36	54	
L03	25					0	25	20	1.6	0.3	50	10.5	96	36	54	
L03	32					0	14	10	1.8	0.3	50	10.5	96	36	54	

ORDER CODES

A	Body	B	Port	C	Seals (fluid temp. min / D1max)	D	Protection	E	Options
T	Brass	C	1/4" BSP	0	NBR (-10°C to + 70°C)	P	IP65	X	Manual Override*
N	Nickel Plated Brass	D	1/4" NPT	1	VITON (-10°C to + 90°C)				
I	316 Stainless Steel			2	UREPAN (-10°C to + 90°C)				
				3	PTFE (-10°C to + 120°C)				
				6	EPDM (-10°C to + 90°C)				
				7	HNBR (-45°C to + 90°C)				

Red Dragon Valves use 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.
- 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