

SOL SERIES

INDUSTRIAL SOLENOID VALVES



The SOL Series is a range of 2-way solenoid valves which are pilot operated and are available in a choice of 110Vac, 230Vac or 24Vdc coils to suit the required voltage.

Ideal for use in a wide range of industrial and commercial applications such as autoclaves, cooling plant and equipment, watering plant, fire extinguishing systems, hygienic & sanitary applications as well as water jet machinery and many other fluid control uses.

Features

- For liquid or gas* use
- Full range of sizes from 3/8" to 2" (BSP)
- 2 port, normally open (NO) and normally closed (NC) versions
- · Pilot operated
- Brass body
- 24Vdc, 110Vac and 230Vac operations available

General Features

The electro-pilot of the pilot-operated solenoid valves is not directly responsible for opening (closing) the solenoid valve. The solenoid valve presents three sequential chambers:

- Inlet chamber Ci (upstream of the diaphragm)
- Compensating chamber Cc (downstream of the diaphragm and upstream of the electro-pilot)
- Outlet chamber Cu(downstream of the electro-pilot)

In the 2/2-way normally closed (NC) solenoid valve, Ci & Cc are communicating by means of a compensating hole when the coil is de-energised. Therefore, the diaphragm is in a condition of balanced pressure level and DN tightness is ensured by the retaining spring load from the same diaphragm. When the coil is energised by acting on the electro-pilot, there is and immediate communication between Cc and Cu; the sudden increase in volume of the pressurised fluid over the diaphragm (Cc+Cu>Ci) causes a pressure drop.

The diaphragm is no longer in a condition of balanced pressure level and it swells up in the higher pressure direction thus raising up and opening the DN to let the fluid flow.



Mechanical

Body material	Forged brass						
Plunger	Magnetic stainless steel						
Gaskets	NBR						
T Room Maximum	80°C						
T Fluid Minimum	-20°C						
T Fluid Maximum	90°C						

Electrical

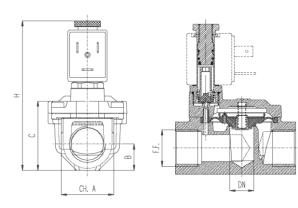
Electrical insulation class	1
Temperature class	Н
Protection Class (with connector)	IP65
Type of service	Continuous
Coil approval	VDE

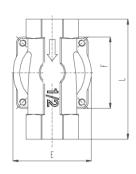


Part No.	Operating Voltage	Solenoid Power	Operation	Size			Di	imensi	on (mi	n)		Pressure (bar)		Max Flow		
					DN	CH.A	В	С	E	F	L	Н	Min	Max	(m3/hr)	
SOL1A1			NO				_	_							()	
SOL1B1	24Vdc	10 W	NC													
SOL1A3	110Vac	10.5 VA	NO	G3/8"	11.5	24	12	32.5	42	38	57	93.5	0.1	15	1.7	-20 to +90 Deg C
SOL 1B3			NC													
SOL1A4	230Vac	9 V A	N0													
SOL1B4			NC													
SOL2A1	24Vdc	10 W	N0	G1/2"	13.5	30	15	40	45	41	69	101	0.1	15	3.8	-20 to +90 Deg C
SOL 2B1			NC													
SOL2A3		10.5 VA	N0													
SOL 2B3	110Vac		NC													
SOL2A4	230Vac 9	9 V A	NO													
SOL2B4			NC													
SOL3A1	24Vdc	10 W	NO	G3/4"			18	46.6	54	50	74	108	0.2	15	5	-20 to +90 Deg C
SOL3B1			NC													
SOL3A3	110Vac 10	10.5 VA	N0		18	nc										
SOL3B3			NC		18	36										
SOL3A4	2221	9 V A	N0													
SOL3B4	230Vac	9 V A	NC													
SOL4A1	24Vdc	10 W	NO	G1"			22.5	60	71	67	93	120	0.2	12	11	-20 to +90 Deg C
SOL4B1	24700		NC		26	45										
SOL4A3	110Vac	10.5 VA	N0													
SOL 4B3	TTUVac		NC													
SOL4A4	230Vac	9 V A	NO													
SOL 4B4	ZSUVac		NC													
SOL5A1	24Vdc	c 19 W	N0	G1-1/4" 32	32	55	27.5	73.5	87	79	111	146	0.4	12	17	-20 to +90 Deg C
SOL5B1	24000		NC													
SOL5A3	110Vac	21 VA	N0													
SOL5B3			NC													
SOL5A4	230Vac	15 V A	N0													
SOL5B4	ZJUVaL	13 V A	NC													
SOL6B1	24Vdc	19 W	NC							100	138	154	0.4	10	27	-20 to +90 Deg C
SOL6B3	110Vac	21 V A	NC	G1-1/2" 4	45	62	31	85	110							
SOL6A4	230V ac	30Vac 9 VA	N0	U1-1/2	/2 45	02										
SOL6B4	230Vac	15 V A	NC													
SOL7B1	24Vdc	19 W	NC	NC		75	37.5	99	110			168	0.4	10	26	-20 to +90 Deg C
SOL7B3	110V ac	21 V A	NC	G2"	50					100	145					
SOL7A4	230Vac	9 V A	N0	u۷	ວບ				110	100	145					
SOL7B4	ZSUVAC	15 V A	NC													



All dimensions are in millimeters







Made in the UK

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