

| SOL SERIES



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						

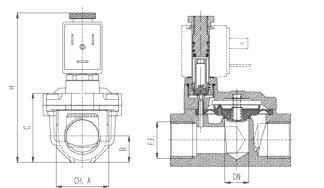
Electrical

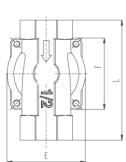
Electrical insulation class	I
Temperature class	Н
Protection Class (with connector)	IP65
Type of service	Continuous
Coil approval	VDE



Develop	Operating		Operation	Size			Di	mensi	on (mi	n)		Pressure (bar)		Max Flow	0 ··· 7	
Part No. Volta	Voltage				DN	CH.A	В	C	E	F	L	Н	Min	Max	(m3/hr)	Operating Temp
SOL1A1	24Vdc	Vdc 10 W	NO		11.5	24	12	32.5	42	38	57	93.5	0.1	15	1.7	-20 to +90 Deg C
SOL1B1	24vac 1	10 44	NC													
SOL1A3	110Vac	10.5 VA	NO	G3/8"												
SOL1B3			NC													
SOL1A4	230Vac	9 V A	NO													
SOL1B4			NC													
SOL2A1	24Vdc	10 W	NO	G1/2"	13.5	30	15	40	45	41	69	101	0.1	15	3.8	-20 to +90 Deg C
SOL2B1	24000		NC													
SOL2A3	110Vac	10.5 VA	NO													
SOL 2B3	TTOVAC		NC													
SOL2A4	230V ac	9 V A	NO													
SOL2B4	200100	314	NC													
SOL3A1	24Vdc	10 W	NO	G3/4"	18	36	18	46.6	54	50	74	108	0.2	15	5	-20 to +90 Deg C
SOL 3B1	24000		NC													
SOL 3A 3	110Vac	10.5 VA	NO													
SOL 3B3	TTOVAC		NC			00										
SOL3A4	230V ac	9 V A	NO													
SOL3B4	200740	314	NC													
SOL4A1	24Vdc	10 W	NO	G1"			22.5	60	71	67	93	120	0.2	12	11	-20 to +90 Deg C
SOL 4B1	24000		NC		26	45										
SOL4A3	110Vac	10.5 VA	NO													
SOL 4B3	TTOVAC		NC													
SOL4A4	230Vac	9 V A	NO													
SOL4B4	200100		NC													
SOL5A1	24Vdc	19 W	NO	G1-1/4"	32	55	27.5	73.5	87	79	111	146	0.4	12	17	-20 to +90 Deg C
SOL 5B1	24000		NC													
SOL 5A 3	110Vac	21 VA	NO													
SOL 5B3	TIUVau		NC													
SOL5A4	230V ac	15 V A	NO													
SOL 5B4			NC													
SOL6B1	24Vdc	19 W	NC	G1-1/2"	45		31	85	110	100	138	154	0.4	10	27	-20 to +90 Deg C
SOL6B3	110V ac	21 V A	NC			62										
SOL6A4	230V ac	9 V A	NO													
SOL6B4	230V ac	15 V A	NC													
SOL7B1	24Vdc	19 W	NC			75	37.5	99	110	100	145	168	0.4	10	26	-20 to +90 Deg C
SOL7B3	110Vac	21 V A	NC	G2"	50											
SOL7A4	230Vac	9 V A	NO	62	JU					100						
SOL7B4	2307.90	15 V A	NC													

DIMENSIONS All dimensions are in millimeters







Made in the UK

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