SOL Series Industrial Solenoid Valves





- 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

The SOL Series is a range of 2-way solenoid valves which are pilotoperated 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.

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 deenergised. 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.

* Group 2 gases.

Mechani	al Characteristics	Electrical Characteristics					
Body material	Forged brass	Electrical insulation class	I				
Plunger	Magnetic stainless steel	Temperature class	Н				
Gaskets	NBR	Protection Class (with connector)	IP65				
T _{room} Maximum	80°C	Type of service	Continuous				
T _{fluid} Minimum	-20°C	Coil approval	VDE				
T _{fluid} Maximum	90°C						



Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969 Email:sales@cynergy3.com

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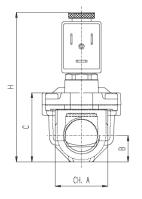
SOL 2018

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SOL Series Industrial Solenoid Valves



	Operating	Solenoid	Operation	Size	Dimension (mm)								Pressure (bar)		Max Flow	
Part No.	Voltage	Power			DN	CH.A	В	С	E	F	L	н	Min	Max	(m3/hr)	Operating Temp
SOL1A1		10 W	NO	G3/8" 11.5			12	32.5	42	38	57	93.5	0.1	15		
SOL1B1	24Vdc		NC													
SOL1A3	4401/	110Vac 10.5 VA	NO												47	
SOL1B3	110Vac		NC		11.5										1.7	-20 to +90 Deg C
SOL1A4	2201/22	0.1/4	NO													
SOL1B4	230Vac	ac 9 VA	NC													
SOL2A1	24Vdc	10 W	NO	G1/2" 13.5			15	40	45	41	69	101	0.1	15	3.8	-20 to +90 Deg C
SOL2B1			NC													
SOL2A3	110Vac 10.5 VA	10 5 1/4	NO		12 5	30										
SOL2B3		10.5 VA	NC		13.5	30										
SOL2A4	2201/22	01/4	NO													
SOL2B4	230Vac	9 V A	NC													
SOL3A1	24Vdc	10 W	NO			36	18	46.6	54	50	74	108	0.2	15	5	-20 to +90 Deg C
SOL3B1	24Vac	10 M	NC													
SOL3A3	110//	10 5 1/4	NO		10											
SOL3B3	110Vac	10.5 VA	NC	G3/4"	G3/4" 18											
SOL3A4	2201/22	0.1/4	NO													
SOL3B4	230Vac	9 V A	NC													
SOL4A1	241/1	10.14/	NO	G1" 26				60	71	67	93	120	0.2	12	11	-20 to +90 Deg C
SOL4B1	24Vdc	10 W	NC				22.5									
SOL4A3	110Vac	10.5 VA	NO		26	6 45										
SOL4B3			NC		26											
SOL4A4	2201/22	0.1/4	NO													
SOL4B4	230Vac	9 V A	NC													
SOL5A1	241/1	10.14	NO	G1-1/4" 32		55	27.5	73.5	87	79	111	146	0.4	12	17	-20 to +90 Deg C
SOL5B1	24Vdc	19 W	NC													
SOL5A3	110//	21.1/4	NO		22											
SOL5B3	TTOMAC	110Vac 21 VA	NC		32											
SOL5A4	2201/1-2 451/4	15.1/4	NO													
SOL5B4	230Vac	15 VA	NC													
SOL6B1	24Vdc	19 W	NC			62			110	100	138	154	0.4	10	27	-20 to +90 Deg C
SOL6B3	110Vac	21 VA NC	NC	C1 1/2	45		31	85								
SOL6A4	230Vac	9 V A	NO	G1-1/2" 45	45											
SOL6B4	230Vac	15 VA	NC													
SOL7B1	24Vdc	19 W	NC			75	75 37.5	99	110	100	145	168	0.4	10	26	-20 to +90 Deg C
SOL7B3	110Vac	21 VA	NC	621	-											
SOL7A4	9	9 VA	NO	G2"	50											
SOL7B4	230Vac	15 VA	NC													

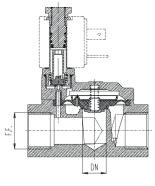


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www.cynergy3.com

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969 Email:sales@cynergy3.com

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