



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 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.

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 an 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.

Mechanical Characteristics		Electrical Characteristics	
Body material	Forged brass	Electrical insulation class	I
Plunger	Magnetic stainless steel	Temperature class	H
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		



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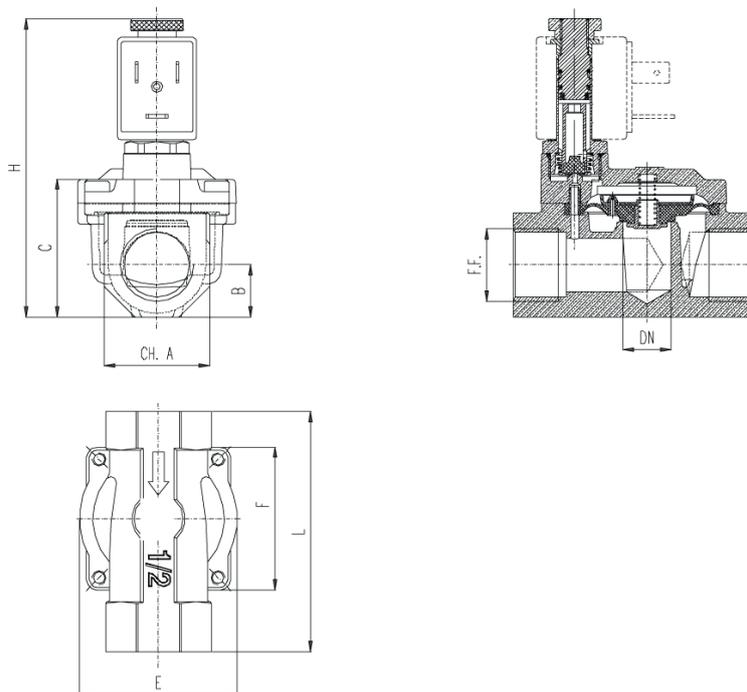
SOL 2018

www.cynergy3.com

SOL Series Industrial Solenoid Valves



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



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