



Datasheet

ENGLISH

Stock Nos:1440809, 1440794, 1440810, 1440795, 1440811, 1440797, 1440812, 1440798, 1440813, 1440799, 1440814, 1440800, 1440815, 1440801, 1440816, 1440802, 1440817, 1440803, 1440818, 1440804, 1440805, 1440819, 1440806, 1440807, 1440820, 1440808

SOL Series

Industrial Solenoid Valves



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

The SOL Series is a range of 2-way solenoid valves which are pilotoperated and are in a choice of 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 tightnessis ensured by the retaining spring load fo 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.

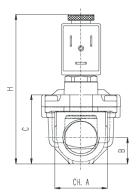
Mechanio	al Characteristics	Electrical Characte ristics					
Body material	Forged brass	Electrical insulation class	1				
Plunger	Magnetic stainless steel	Temperature class	Н				
Gaskets	NBR	Protection Class (with connector)	IP65				
T _{room} Maximum	80°C	Type of service	Continuous				
T _{fluid} Minimum	-20°C	Coil approval	VDE				
T _{fluid} Maximum	90°C						

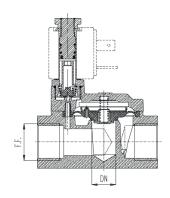


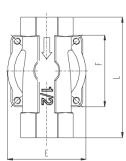




SOL Series *Industrial Solenoid Valves*







PS Stock	Operating	Operation	Size	Dimension (mm)							Pressure (bar)		Max Flow		
No.	Voltage			DN	CH.A	В	С	E	, F	L	Н	Min	Max	(m3/hr) Operat	Operating Temp
1440809		NO	G3/8"	11.5	24	12	32.5	42	38	57	93.5	0.1	15	1.7	-20 to +90 Deg C
1440794	24Vdc	NC													
1440810		NO													
1440795	230Vac	NC													
1440811	2011	NO			30	15 40	40	40 45	41	69	101	0.1	15	3.8	-20 to +90 Deg C
1440797	24Vdc	NC	C1 /2II	12.5											
1440812	2221	NO	G1/2"	1/2" 13.5			40								
1440798	230Vac	NC													
1440813	24Vdc	NO NC NO	G3/4" 18	36	18	46.6	54	50	74	108	0.2	15	5	-20 to +90 Deg C	
1440799	24V ac														
1440814	230Vac														
1440800	230V aC	NC													
1440815	24Vdc	NO	G1" 26												
1440801	24Vac	NC		26	45	22.5	60	71	67	93	120	0.2	12	11	-20 to +90 Deg C
1440816	230Vac	NO		20											
1440802	230V aC	NC													
1440817	24Vdc	NO	G1-1/4" 32												
1440803	24VuC	NC		55	27.5	73.5	87	79	111	146	0.4	12	17	-20 to +90 Deg C	
1440818	230Vac	NO													
1440804	230 V aC	NC													
1440805	24Vdc	NC				31	85	110	100	138	154	0.4	10	27	-20 to +90 Deg C
1440819	230Vac	NO		45	62										
1440806	230Vac	NC													
1440807	24Vdc	NC		G2" 50	75	37.5	99	110	100	145	168	0.4	10	26	-20 to +90 Deg C
1440820	230Vac	NO	G2"												
1440808		NC													