

Datasheet

RS PRO Solenoid Valve

Stock No.s: 1440809, 1440794, 1440810, 1440795, 1440811, 1440797,

1440812, 1440798, 1440813, 1440799, 1440814, 144800, 1440815, 1440801, 1440816, 1440802, 1440817, 1440803, 1440818, 1440804, 1440805, 1440819, 1440806, 1440807, 1440820, 1440808



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.



SPECIFICATIONS

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

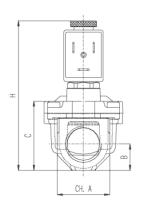
Electrical insulation class	I					
Temperature class	Н					
Protection Class (with connector)	IP65					
Type of service	Continuous					
Coil approval	VDE					

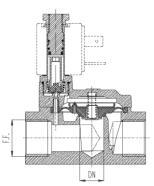


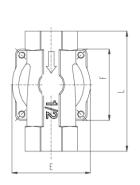
RS Stock	Operating	Solenoid	Oneration	Size	Dimension (mm)									Pressure (bar)		
No.	• -	Power			DN	CH.A	В	С	E	F	L	Н	Min	Max	Max Flow (m3/hr)	Operating Temp
1440809	041/-1-	10 \\/	N0	G3/8"	11.5	24	12	32.5	42	38	57	93.5	0.1	15	1.7	-20 to +90 Deg C
1440794	24Vdc	10 W	NC													
1440810	230Vac 9 VA	0.1/ 4	N0													
1440795		9 V A	NC													
1440811	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
1440797			NC													
1440812	0001/	230Vac 9 V A	N0													
1440798	ZSUVac		NC													
1440813	041/1	10 W	NO	G3/4"	18	36	18	46.6	54	50	74	108	0.2	15	5	-20 to +90 Deg C
1440799	24Vdc 10		NC													
1440814	2221/	0.1/4	NO NC													
1440800	230Vac	9 V A														
1440815	0.07.1	10 W	NO	G1"	26	45	22.5	60	71	67	93	120	0.2	12	11	-20 to +90 Deg C
1440801	24Vdc		NC													
1440816	000\/	9 V A	N0													
1440802	230Vac		NC													
1440817	041/1	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
1440803	24Vdc		NC													
1440818	000\/	ac 15 V A	N0													
1440804	230Vac		NC													
1440805	24Vdc	19 W	NC	G1-1/2"	45	62	31	85	110	100	138	154	0.4	10	27	-20 to +90 Deg C
1440819	230Vac	9 V A	NC													
1440806		15 V A	NC													
1440807	24Vdc	19 W	NC													
1440820	230Vac	9 V A	NO	G2"	50	75	37.5	99	110	100	145	168	0.4	10	26	-20 to +90 Deg C
1440808	3 Zouvac	15 V A	NC													

DIMENSIONS

All dimensions are in millimeters









SOL RS Pro 2022