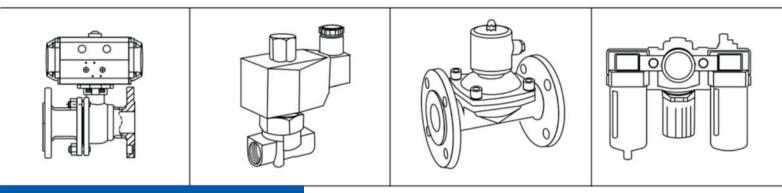


## ISO9001 CE RoHS 🚔 📩



# **OPERATING MANUAL**





Characteristic	with timer, automatically drain at settled time. Widely used in filter machine, separator, air tank, dripping feet and other air compressor system parts. Drain lasting time and separationtime is adjustable.
Medium:	Air, water
Fluid Temp:	NBR: -5℃ ~ 80℃
	EPDM: - 5 °C ~ 100°C
	VITON: - 5 ℃ ~ 120℃
Pressure:	0-1.6 Mpa
Port size:	1/2"
Thread:	G thread
Orifice:	3.0mm 🗾 🔂
Voltage:	DC-12V, 24V
	AC-24V,120V,240V/60HZ;110V,220V/50HZ
Tolerance:	±10%
Coil:	S11B, 24VA(AC), 18W(DC), IP65, 100%ED
Material:	Body-Brass
	Seal-NBR, EPDM, VITON
	Tube-SS 304
	Plunger-SS430F
	Stop-SS430F
	Spring-SS304
	Shading rings-red copper

## **Coils Parameters**

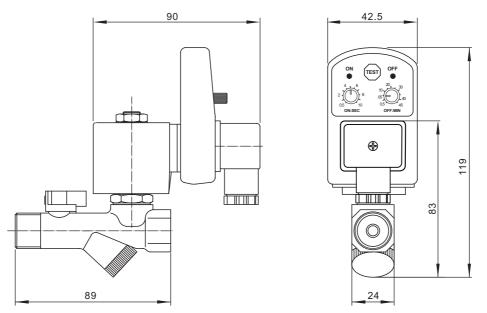
Model	Picture	Voltage	Motor Power	Protection Class	Outline Size Drawing
S21B		1.AC220V 2.AC110V 3.AC24V 1.DC24V 2.DC12V 3.DC6V Special voltage can be customized	24VA18W	IP65	



### **Specification of The Timer**

	MODEL	KLT-R
	Porer Sipply Ciltage	24~380V AC/DC–50HZ/60Hz for "CE"Marked Timer
ON TEST OFF	The Largest Current Consumption	4mA Max
2 8 05 40 2 0.5 min	Ambient Temperature	<b>−10</b> °C~ <b>+50</b> °C
0.5 OFF.mm	Water Proof Grade	IP65-EN 60529
	Shell Material	Flame Retardant Abs Plastic
	Time Interval(OFF)	From 0.5 to 10s.
	Discharge Time (NO)	From 0.5 to 45min
	Indicator Lamp	Yellow LED
	Manual Test Button	Test
	Electrcal Connection	DIN43650A

## **Outline Size Drawing**



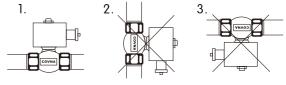
#### installation instructions

- Two position,two way,normal close switch,magnetic solenoid water valve
- · Can be installed any angle, but it is a good coice when the horixontal tube keep upward
- · Used to control automatically the liquid and gas in the pipeline



#### Safety instructions before starting

- 1. Check the compatibility of the medium used, temperature and other operating conditions with the materials and specifications of the product. It is the responsibility of the user to select the right product for the application.
- 2. Solenoid valves can only be used with clean liquids or gases. It is recommended to install a filter before the solenoid valve.
- 3. Never exceed the limits for pressure, temperature or voltage as indicated on the product and/or in the technical documentation.
- 4. The temperature of a solenoid valve coil can rise during operation; this is normal. Overheating will cause smoke and a burning smell. In this case, the power supply must immediately be disconnected.
- It is recommended to install the solenoid in vertical position with the coil facing upwards. This reduces the probability of the collection of debris in the solenoid valve.



#### Installation Instruction

- 1. The solenoid valve can be used in combination with clean liquids or gases. Make sure that the pipe may contain dirt before installing the valve. It is recommended to install a filter (500 μm) before the solenoid valve.
- 2. Be aware of the direction of flow of the medium when installing the valve. Solenoid valves with an arrow on the housing must be connected in the indicated direction. The pipes on both sides of the valve must be securely fastened. Use a wrench for both valve and pipe while tightening to prevent unnecessary stresses in the system. The solenoid valve must be fixed via the provided connection points. Only exert force at the designated areas on the body such as the hexagon; never to the coil or armature. Avoid vibration in the pipes. Use a suitable sealant for threaded connections of the solenoid valve. Avoid the entry of thread sealing material in the valve, this can lead to malfunctioning of the valve.

#### Common faults and inspection, troubleshooting

Problem	Solution				
	1. Check electrical supply with voltmeter. Voltage must agree with nameplate rating.				
Valve fails to operate	2. Check coil with ohmmeter for shorted or opened coil.				
	3. Make sure that pressure complies with nameplate rating.				
The valve is sluggish or	1. Disassemble valve; clean out extraneous matter. The plunger must be free to move without binding.				
inoperative - electrical supply and pressure check out	2. If a diaphragm design, check the diaphragm for tears and/or clogged or obstructed bleed hole or pilot orifice. Torn diaphragm must be replaced.				
	3. Check all springs. If broken, replace.				
External leakage at sleeve flange or joint between body and cover	Check that the sleeve and/or cover screws are torqued to specifications. If leakage persists, replacement of diaphragm assembly or flange O-ring may be required and/or bodies or covers with damaged sealing surfaces may have to be replaced.				
External leakage at speed control device	Check O-rings for damage and replace if necessary.				
	1. Disassemble valve, remove extraneous matter, and clean parts in a mild soap and water solution.				
Internal leakage	2. Examine diaphragm sealing surface for dirt. Remove all foreign particles. Examine orifice for nicks. Damaged parts must be repaired or replaced.				
	3. Check plunger return spring. Replace if broken.				
Chatter or buzz sound	1. Remove power from the coil.				
when energized	2. Inspect the plunger and sleeve forexcessive wear or contamination.				