

Solenoid valves SV、SSV、SV-G、NSV series

Technical data

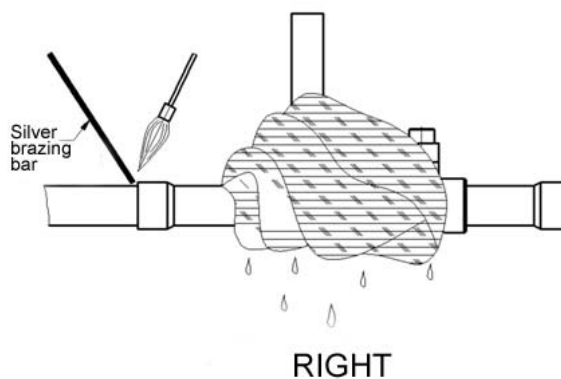
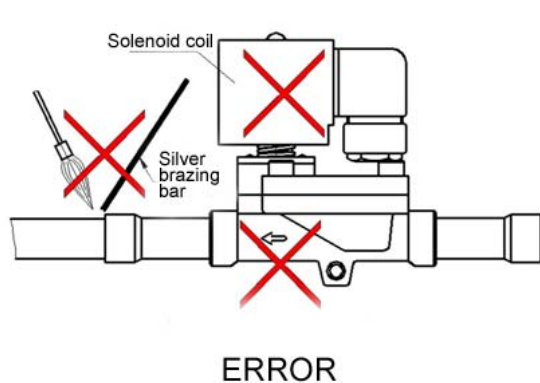
Ambient temperature: -20 ~ 50°C
 Medium temperature: -25 ~ 120°C
 Max. working pressure: 3MPa
 Max. testing pressure: 3.5MPa
 Available medium: R134a、R22、R407C、R404A/507、air、water and oil
 Rated power:
 A.C. : 24V,36V,110V,220V,380V
 D.C. : 12V,24V,110V,220V

Ordering

Explanation	Valve code	Port size	Connection form	Normal opened code	Rated power
Model	SV	13	W	K	AC220V
Explanation	SV: With diaphragms NSV: With pistons SSV: B-flow	Port size (mm)	Omit for flare SAE W: Solder ODF G: Internal thread F: Waist flange	Omit for normal closed valve K: Normal opened valve	Rated power (V)
Notes	The model SV13WK-AC220V is an example in the table.				

Usage

1. The valve must install in horizontal pipe line under vertical position. The flow direction must meet the arrow direction in valve body.
2. The coil input voltage must meet rated input voltage showed on the label. Departure coil from valve when energized in coil is not permitted in order to avoid damage the coil.
3. According to valve with manual function, it must turn manual bar to open the valve before doing system air tightness in order to avoid to damage diaphragm.
4. When brazing the valve with connect tube in system, follow points are very important:
 - a. Before brazing, coil must be departure and use wet fabric cover the valve body to avoid to damage valve part because of high temperature when brazing.
 - b. It must avoid the brazing flame face to valve body.
 - c. It is better to adopt low temperature type silver brazing bar.



Solenoid valves (direct-acting) SV1.6, SV2, SV3 series

Introduction



SV1.6, SV2, SV3 direct-acting solenoid valves feature compact structure, rational design, easy installation and maintenance, and act rapidly. These series can be widely used in refrigeration, pneumatic and hydraulic systems.

Solenoid valves use full-closed magnetic coil and DIN international standard electric plug, so it is characterized by its good insulation, waterproof, moisture proof, anti-vibration and corrosion resistance.

Operating principle

The pull of the solenoid coil opens the valve port directly by lifting the seat disc off the valve seat. While de-energized in the coil, plug stem will drop and close the valve port because of spring force and its weight.

Type & data

Connection form	Model	Connection dimension (in.)	Kv value (m ³ /h)	Opening diff. pressure (MPa)			Dimension (mm)					
				Min.	Max.		Length	Wide	Height			
					A.C.	D.C.						
Flare SAE	SV1.6	1/4	0.15	0	3	2.6	48	33	55			
	SV2	1/4	0.16			1.7				70	30	75
	SV3	1/4	0.23		2.1	80	33	55				
Solder ODF	SV1.6W	1/4	0.15		3				2.6	118	30	75
	SV2W	1/4	0.16						1.7			
	SV3W	1/4	0.23		2.1							
Internal thread	SV1.6A	3/8	0.15	3	2.6	30	33	55				
	SV1.6B	1/8(NPTF)										

The Kv value is the water flow in m³/h at a pressure drop across valve of 0.1MPa, ρ=1000 kg/m³
Letters after the model: "W" means solder ODF, "A" & "B" means different valve bodies.