SV-SY Series Solenoid Valves (With Pistons)

Introduction

SV series two ways normal closed solenoid valves with pistons can be widely used in refrigeration, pneumatic and hydraulic system, also in boiler and fire-fighting, etc.

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

While energized in coil, the electromagnetic power opens the small orifice. Then the pressure in upside of valve reduced, so the pressure difference between both side of piston happen and lead to piston lift to open the main orifice; While de-energized in the coil, plug stem will drop and close the small orifice because of spring force and its weight. The flow media enters into upside of piston through throttle hole, then pressure in both side of piston balances, then the piston will drop and close the main orifice.

Type & data

Connection	Model	Connection Size (mm)	Kv Value (m^3/h)	Opening diff. pressure (MPa)			Dimension (mm)		
				Min.	Max.				
					A.C.	D.C.	L	W	H
Solder	SV8W-SY	Φ10	0.8	0.005	2.6	1.7	113	38	81
ODF	SV10W-SY	Φ12.7	1.4				113	38	81

The Kv value is the water flow in m3/h at a pressure drop across valve of 0.1MPa,ρ=1000 kg/m3

Letter ”G” after the model means internal threads. ”K” after the model means normal opened solenoid valves.

Dimension

(mm)