Irrigation Solenoid Valves
S8990 Series (G1", G11/2", G2", G21/2", G3")

NORMALLY CLOSE
2 WAY
PILOT OPERATED

WATER



GENERALFEATURES

- For irrigation systems
- Full orifice solenoid valves
- Big connection sizes
- Suitable for water
- Working Temperature: -20°C / +50°C
- Not suitable for use with dangerous fluids listed in Group 1
- Minimum operating differential pressure 1 bar
- High reliability, quality and performance; long life
- Wide range of flow rate and orifice options
- On request; flanged types
- Ideal for the automatic control of media in a wide range of applications.
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position withoutaffecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1)

ELECTRICAL CHARACTERISTICS

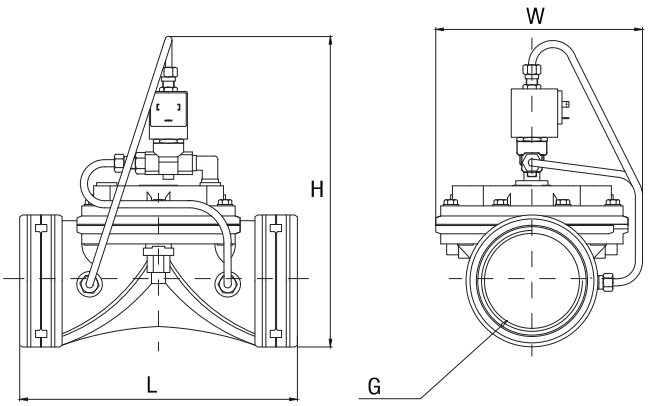
Continuous Duty : ED %100
Coil Insulation Class : H (180°C)
Encapsulation Material : Fiber Glass Reinforced
Ambient Temperature : -20°C, +60°C
Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection: DIN 46340 3-poles connectors (DIN 43650)
Connector Specification: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable 0 6-8 mm)
Electrical Safety : IEC 335
Standard Voltages : AC 12V, 24V, 48V, 110V, 230V
DC 12V, 24V, 48V, 110V, 230V
Other voltages on request;
Voltage Tolerances : AC -15% , +10% DC -5% , +10%
Frequency : 50 Hz (60 Hz...)
On request; connector with LED Specify coil voltage with order

MATERIALS

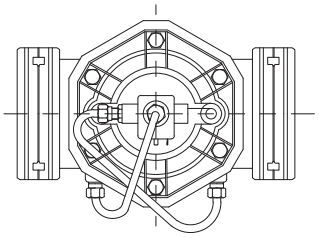
Body : Reinforced Nylon
Internal Parts : Stainless Steel and Brass
Sealing : NBR
Shading Ring : Copper
Seats : Brass
Core Tube : Stainless Steel
Springs : Stainless Steel

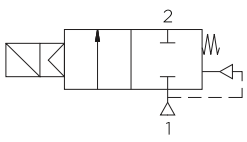
TECHNICAL FEATURES

Max Viscosity : 5°E (~37cST or mm^2/s)
Response Time : Opening Time : 400 ms - 1600 ms
Closing Time : 1000 ms - 2000 ms



Dimensions (mm)			
G	L	H	W
1"	135	197	120
11/2"	140	213	120
2"	185	241	165
21/2"	198	260	165
3"	210	270	176



Solenoid Vave Symbol	Valve Type/ Order no	Connection Size	Orifice Size	Pressure min/max		Kv	Fluid Temperature °C		Seal	Weight
	S8990	G	mm	Bar	Bar	Lt/dk	min	max		kg
	S8990.05	1"	31	1	10	300	-20	50	NBR	0.75
	S8990.07	11/2"	45	1	10	433	-20	50	NBR	0.85
	S8990.08	2"	57	1	10	1066	-20	50	NBR	1.25
	S8990.09	21/2"	74	1	10	1150	-20	50	NBR	1.35
	S8990.10	3"	86	1	10	1733	-20	50	NBR	1.5

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