TORK valve & automation high quality

IRRIGATION SOLENOID VALVES

2/2 Way
Direct Operated
G 3/4", G 1", G 11/2", G 2"

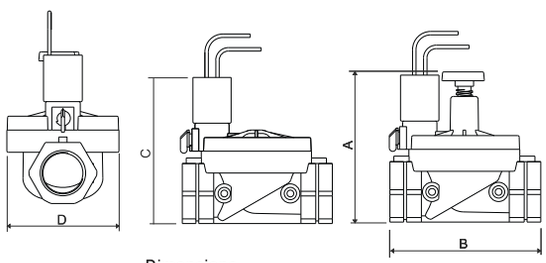
S8910 SERIES

Normally Closed

B

GENERAL FEATURES

- **TORK series S8910 diaphragm irrigation solenoid valves are 2/2 way normally closed and pilot operated**
- **Both the efficient design and the advanced technology plastics they are made of, make the valves strong, with very low maintenance.**
- **Made from synthetic elastomers, Stainless Steel and plastics resistant to corrosion.**
- They work in a wide range of pressure
- **Manual override in all the valves with internal draining.**
- Progressive opening and shut off taht prevents water hammer to
- 12-24 voltages for AC and DC or 6-12V Latching type are available
- Very low head loss with high flows
- Easy maintenance.Total Access to the internal parts from the cover of the valve
- Wide range of possibilities such as electric valves, pressure regulating etc.
- These valves can be use electric remote control, farm and gardening irrigation, advanced computerized can be used for irrigation, level control, filtration systems, fertilization systems, environmental control
- Working Temperature : -10°C / +50°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating differential pressure 0,3 bar**
- 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 without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

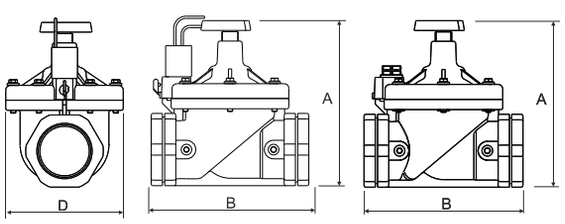


Dimensions

Size	A	B	C	D	Weight
3/4"	105	110	105	81	230g
1"	112	110	112	81	230g

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Coil Encapsulation Material	: Fiber Glass Reinforced
Ambient Temperature	: from -10°C; +60°C
Protection Degree	: IP 65 (EN 60529) with coil duly fitted with the plug connector
Electrical Safety	: IEC 335
Standard Voltages	: For AC 12V, 24V, 110V For DC 12V, 24V,
Other voltages on request;	
Voltage Tolerances	: For AC -15%; +10%, For DC -5%; +10%
Frequency	: 50 Hz, other frequencies on request; (60 Hz)
Specify coil voltage with order	

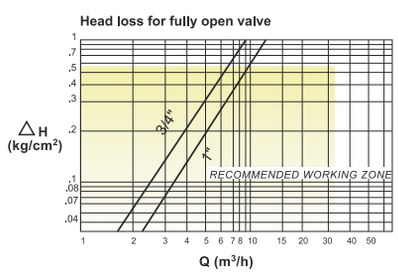


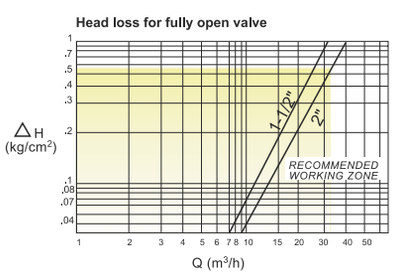
Dimensions

Size	A	B	C	Weight
1-1/2"	180	160	126	740g
2"	190	170	126	790g

MATERIALS IN CONTACT WITH FLUID

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





Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature °C		Seal	Weight
T-IR	S8910	G	mm	bar	bar	lt/min	min	max		(kg)
T-IR 104	S8910.04	3/4"	20	0.3	10	150	-10	50	NBR	0.23
T-IR 105	S8910.05	1"	25	0.3	10	200	-10	50	NBR	0.23
T-IR 107	S8910.07	11/2"	50	0.3	10	530	-10	50	NBR	0.74
T-IR 108	S8910.08	2"	50	0.3	10	670	-10	50	NBR	0.79

Useful Informations

1 bar : 14,5 PSI : 10 mH_2O : 10 N/cm^2 : 1 kg/cm^2 : 100000 Pa, 1 PSI : 69 mbar,1 m^3/h : 4,405 GPM : 16,7 L/d 1 Gallon / minute : 0,227 m^3/h, 0°C : 89,6 F
Sealings: NBR : Nitrile-Butylene Elastomer

TORK valve & automation high quality

IRRIGATION SOLENOID VALVES

2/2 Way
Pilot Operated
G 1", G11/2", G2", G21/2", G3"

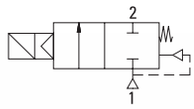
S8990 SERIES

B

GENERAL FEATURES

Normally Closed

- **For irrigation systems**
- **Full orifice solenoid valves**
- **Big connection sizes**
- **Suitable for water and air**
- Working Temperature : -10°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 without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1)



S8990 (N.C)

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Coil Encapsulation Material	: Fiber Glass Reinforced
Ambient Temperature	: from -10°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 Ø 6-8 mm)
Electrical Safety	: IEC 335
Standard Voltages	: For AC 12V, 24V, 48V, 110V, 230V For DC 12V, 24V, 48V, 110 V
Other voltages on request;	
Voltage Tolerances	: For AC -15%; +10%, For DC -5%; +10%
Frequency	: 50 Hz, other frequencies on request; (60 Hz)

On request; connector with LED
Specify coil voltage with order

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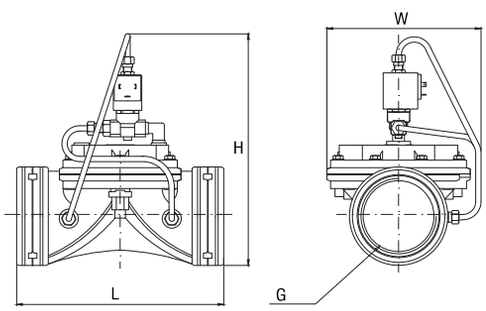
MATERIALS IN CONTACT WITH FLUID

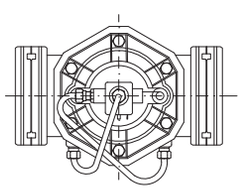
Body	: Reinforced Nylon
Internal Parts	: Stainless Steel and brass
Sealing	: NBR
Shading Ring	: Copper
Seats	: Brass
Core Tube	: Stainless Steel
Springs	: Stainless Steel

On request; sealing can be FPM (VITON), EPDM



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



TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm²/s)
Response Time : Opening Time: 400 ms to ~ 1600 ms,
Closing Time : 1000 ms to ~ 2000 ms
Maximum Allowable Pressure : 15 bar
Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature °C		Seal	Weight
T-GPP	S8990	G	mm	bar	bar	lt/min	min	max		(kg)
T-GPP 105	S8990.05	1"	31	1	10	300	-10	50	NBR	0.75
T-GPP 107	S8990.07	11/2"	45	1	10	433	-10	50	NBR	0.85
T-GPP 108	S8990.08	2"	57	1	10	1066	-10	50	NBR	1.25
T-GPP 109	S8990.09	21/2"	74	1	10	1150	-10	50	NBR	1.35
T-GPP 110	S8990.10	3"	86	1	10	1733	-10	50	NBR	1.5

Useful Informations
1 bar : 14,5 PSI : 10 mH_2O : 10 N/cm^2 : 1 kg/cm^2 : 100000 Pa, 1 PSI : 69 mbar,1 m^3/h : 4,405 GPM : 16,7 L/d 1 Gallon / minute : 0,227 m^3/h, 0°C : 89,6 F
Sealings: NBR : Nitrile-Butylene Elastomer, FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer