Drain Solenoid Valves
S8110 Series (G1/8", G1/4")

NORMALLY CLOSED
2 WAY
DIRECT ACTING
ΔP=0

WATER AIR GAS

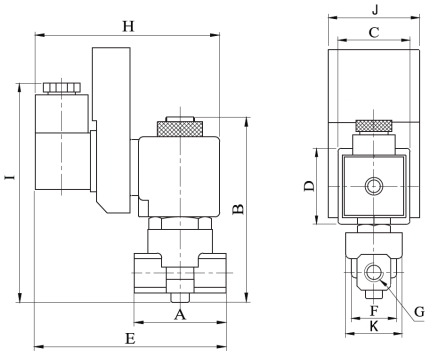
GENERAL FEATURES

• The standby and drainage periods can be regulated by the timer on itself. It is attached to the part of the valve which is drained. The valve is opened to drain on time which the timer is programmed.
• On request; normally open types
• Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)
• Working temperature: -20°C / +80°C
• Not suitable for use with dangerous fluids listed in Group 1
• Don't require any differential pressure to operate
• Compact and low weight valve enabling easy and quick installation
• High reliability, quality and performance; long life, corrosion resistance
• Wide pressure ratings, range of flow rate and orifice options
• On request; solenoid valve can have 1 mounting hole at the bottom of the body.
• Ideal for the automatic control of media in a wide range of applications.
• TORK solenoid valves satisfy relevant 97/23/EC. Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD)
• Some applications; separator main drainage
• Coils interchangeable
• Flow factor Kv of each valve is indicated, so that the flow O 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 12031)



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 : -20°C, +60°C
Protection Degree : P 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection : DIN 46340 3-Poles Connector (DIN 43650)
Connector Specification : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)
Electrical Safety : IEC 335
Standard Voltages : For AC 12V, 24V, 48V, 11DV, 230V
For DC 12V, 24V, 48V, 110 V
On request other voltages
Voltages Tolerance : AC -15%, +10% DC -5%, +10%
Frequency : 50 Hz, other frequencies on request; (60 Hz)
On request; connector with LED Specify coil voltage with order



Dimensions (mm)										
G	A	B	C	D	E	F	H	I	J	K
1/8"	40	83	32	39	95	22.3	76	95	42.3	25.6
1/4"	40	83	32	39	95	22.3	76	95	42.3	25.6

MATERIALS IN CONTACT WITH FLUID

Body : Brass
Internal Parts : Stainless Steel
Sealing : NBR,
Shading Ring : Copper (EN 12735-1)
Seats, Core Tube, Springs : Stainless Steel
On request; sealing can be FPM (VITON),EPDM

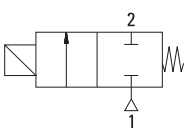
TECHNICAL FEATURES

Max. Viscosity : 5°E (~37cST veya mm^2/s)
Response Time : Opening time : 30 ms
Closing Time : 30 ms
Allowable Pressure:30 bar
Fluid Temperature for FPM (VITON) from -20°C +160 °C, for EPDM from -30°C; +140°C

Coils	Nominal Values	Cold/ Hot	Inrush	Holding	Current (A)	Surface Temperature (°c)
C40012VDC18W	12VDC 18W	COLD	19,56	19,56	1,63	20
		HOT	14,52	14,52	1,21	106
C40024VDC18W	24VDC 18W	COLD	20,88	20,88	0,87	25
		HOT	14,64	14,64	0,61	116
C40110VDC18W	110VDC 18W	COLD	19,96	19,96	0,18	23
		HOT	13,56	13,56	0,123	115
C40012VAC15VA	12VAC 15VA	COLD	23,81	16,43	1,3	25
		HOT	-	15,86	1,262	79
C40024VAC15VA	24VAC 15VA	COLD	25,82	15,02	0,62	22
		HOT	-	13,91	0,57	81
C40110VAC15VA	110VAC 15VA	COLD	30,65	15,17	0,137	24
		HOT	-	13,96	0,126	80
C40230VAC15VA	230VAC 15VA	COLD	31,4	15,64	0,068	25
		HOT	-	14,41	0,063	80
C40230VAC15VA	230VAC 24VA	COLD	45,1	23,92	0,0154	23
		HOT	-	21,62	0,0154	100

Not: Please look catalogues for more details.

STANDARDS
• Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 1.20.3)) are available on request.
• TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max		Kv	Fluid Temperature		Seal	Weight
	S8110	G	mm	Bar	Bar	l/min	°C		NBR	kg
							mm	max		
	S8110.00.018	1/8"	1.8	0	16	1.6	-20	80	✓	0.36
	S8110.01.018	1/4"	1.8	0	16	1.6	-20	80	✓	0.35

TS8110EN260925

Drain Solenoid Valves
S8110 Series (G3/8", G1/2", G3/4", G1")



NORMALLY CLOSED
2 WAY
PILOT OPERATED
ΔP=0,5

WATER AIR GAS

GENERAL FEATURES

• TORK series S8110 diaphragm drain solenoid valves are 2/2 way normally closed and pilot operated
• The standby and drainage periods can be regulated by the timer on itself. It is attached to the part of the valve which is drained. The valve is opened to drain on time which the timer is programmed.
• On request; normally open types
• Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)
• Working Temperature -20°C / +80°C
• Not suitable for use with dangerous fluids listed in Group 1
• Minimum operating differential pressure 0,5 bar
• High reliability, quality and performance; long life, corrosion resistance
• Wide pressure ratings, range of flow rate and orifice options
• Ideal for the automatic control of media in a wide range of applications.
• TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD)
• Some applications; separator main drainage
• 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) and on request; other pipe connections are available INPT (ANSI 12031)

ELECTRICAL CHARACTERISTICS

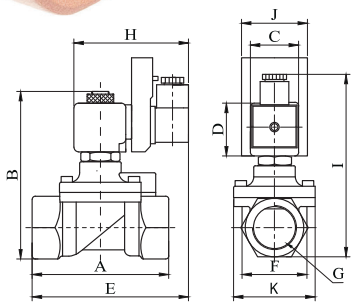
Continuous Duty : ED %100
Coil Insulation Class : H (180°C)
Coil Impregnation : Polyester Fiber Glass
Coil Encapsulation Material : Fiber Glass Reinforced
Ambient Temperature : -20°C, +60°C
Protection Degree : P 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection : DIN 46340 3-Poles Connector (DIN 43650)
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On request other voltages
Voltages Tolerance : AC -15%, +10% DC -5%, +10%
Frequency : 50 Hz, other frequencies on request; (60 Hz)
On request; connector with LED Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

Body : Brass
Internal Parts : Stainless Steel
Sealing : NBR,
Shading Ring : Copper (EN 12735-1)
Seats, Core Tube, Springs : Stainless Steel
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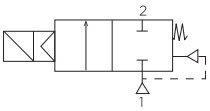
TECHNICAL FEATURES

Max. Viscosity : 5°E (~37cST veya mm²/s)
Response Time : Opening time : 400 ms to - 1600 ms
Closing Time : 1000 ms to - 2000 ms
Allowable Pressure: 25 bar
Fluid Temperature for FPM (VITON) from -20°C +160 °C, for EPDM from -30°C; +140°C



Dimensions (mm)										
G	A	B	C	D	E	F	H	I	J	K
3/8"	72	97.7	32	45	109.3	37.5	76	108	42.3	52.5
1/2"	80	99.2	32	45	110	39.8	76	110	42.3	52.5
3/4"	78	106	32	45	112	41.5	76	118	42.3	52.5
1"	85	112.5	32	45	115	42.5	76	124	42.3	52.5

Coils	Nominal Values	Cold/ Hot	Inrush	Holding	Current (A)	Surface Temperature (°C)
C40012VDC18W	12VDC 18W	COLD	19,56	19,56	1,63	20
		HOT	14,52	14,52	1,21	106
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		HOT	-	21,62	0,0154	100

Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Orifis Size	Pressure min/max		Kv	Fluid Temperature		Seal	Weight
	S8110	G	mm	Bar	Bar	l/min	°C mm	°C max	NBR	kg
	S8110.02	3/8"	12.5	0.5	16	48	-20	80	✓	0,68
	S8110.03	1/2"	14.5	0.5	16	70	-20	80	✓	0,71
	S8110.04	3/4"	17	0.5	16	85	-20	80	✓	0,8
	S8110.05	1"	17	0.5	16	90	-20	80	✓	0,97

Not: Please look catalogues for more details.

STANDARDS
• Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 1.20.3)) are available on request.
• TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

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