

Fuel Oil Solenoid Valve S4011 Series (G1/8", G1/4")

GENERAL FEATURES

- Wide pressure range, flow rate and orific options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)(IEC 85)
Coil Impregnation	: Polyester Fiber Glass
Ambient Temperature	: -10°C, +60°C
Protection Degree	: IP65 (ISO 60529) On request; IP68
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	: AC 12V 15VA, 24V 15VA, 48V 15VA, 230V 15VA, 230V 24VA DC 12V 18W, 24V 18W, 48V 18W, 110V 18W

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

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

OPTIONS

Female connection: BSP; (On request NPT)

- On request CR-Ni plated, PTFE coated done
- On request Atex (exproof) coil.

TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST or mm²/s)

Response Time : Opening time : 30 ms
Closing Time : 30 ms

SEALS FEATURES

NBR : -10°C...+80°C

EPDM : -10°C...+130°C

VITON : -10°C...+160°C

PTFE : -10°C...+160°C

RUBY : -10°C...+160°C

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).

Not: Please look catalogues for more details



NORMALLY OPEN

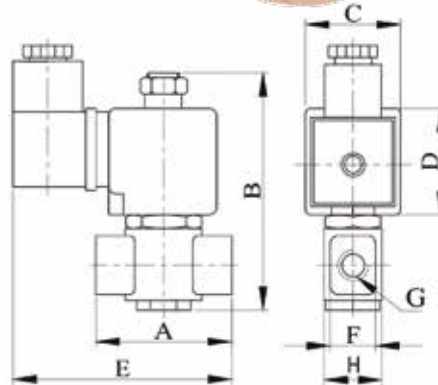
2/2 WAY

DIRECT ACTING

$\Delta P=0$



FUEL



Dimensions (mm)

G	A	B	C	D	E	F	H
1/8"	40	82	32	39	74	18	25.6
1/4"	40	82	32	39	74	18	25.6

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
C40230VAC24VA	230VAC 24VA	COLD	45,1	23,92	0,0154	23
		HOT	-	21,62	0,0154	100

Solenoid Valve Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max		Kv	Seal	Weight
	S4011	G	mm	Bar	Bar	Lt/dk	Ruby	kg
	S4011.00.025	1/8"	2.5	0	30	3.2	✓	0,38
	S4011.00.030	1/8"	3	0	30	4,6	✓	0,38
	S4011.00.032	1/8"	3,2	0	30	5	✓	0,38
	S4011.01.025	1/4"	2,5	0	30	3,2	✓	0,37
	S4011.01.030	1/4"	3	0	22	4,6	✓	0,37
	S4011.01.032	1/4"	3,2	0	20	5	✓	0,37

Fuel Oil Solenoid Valve S4011 Series (G3/8", G3/4", G1", G1 1/4", G1 1/2", G2")

GENERAL FEATURES

- Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam etc...)
- Working Temperature -10°C / +160°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; burners
- 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 (NPT (ANSI 1.20.3))



NORMALLY OPEN
2/2 WAY
PILOT OPERATED
$\Delta P=0,5$



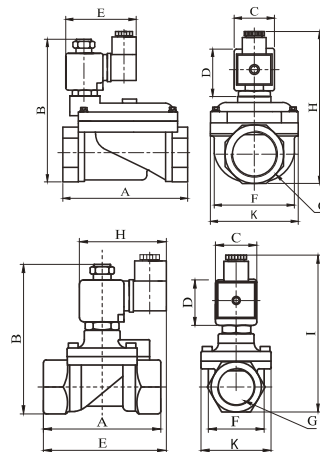
ELECTRICAL CHARACTERISTICS

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On request other voltages

Voltages Tolerance	: AC -15%, +10% DC -5%, +10%
Frequency	: 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket Specify coil voltage with order



Dimensions (mm)								
G	A	B	C	D	E	H	I	K
3/8"	72	97.7	32	45	94.8	76	109	52.5
1/2"	80	99.2	32	45	96.2	76	110.5	52.5
3/4"	78	106	32	45	97.2	76	117.3	52.5
1"	85	112.5	32	45	98.7	76	123.8	52.5
1 1/4"	106.5	124.5	32	45	-	76	135.8	72
1 1/2"	128.5	137	32	45	-	76	148.3	95
2"	149	149	32	45	-	76	160.3	109.7

MATERIALS IN CONTACT WITH FLUID

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

OPTIONS

- Female connection: BSP; (On request NPT)
- On request CR-Ni plated, PTFE coated done
- On request Atex (exproof) coil.

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	: 18 bar

SEALS FEATURES

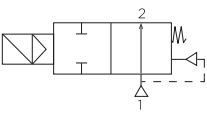
NBR	: -10°C...+80°C
EPDM	: -10°C...+130°C
VITON	: -10°C...+160°C
PTFE	: -10°C...+160°C
RUBY	: -10°C...+160°C

STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 1.20.3)) are available on request.

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	S4011	G	mm	Bar	Bar	l/min	Viton	kg
	S4011.02.125	3/8"	12.5	0.5	12	48	✓	0,69
	S4011.03.145	1/2"	14.5	0.5	12	70	✓	0,73
	S4011.04.170	3/4"	17	0.5	12	90	✓	0,81
	S4011.05.170	1"	17	0.5	12	90	✓	0,98
	S4011.06.460	1 1/4"	30	0.5	12	250	✓	2,65
	S4011.07.460	1 1/2"	39	0.5	12	370	✓	2,55
	S4011.08.460	2"	46	0.5	12	450	✓	2,98