Exproof General Purpose Solenoid Valves SX1070 Series (G3/8", G1/2", G3/4", G1")



ATEX

HIGH PRESSURE

NORMALLY CLOSED

2/2 OPERATED

PILOT OPERATED

ΔP=0,5

WATER AIR GAS

GENERAL FEATURES

- Wide pressure range, flow rate and orifis 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.
- Used for ZONE1 and ZONE2 explosion proof
- Minimum pressure difference is 0,5 bar
- Suitable for fluilds like harmless liquids (water, light oil etc.) gas fluids (air, inert gas etc), diesel, LPG, hydraulic oil etc.

ELECTRICAL CHARACTERISTICS

Continuous Duty : ED %100
Coil Insulation Class : H (180°C)(IEC 85)
Coil Impregnation : Polyester Fiber Glass
Ambient Temperature : -20°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, 110V 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
Sealing : NBR(On request; EPDM, VITON)
Shading Ring : Copper (EN 12735-1)
Seats, Core Tube, Springs: Stainless Steel, Brass

OPTIONS

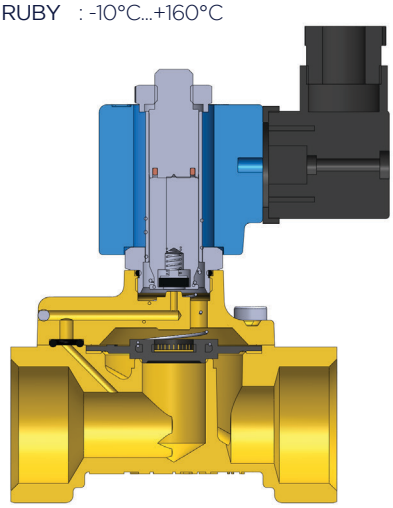
Female connection: BSP; (On request NPT)
- On request CR-Ni plated, PTFE coated done

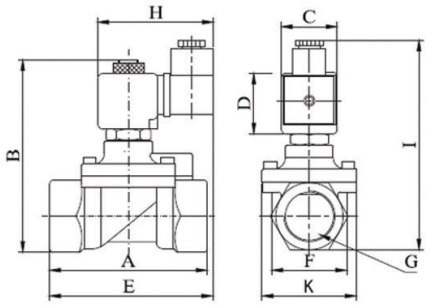
TECHNICAL FEATURES

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

SEALS FEATURES

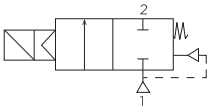
NBR : -20°C...+80°C
EPDM : -30°C...+130°C
VİTON : -20°C...+160°C
PTFE : -10°C...+160°C
RUBY : -10°C...+160°C





Dimensions (mm)									
G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	108
1/2"	79	100	32	45	92	39.8	52	76	110
3/4"	79	107.3	32	45	94	41.5	52	76	118
1"	85	115	32	45	96	42.5	52	76	124

Coils	Nominal Values	Cold/ Hot	Inrush	Holding	Current (A)	Surface Temperature (°C)
C41012VDC18W	12VDC 18W	COLD	19,56	19,56	1,63	20
		HOT	14,52	14,52	1,21	106
C41024VDC18W	24VDC 18W	COLD	20,88	20,88	0,87	25
		HOT	14,64	14,64	0,61	116
C41110VDC18W	110VDC 18W	COLD	19,96	19,96	0,18	23
		HOT	13,56	13,56	0,123	115
C41012VAC15VA	12VAC 15VA	COLD	23,81	16,43	1,3	25
		HOT	-	15,86	1,262	79
C41024VAC15VA	24VAC 15VA	COLD	25,82	15,02	0,62	22
		HOT	-	13,91	0,57	81
C41110VAC15VA	110VAC 15VA	COLD	30,65	15,17	0,137	24
		HOT	-	13,96	0,126	80
C41230VAC15VA	230VAC 15VA	COLD	31,4	15,64	0,068	25
		HOT	-	14,41	0,063	80
C41230VAC24VA	230VAC 24VA	COLD	45,1	23,92	0,0154	23
		HOT	-	21,62	0,0154	100

Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max		Kv	Seal			Weight
								Opsiyon		
	SX1070	G	mm	Bar	Bar	l/min	NBR	Viton	EPDM	kg
	SX1070.02	3/8"	12.5	0.5	40	48	✓	✓	✓	0,69
	SX1070.03	1/2"	14.5	0.5	40	70	✓	✓	✓	0,72
	SX1070.04	3/4"	17	0.5	40	90	✓	✓	✓	0,8
	SX1070.05	1"	17	0.5	40	90	✓	✓	✓	0,98

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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