EVI 7 S9

22 mm30 mmØ9 Solenoid System



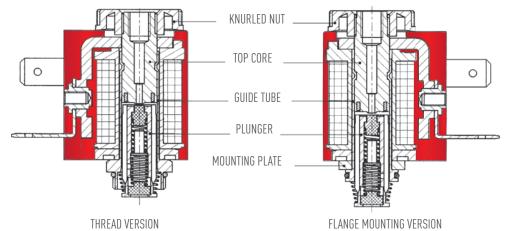




EVI 7 S9 Solenoid System

The EVI7 S9 system by AMISCO includes a wide range of solenoids, coils and operators, designed for pneumatic valves. All solenoids of this system have the guide tube with a diameter of 9 mm and the plunger with a diameter of 8 mm. The system is designed for use with air.

Please contact Amisco for use with other media. All given information are subjected to changes without notice.



COIL

The coil is available in different sizes and with different electrical terminations. Types, power and other characteristics are described in the following pages. All coils feature:

- · heat resistant bobbin moulded with 30% glass filled thermoplastic polyester material
- class H wire 200°C according to IEC 60317-13
- built-in magnetic yoke made by low carbon iron
- encapsulation with high quality specially designed glass filled nylon (thermoset material on demand for 22 mm coil).

The use of other materials is possible upon special agreements. All coils are rated to class F and to IP 65 (with connector). The coil is designed and constructed in accordance to EN 60204.1 and VDE 0580 and it is suitable for industrial ambient conditions. For use in special ambients with high humidity, we suggest the sealed or thermoset version; at any case, please, take contact with Amisco.

The coil is also in conformity with 94/9/EC ATEX for electrical apparatus of group II, category 3 (Ex nA II 3 GD T4 or T5). GAS: Ex nA IIC Tx Gc

DUST: Ex tc IIIC Tx Dc

For further information about Atex versions, see the "ATEX Products" catalogue.

OPERATOR

Plunger and core are made by a magnetic stainless steel specially designed for solenoid applications.

The guide tube is made with brass (stainless steel is possible upon special agreement).

The plunger is normally equipped with NBR rubber seals. Other sealing materials like FKM are available upon demand.

The armature assembly is designed for more than 50x10⁶ cycles.

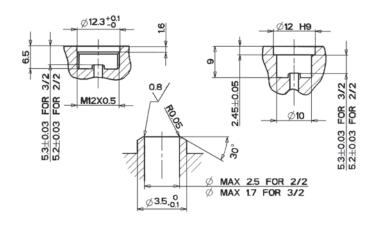
COMPLETE SOLENOID OPERATOR

The coil is fastened to the plungerquide tube by means of a knurled nut for ease of change over without interrupting the pneumatic circuit.

The operator can be fixed to the valve body either by a M12x0.5 thread (thread version), or by a mounting plate with screws (flange version). Amisco doesn't supply the plate.

The suggested interface dimensions of the valve body are shown on the right side.

Any change to the prescribed dimensions can affect the performances of the solenoid.



SOLENOID SYSTEM

for 2/2 and 3/2 way Normally Closed and Normally Open valves

Coil EVI 7/9

Electrical terminations	Code	Characteristics			DC		AC (5	0 Hz)	AC (6	O Hz)
Terminals AMP 6.3x0.8 width 11 mm	0709S	Rated power DC	W	3	4,2	6,5				
Terminals AMP 6.3x0.8 width 11 mm Sealed version	0709G	Inrush power AC	VA				7,5	12,5	6,5	10,5
Terminals AMP 6.3x0.8 width 11 mm Sealed version - EPO	хү 0709Е	Rated power AC	VA				5	8,5	4,2	7
Terminals AMP 6.3x0.8 width 11 mm Sealed version - UL	0709F	Coil temperature rise	°C	35	45	70	45	85	35	70
Terminals DIN 43650 B Sealed version	0709D	Copper temperature rise	°C	40	50	80	55	95	45	80
Flying leads	0709C									

Coil EVI 30/9

Electrical terminations	Code	Characteristics			DC		AC (5	O Hz)	AC (6	0 Hz)
		Rated power DC	W	2		4,5				
Terminals DIN 43650 A	3009D	Inrush power AC	VA				5,5	9	4,5	7,5
Flying leads	3009C	Rated power AC	VA				3	5	2,5	4,2
r tyriig toddo	00070	Coil temperature rise	°C	20		35	20	35	15	30
		Copper temperature rise	°C	25		50	25	45	20	35

Operator S9

	Code	Characteristics								
3/2 way NC Flange	09L	Inlet orifice Ø	mm	1,2	1,4	1,5	1,2	1,5	1,2	1,5
3/2 way NC Thread	09E	Exhaust orifice Ø	mm	1,45	1,45	1,45	1,45	1,45	1,45	1,45
3/2 way No Tilleau	071	Working pressure	bar	0÷10	0÷10	0÷10	0÷10	0÷10	0÷10	0÷10
2/2 way NC Flange	09L	Inlet orifice Ø	mm	1,2	1,4	1,5	1,2	1,5	1,2	1,5
2/2 way NC Thread	09F	Working pressure	bar	0÷10	0÷10	0÷10	0÷10	0÷10	0÷10	0÷10
3/2 way NO Flange (Top inlet)	09L	Inlet orifice Ø	mm	1,45	1,45	1,45	1,45	1,45	1,45	1,45
3/2 way NO Thread (Top inlet)	09F	Working pressure	bar	0÷7	0÷7	0÷10	0÷7	0÷10	0÷7	0÷10
0/0 NOTH 1/D H 1/1	005	Inlet orifice Ø	mm	1,2			1,2		1,2	
3/2 way NO Thread (Bottom inlet)	09F	Working pressure	bar	0÷10			0÷10		0÷10	

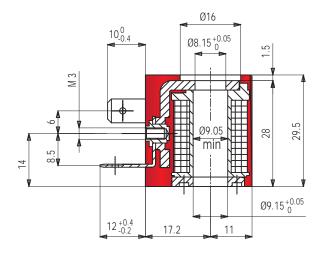
Operator S9 - Large Orifice

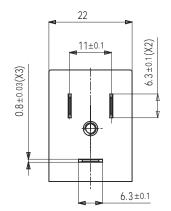
Amisco can also offers a special S9 operator for applications where high flow rates are requested (Inlet orifice $\leq \emptyset$ 6mm). For more information about this application, please take contact with our Technical Department.

Note:

Voltage tolerance:	± 10%	Standard voltages: 24 - 110 - 115 - 220 - 230 VAC
Temperature range:	-20°C ÷ +50°C	12 - 24 VDC
Duty cycle:	100%	Other voltages on request

(M3 Max Torque 0.6Nm)



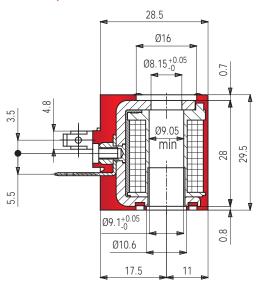


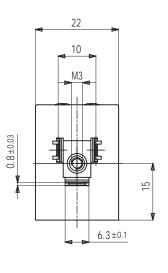


EVI 7/9 DIN 43650-B

CODE 0709D...

(M3 Max Torque 0.6Nm)

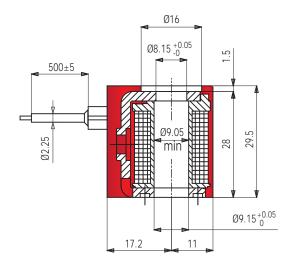


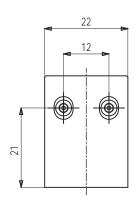




EVI 7/9 Flying Leads

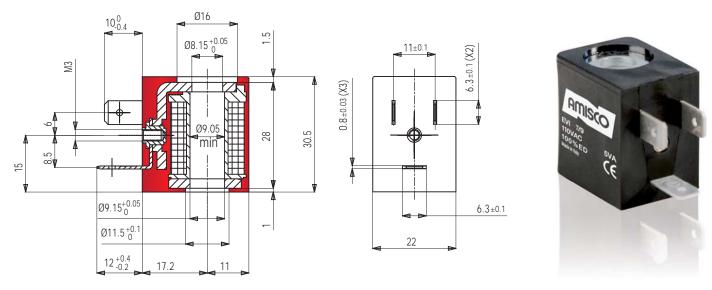
CODE 0709C...







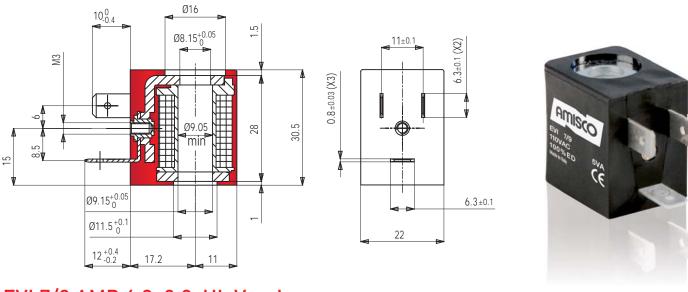
(M3 Max Torque 0.6Nm)



EVI 7/9 AMP 6,3x0,8 Epoxy Version

CODE 0709E...

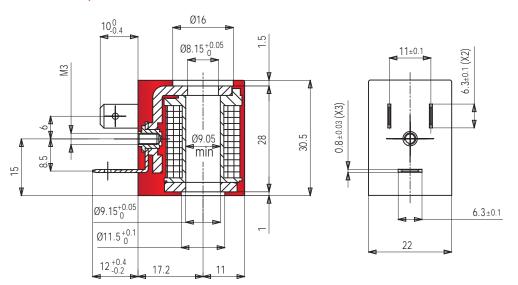
(M3 Max Torque 0.6Nm)



EVI 7/9 AMP 6,3x0,8 UL Version

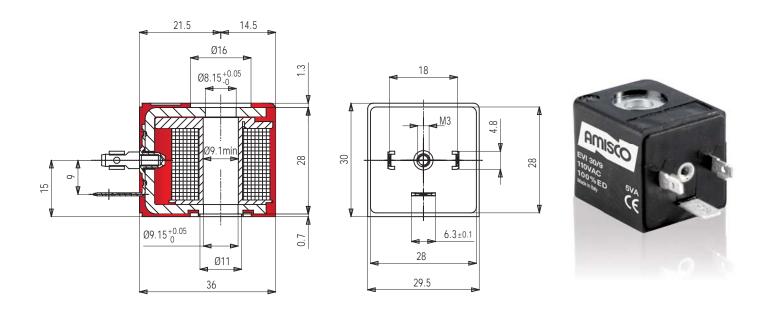
CODE 0709F...

(M3 Max Torque 0.6Nm)



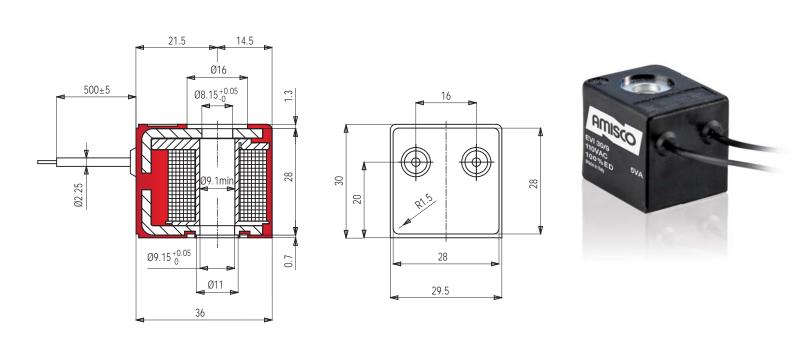


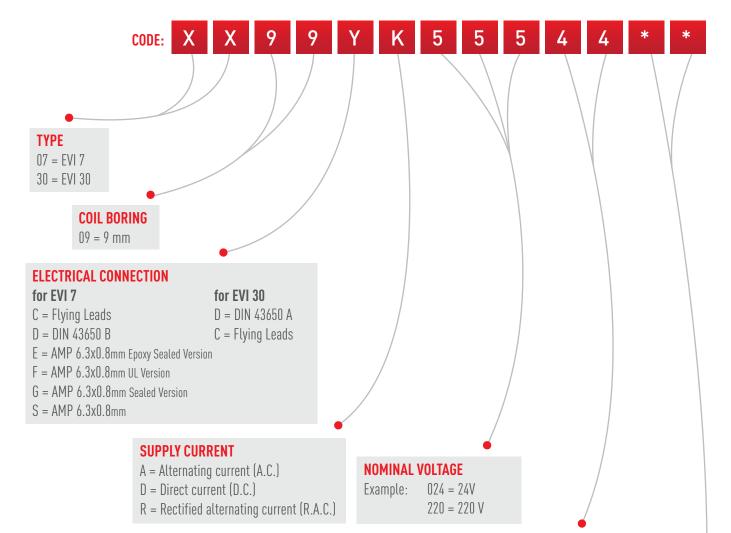
(M3 Max Torque 0.6Nm)



EVI 30/9 Flying Leads

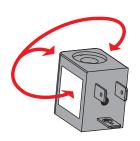
CODE 3009C...





EVI 7 S9 WIND	ING COE	DE
Nominal Voltage	Power	Winding Code
12VDC	3W 4,2W 6,5W	03 06 04
24VDC	3W 4,2W 6,5W	03 06 04
24VAC	5VA 8,5VA	01 02
110VAC	5VA 8,5VA	01 02
230VAC	5VA 8,5VA	03 01

EVI 30 S9 WIN	IDING CO	DDE
Nominal Voltage	Power	Winding Code
12VDC	2W 4,5W	01 05
24VDC	2W 4,5W	01 06
24VAC	3VA 5VA	08 02
110VAC	3VA 5VA	07 02
230VAC	3VA 5VA	04 01



Alternative possibilities for CUSTOMER LOGO

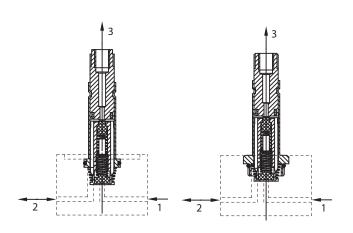
MARKING

ZN = Standard - no logo

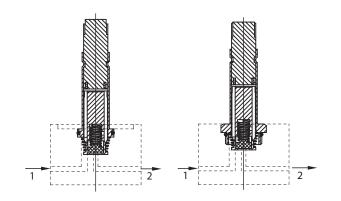
AM = Standard + Amisco logo

... = Customized marking

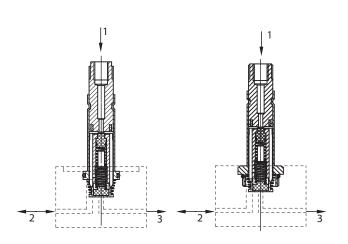
EXAMPLES OF STANDARD APPLICATIONS



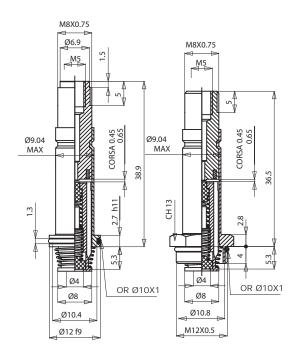
3/2 NC



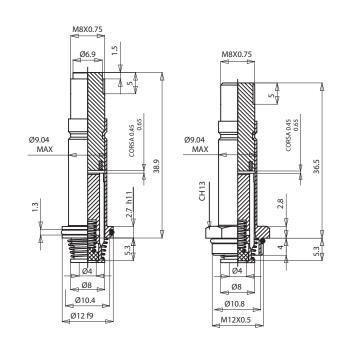
2/2 NC



3/2 NO (Top inlet)

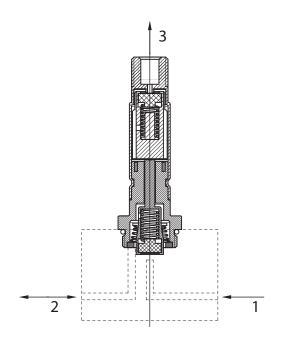


3/2 NC & 3/2 NO (Top Inlet) OPERATOR

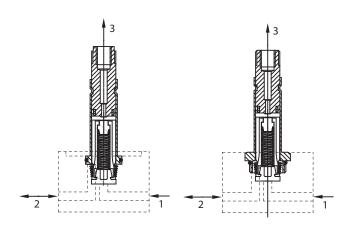


2/2 NC OPERATOR

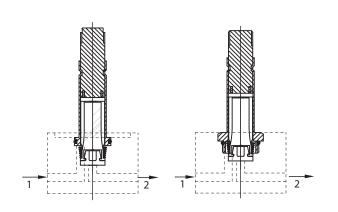
EXAMPLES OF SPECIAL APPLICATIONS



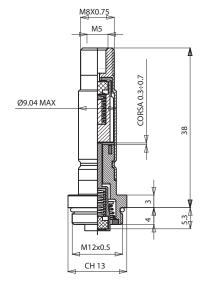
3/2 NO (Bottom inlet)



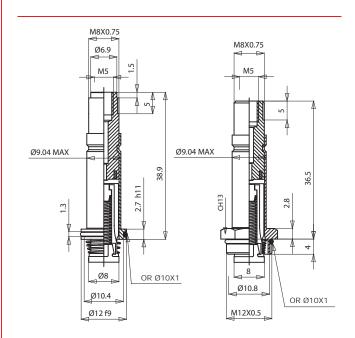
3/2 NC Large Orifice



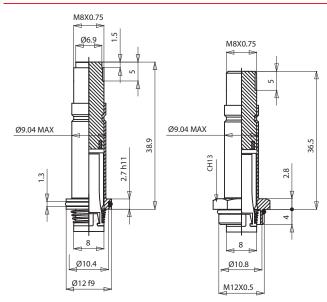
2/2 NC Large Orifice



3/2 NO (Bottom inlet) OPERATOR



3/2 NC Large Orifice Operator



2/2 NC Large Orifice Operator

OPERATOR CODING SPECIFICATIONS

Туре	Function	Inlet orifice Ø	Seals	Operator Code
		1,2 mm	NBR	09L02401A3CNN
			FKM	09L02401A3CVN
	3/2 NC	1,4 mm	NBR	09L07170A3CNN
	3/2 NC	1,4 111111	FKM	09L07171A3CVN
		1,5 mm	NBR	09L02402A3CNN
FLANOF		1,5 111111	FKM	09L02402A3CVN
FLANGE		1,2 mm	NBR	09L02600A2CNN
		1,2 111111	FKM	09L02600A2CVN
	2/2 NC	1,4 mm	NBR	09L02600A2CNN
	Z/Z NC	1,4 111111	FKM	09L02600A2CVN
		1,5 mm	NBR	09L02600A2CNN
			FKM	09L02600A2CVN
	3/2 NO (Top Inlet)	1,45 mm	NBR	09L02403A30NN
			FKM	09L02403A30VN
		1,2 mm	NBR	09F07350A3CNN
			FKM	09F07350A3CVN
	3/2 NC	1,4 mm	NBR	09F07210A3CNN
	3/2 110		FKM	09F07212A3CVN
		1,5 mm	NBR	09F07360A3CNN
			FKM	09F07360A3CVN
		1,2 mm	NBR	09F07370A2CNN
THREAD		ı,∠ mm	FKM	09F07370A2CVN
	2/2 NC	1,4 mm	NBR	09F07370A2CNN
	2/2 110	1,4 111111	FKM	09F07370A2CVN
		1,5 mm	NBR	09F07370A2CNN
		1,5 111111	FKM	09F07370A2CVN
	3/2 NO	1,45 mm	NBR	09F07401A30NN
	(Top Inlet)	1,45 mm	FKM	09F07403A3OVN
	3/2 NO	1,2 mm	NBR	09F11100A30NN
	(Bottom Inlet)	1,2 111111	FKM	09F11101A30VN

Contact Amisco for operator S9 large orifice (< 6 mm), or for special version.

FASTENING NUTS (Note: tightening torque max 0.6 Nm)

Plastic knurled nut	Cod. 540238	MSXO.75. 0 0 0 0 0 0 0 0 0
Plastic knurled nut for protected exhaust	Cod. 540270	28 M8X0.75 1 -
Aluminium knurled nut Weavy washer Ø 8 DIN 137 type A	Cod. 540201 Cod. 535019	Ø15 Ø20 Ø12 Ø12 Ø12 Ø12 Ø12 Ø12 Ø12 Ø13 Ø14 Ø15

Certificates







DECLARATION OF CONFORMITY



We declare under our sole responsibility that the product:

Coil type: EVI 30/9

Nominal voltage: up to 240V Nominal Power: up to 8W[DC] or 10VA[AC] Ambient temperature: up to 50°C Tolerance range on nominal values: ±10%

Is conform to the following directives:

- · 2006/95/EC
- 2011/65/EU

with reference (if applicable) to the following standards:

- EN 60204/1 [2006]
 VDE 0580 [2011]
 EN 60664/1 [2007]

Filippo Rotondo

Paderno Dugnano, 15 January 2013

The data supplied in Amisco catalogues are to be consulted, and pertinent accident prevention regulations are to be followed during product installation and use. Any unsuthorized work performed by purchaser or by third parties can impair its function, and relieves Amisco of all warranty claims and liability for any resulting damage.

Amisco S.p.A. Via Piaggio 70 20037, Paderno Dugnano (MI) – Italy



DECLARATION OF CONFORMITY



We declare under our sole responsibility that the product:

Coil type: EVI 7/9

Nominal voltage: up to 240V Nominal Power: up to 6.5W[DC] or 8.5VA[AC] Ambient temperature: up to 50°C Tolerance range on nominal values: ±10%

Is conform to the following directives:

- · 2006/95/EC
- · 2011/65/EU

with reference (if applicable) to the following standards:

- EN 60204/1 [2006]
- VDE 0580 [2011]
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www.amisco.it

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