



# EVI 7

22 mm Coil System EVI 7/8 EVI 7/9 EVI 7/10

# EVI7 Coil System

The EVI 7 system by Amisco includes a wide range of 22mm coils, designed for pneumatic applications. This coil family is available for tubes with 8, 9 and 10mm diameter.

The coils are available with different voltages and connections: types, power and other features 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 EVI 7/9 coil)
- copper and plastic material used are UL-Listed

The use of other materials is possible upon special agreements. Coils are rated to class F. The coil is designed and constructed in accordance to EN 60335 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; please refer to kit for humid application (details in the following pages)

#### The coil is also in conformity with 2014/34/UE for electrical apparatus of group II, category 3 GAS: Ex ec IIC Tx Gc DUST: Ex tc IIIC Tx Dc

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

Coil can be supplied and marked CSA/UL for Electrical Insulation System (EIS) "E300N", designated by Amisco as AMIH - UL file E343908.

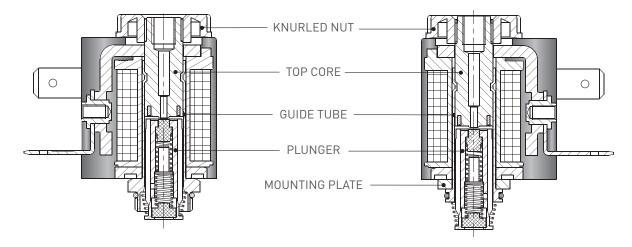
Coil can be supplied and marked EAC for use in Russian Market.

More details about UL and EAC certification can be given on customer request.

The EVI 7/9 coils can be equipped with the suitable plunger guide tube (see S8 - S9 Catalogue) or even in combination with a complete pilot valve. In this case refer to 22mm 30mm pilot valve system catalogue.

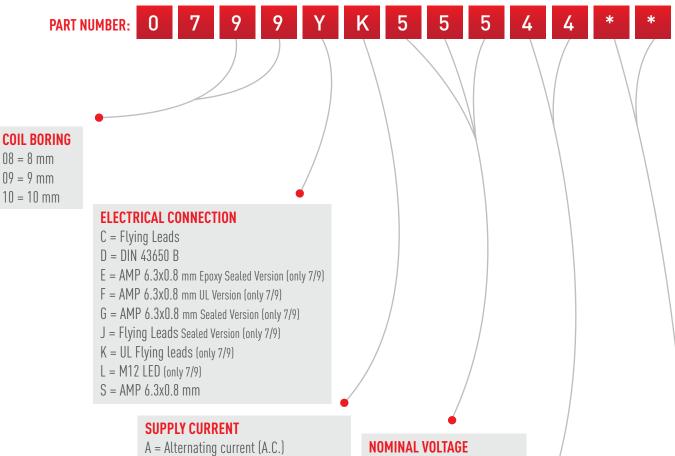
The EVI 7/8 coils can be equipped with the suitable plunger guide tube (see S8 - S9 Catalogue).

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



The specificatioans and drawings contained herein are believed to be correct and are given in good faith, however no liability is accepted therefore. Manufacturer reserves the right to modify said specifications and drawings without notice for technical or commercial reasons.





D = Direct current (D.C.)

R = Rectified alternating current (R.A.C.)

EVI 7/9 WINDING CODE

NUMINAL	VULIAGE
Example:	024 = 24V

220 = 220 V

EVI 7/8 WINDIN	IG CODE	
Nominal Voltage	Power	Winding Code
12VDC	5.5W 2.5W	02 03
24VDC	5.5W 2.5W	02 03
24VAC	6.5VA 3.5VA	01 06
110VAC	6.5VA	01
230VAC	7.5VA	01

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 7/10 WINDING CODE

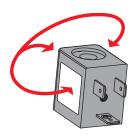
Power	Winding Code
3W	03
6.5W	04
3W	03
6.5W	04
4VA	01
7.5VA	02
4VA	01
7.5VA	02
8VA	01
4VA	02
	3W 6.5W 6.5W 4VA 7.5VA 4VA 7.5VA

#### MARKING

ZN = Standard - no logo

AM = Standard + Amisco logo

... = Customized marking



Alternative possibilities for CUSTOMER LOGO

# **EVI 7** Coil EVI 7/9

# Coil System

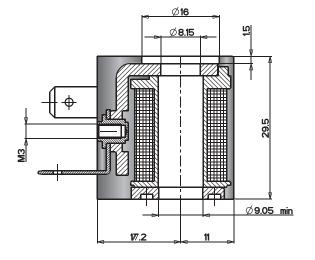
Part Number	Characteristics		DC		DC AC (50 Hz)		io Hz)	AC (60 Hz)	
0709	Rated power DC	W	3	4,2	6,5				
	Inrush power AC	VA				7,5	12,5	6,5	10,5
	Rated power AC	VA				5	8,5	4,2	7
	<b>Coil temperature rise</b> @ 50°C ambient T		35	45	70	45	85	35	70
	Copper temperature rise @ 50°C ambient T	Copper temperature rise @ 50°C ambient T		50	80	55	95	45	80
Coil EVI 7/8									
Part Number	Characteristics			DC		AC (50 Hz)		AC (60 Hz)	
0708	Rated power DC	W	2	3,5	5,5				
	Inrush power AC	VA				10		8,5	
	Rated power AC	VA				6,5		5,5	
	Coil temperature rise @ 50°C ambient T	Coil temperature rise @ 50°C ambient T		35	60	l	65	5	57
	Copper temperature rise @ 50°C ambient T		30 48 76		80		67		
Coil EVI 7/10									
Part Number	Characteristics		DC		DC AC (50 Hz)		AC (6	60 Hz)	
0710	Rated power DC	W	4		6,5				
	Inrush power AC	VA				7,5	11,5	6,5	9,7
	Rated power AC	VA				5	7,5	4,2	6,3
	<b>Coil temperature rise</b> @ 50°C ambient T		45		75	45	70	41	58
	Copper temperature rise @ 50°C ambient T		55		90	55	85	50	70

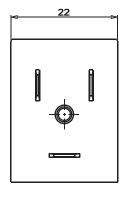
Voltage tolerance:	± 10%	Standard voltages: 24 - 110 - 115 - 220 - 230 VAC
Temperature range:	-40°C ÷ +50°C	12 - 24 VDC
Duty cycle:	100%	Other voltages or power on request

Power levels, and heating for AC coils are related to Amisco solenoid operators or pilot valves
 The coils performance change according to ambient temperature. All the power levels of this page are @ 20°C

# EVI 7/9 AMP 6,3x0,8

#### M3 Torque 0,4÷0,6Nm

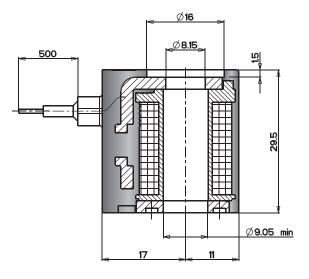


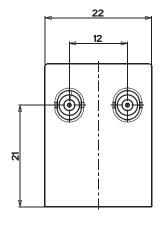




# EVI 7/9 Flying Leads

500mm flying leads as a standard, PVC 105°C Ø2.25





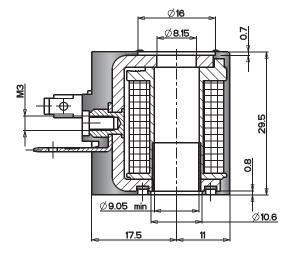


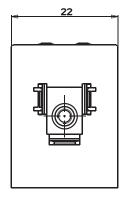
PART NUMBER 0709C...

### EVI 7/9 DIN 43650-B (EN 175301-803 ISO 4400)

PART NUMBER 0709D...

M3 Torque 0,4÷0,6Nm







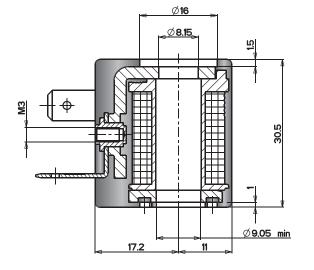
#### - 4 -

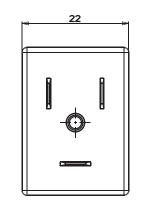
## EVI 7/9 AMP 6,3x0,8 Sealed Version

#### PART NUMBER 0709G...

Available also: - EPOXY encapsulation Part Number 0709E... - UL class H Part Number 0709F...

#### M3 Torque 0,4÷0,6Nm







# EVI 7/9 Flying Leads Sealed Version

500mm flying leads as a standard, PVC 105°C Ø 2.25

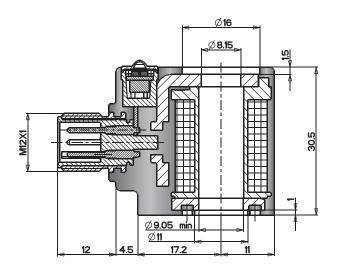
EVI 7/9 M12 LED Epoxy

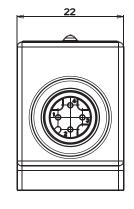
# 



PART NUMBER 0709J...

#### PART NUMBER 0709L...





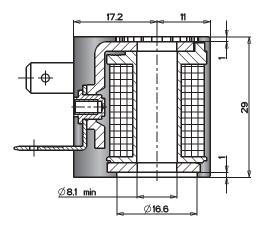


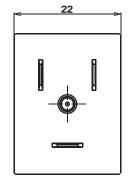
#### Available also: - UL class H Part Number 0709K... Leads AWG 18, UL Style 10126

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# EVI 7/8 AMP 6,3 x 0,8

M3 Torque 0,4 - 0,6 Nm







EVI 7/10 AMP 6,3 x 0,8

M3 Torque 0,4 - 0,6 Nm

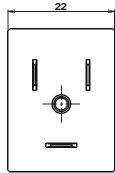
ШЗ

-

11

29.5

Ø10.15 min

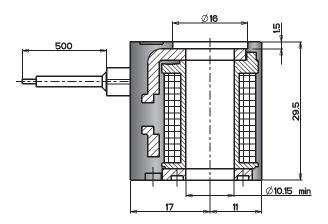


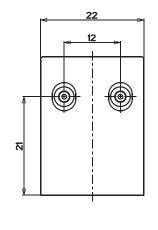


# EVI 7/10 Flying Leads

17.2

500 mm flying leads as a standard, PVC 105°C Ø2.25







PART NUMBER 0710S...

PART NUMBER 0710C...

## KIT FOR SEALED VERSION



We sell, separately from the coil, a kit to complete the sealing of the 22mm coil, to be equipped on our 22mm pilot valve. The kit is composed by two O-Rings, a special nut designed for this application, and the assembly instruction. Complete valve using coil with terminal has been tested positively for IP65.

Complete valve using coil with flying leads has been tested positively for IP67.

### Certifications





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Dissist processing of the second proces	Issued to:	AMISCO SPA
representative samples of Class 155(f) insulation system, designated AMIF.  Have been investigated by Underwriters Laboratories Inc. (UL) or any authorized licensee of UL in accordance with the Standard(s) indicated on this Certificate.  Standard(s) for Safet: UL 1446, STANDARD FOR SYSTEMS OF INSULATING MATERIALS-GENERALEdition 6  Additional Information: See UL On-Line Certification Directory at www.UL.com for additional information.  Only those products bearing the UL Recognized Component Mark should be considered as being covered by UL's Recognized Component Mark spensible provides that have been produced under UL's Component Recognition specified and "Marking" for the principal Recognized Marks. The Recognized Component Mark is required when greefied in the UL Recognized Component Mark spensible Marks. The Recognized Marks. The Recognized Marks The Recogn		
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Director, North American Certification Programs		Look for the UL Recognized Component Mark on the product
	Director, North American Co	crification Programs



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