# EVI 5

### Coil System







## EVI 5 Coil System

The EVI 5 system by AMISCO includes a complete range of electrical coils suitable for solenoid operated pneumatic and hydraulic valves. The EVI 5 coils are designed to fit most of the current applications and offer a wide choice of electrical terminations. The lead version can be equipped with different connectors upon request.

### Pneumatic version

### Hydraulic version





The EVI 5E coil is designed to fit solenoid tubes with 13 or 14 mm dia. The EVI 5M, EVI 5P, EVI 5S and EVI 5T coils are designed to fit solenoid tubes with a diameter of 13 mm. Types, power ratings and more technical specifications are described in the following. The coils can be manufactured with different powers or characteristichs upon special agreement.

### ALL COILS FEATURE:

- Heat resistant bobbin moulded with 30% glass filled thermoplastic polyester material
- Class H 200°C wire according to IEC 60317-13
- Built-in magnetic yoke made by low carbon iron
- Encapsulation with high quality custom designed glass filled polyamide or thermoplastic polyester.

The use of other materials is possible upon special agreements.

All coils are rated to Class F and IP65 (with connector and suitable seals) and IP67 for flying lead version and for continuous service.

These coils are designed in accordance to EN 60204.1 and VDE 0580 and can be declared in conformity with 73/23 EEC directive.

### COIL CODING SPECIFICATIONS



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

EVI 5M S13 WINDING CODE						
Power	Winding Code					
10W	02					
10W	02					
13VA	01					
13VA	01					
13VA	01					
	Power 10W 10W 13VA 13VA					

EVI 5T S13 WINDING CODE					
Nominal Voltage	Power	Winding Code			
12VDC	14W	01			
24VDC	14W	01			

### Alternative possibilities for CUSTOMER LOGO



EVI 5P S13 WINDING CODE					
Nominal Voltage	Power	Winding Code			
12VDC	13W	03			
12VDC	17W	05			
24VDC	13W	03			
24VDC	17W	05			
24VAC	19VA	04			
110VAC	19VA	04			
230VAC	19VA	03			

FVI	5E 9	\$13	WI	אוחא	<b>N</b>	CODE
LVI	JE v	JIJ	VVI	אועא	U	CUDE

Nominal Voltage	Power	Winding Code
12VDC	10W	03
24VDC	10W	03
24VAC	13VA	01
110VAC	13VA	01
230VAC	13VA	01

### EVI 5E S14 WINDING CODE

Nominal Voltage	Power	Winding Code
12VDC	10W	02
24VDC	10W	02
24VAC	17VA	01
110VAC	17VA	01
230VAC	17VA	01

### MARKING

ZN = Standard coil (no logo) AM = Standard coil + Amisco logo ... = Customized marking

## EVI 5M/13







62

29



### FLYING LEADS



code 5M13C...

## EVI 5E/13

DIN 43650 A



### **FLYING LEADS**





5







## EVI 5M/13 EVI 5E/13



STROKE (mm)

Force stroke curve at -10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications.

Coil type EVI 5M/13 and EVI 5E/13 are suitable for pneumatics and hydraulics applications. In the first case, additional information are available in the brochure "EVI 5 S13 solenoid system", as complete solenoid.

#### **TECHNICAL DATA:**

Power: 10 Watt (standard) Force: see the graph Duty Cycle: 100% ED (continuous) at power and temperatures indicated Standard Operating Voltages: 12-24 VDC 24-110-230 VAC Other voltages on request Operating voltage range: max: 10% over the nominal voltage min: according to the specific application Operating temperature range: -20°C ÷ +50°C Coil insulation: Class F

#### **GENERAL CONSTRUCTION:**

According to EN 60204.1 and DIN VDE 0580 **MATERIALS:** Wire class H200°C Encapsulant: glass filled Polyamide PA 6.6 Other materials on request

### **ELECTRICAL CONNECTIONS:**

**Degree of protection:** IP 54 (EN 60529) With connector and suitable seals it can reach: DIN 43650A IP65 Flying leads IP65 / IP67

### EVI 5M/13 EVI 5E/13

FORCE (N)

		DC	AC 50/60 Hz
Rated power DC	W	10	
Inrush power AC	VA		23/19
Rated power AC	VA		13/11
Coil temperature rise	°C	60	70
Copper temperature rise	°C	100	100

Above-mentioned AC consumption have

to be intended only as indicative.

They may change according to the tube design solutions.





## EVI 5P/13

### DIN 43650 A \_

code 5P13D...







### AMP JUNIOR

code 5P13A...







### KOSTAL M27x1

code 5P13K...







### **FLYING LEADS**

code 5P13C...







## EVI 5P/13



Force stroke curve at –10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications. **This graph is referred at 13W version.** 

### EVI 5P/13

		DC		DC AC 50,		/60 Hz
Rated power DC	W	13	17			
Inrush power AC	VA			32/27	37/31	
Rated power AC	VA			19/16	22/18	
Coil temperature rise	С	55	70	45/36	55/45	
Copper temperature rise	°C	85	105	86/72	100/85	

Above-mentioned AC consumption have to be intended only as indicative. They may change according to the tube design solutions. Coil type EVI 5P/13 is suitable for pneumatics and hydraulics.

#### **TECHNICAL DATA:**

Power: 13 Watt (pneumatic std) 17 Watt (hydraulic std)
Force: see the graph
Duty Cycle: 100% ED (continuous)
at power and temperatures indicated
Standard operating voltages: 12-24 VDC 24-110-230 VAC
Other voltages on request
Operating voltage range:
max: 10% over the nominal voltage
min: according to the specific application
Operating temperature range: -20°C ÷ +50°C
Coil insulation: class F

#### **GENERAL CONSTRUCTION:**

According to EN 60204.1 and DIN VDE 0580 **MATERIALS:** Wire class H200°C Encapsulant: glass filled Polyamide 6.6 Other materials on request

#### **ELECTRICAL CONNECTIONS:**

Degree of protection: IP 54 (EN 60529)With connector and suitable seals it can reach:DIN 43650AIP65FLYING LEADSIP67KOSTAL M27x1 integratedIP67AMP JUNIOR integratedIP65



## EVI 5T/13

### DIN 43650 A

code 5T13D...





## EVI 5T/13



Force stroke curve at -10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications.

### EVI 5T/13

		DC
Rated power DC	W	14
Coil temperature rise	Ĵ°	70
Copper temperature rise	°C	100

Coil type EVI 5T/13 is suitable for pneumatics and hydraulics.

#### **TECHNICAL DATA:**

Power: 14 Watt (standard) Force: see the graph Duty Cycle: 100% ED (continuous) at power and temperatures indicated Standard operating voltages: 12-24 VDC Other voltages on request Operating voltage range: max: 10% over the nominal voltage min: according to the specific application Operating temperature range: -20°C ÷ +50°C Coil insulation: Class F

### **GENERAL CONSTRUCTION:**

According to EN 60204.1 and DIN VDE 0580 **MATERIALS:** Wire class H200°C Encapsulant: glass filled Polyamide PA 6.6 Other materials on request

#### **ELECTRICAL CONNECTIONS:**

Degree of protection: IP 54 (EN 60529) With connector and suitable seals it can reach: DIN 43650A IP65



## EVI 55/13

### DIN 43650 A

code 5S13D...







## EVI 55/13



Force stroke curve at -10% nominal voltage and stabilized duty temperature. This graph has to be intended as an indication. In fact it can change according to the specific applications.

### EVI 5S/13

		DC
Rated power DC	W	20
Coil temperature rise	Ĵ°	75
Copper temperature rise	Ĵ°	110

Coil type EVI 5S/13 is suitable for pneumatics and hydraulics.

#### TECHNICAL DATA:

Power: 20 Watt (standard) Force: see the graph Duty cycle: 100% ED (continuous) at power and temperatures indicated Standard operating voltages: 12-24 VDC Other voltages on request Operating voltage range: max: 10% over the nominal voltage min: according to the specific application Operating temperature range: -20°C ÷ +50°C Coil insulation: Class F

#### **GENERAL CONSTRUCTION:**

According to EN 60204.1 and DIN VDE 0580 **MATERIALS:** Wire class H200°C Encapsulant: glass filled Polyamide PA 6.6 Other materials on request

#### **ELECTRICAL CONNECTIONS:**

Degree of protection: IP 54 (EN 60529)With connector and suitable seals it can reach:DIN 43650AIP 65FLYING LEADSIP 67AMP JUNIOR integratedIP65DEUTSCH DT04 integratedIP69KAMP SUPERSEAL integratedIP69KMETRIPACK 2 integratedIP69K





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