EVI 7

22 mm Coil System

EVI 7/8  EVI 7/9  EVI 7/10
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 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 thermostet 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 (Ex nA II 3 GD T3, T4, T5)
GAS: Ex nA IIC Tx Gc
DUST: Ex tc IIIC T4c 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.
**COIL CODING SPECIFICATIONS**

**PART NUMBER:** 0799YK5544**

- **COIL BORING**
  - 08 = 8 mm
  - 09 = 9 mm
  - 10 = 10 mm

- **ELECTRICAL CONNECTION**
  - C = Flying Leads
  - D = DIN 43650 B
  - E = AMP 6.3x0.8 mm Epoxy Sealed Version (only 7/9)
  - F = AMP 6.3x0.8 mm UL Version (only 7/9)
  - G = AMP 6.3x0.8 mm Sealed Version (only 7/9)
  - J = Flying Leads Sealed Version (only 7/9)
  - K = UL Flying leads (only 7/9)
  - L = M12 LED (only 7/9)
  - S = AMP 6.3x0.8 mm

- **SUPPLY CURRENT**
  - A = Alternating current (A.C.)
  - D = Direct current (D.C.)
  - R = Rectified alternating current (R.A.C.)

- **NOMINAL VOLTAGE**
  Example: 024 = 24V
  220 = 220 V

### EVI 7/8 WINNING CODE

<table>
<thead>
<tr>
<th>Nominal Voltage</th>
<th>Power</th>
<th>Winding Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>5.5W</td>
<td>02</td>
</tr>
<tr>
<td></td>
<td>2.5W</td>
<td>03</td>
</tr>
<tr>
<td>24VDC</td>
<td>5.5W</td>
<td>02</td>
</tr>
<tr>
<td></td>
<td>2.5W</td>
<td>03</td>
</tr>
<tr>
<td>24VAC</td>
<td>6.5VA</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>3.5VA</td>
<td>06</td>
</tr>
<tr>
<td>110VAC</td>
<td>6.5VA</td>
<td>01</td>
</tr>
<tr>
<td>230VAC</td>
<td>7.5VA</td>
<td>01</td>
</tr>
</tbody>
</table>

### EVI 7/9 WINNING CODE

<table>
<thead>
<tr>
<th>Nominal Voltage</th>
<th>Power</th>
<th>Winding Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>3W</td>
<td>03</td>
</tr>
<tr>
<td></td>
<td>4.2W</td>
<td>06</td>
</tr>
<tr>
<td></td>
<td>6.5W</td>
<td>04</td>
</tr>
<tr>
<td>24VDC</td>
<td>3W</td>
<td>03</td>
</tr>
<tr>
<td></td>
<td>4.2W</td>
<td>06</td>
</tr>
<tr>
<td></td>
<td>6.5W</td>
<td>04</td>
</tr>
<tr>
<td>24VAC</td>
<td>5VA</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>8.5VA</td>
<td>02</td>
</tr>
<tr>
<td>110VAC</td>
<td>5VA</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>8.5VA</td>
<td>02</td>
</tr>
<tr>
<td>230VAC</td>
<td>5VA</td>
<td>03</td>
</tr>
<tr>
<td></td>
<td>8.5VA</td>
<td>01</td>
</tr>
</tbody>
</table>

### EVI 7/10 WINNING CODE

<table>
<thead>
<tr>
<th>Nominal Voltage</th>
<th>Power</th>
<th>Winding Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>3W</td>
<td>03</td>
</tr>
<tr>
<td></td>
<td>6.5W</td>
<td>04</td>
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<tr>
<td>24VDC</td>
<td>3W</td>
<td>03</td>
</tr>
<tr>
<td></td>
<td>6.5W</td>
<td>04</td>
</tr>
<tr>
<td>24VAC</td>
<td>4VA</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>7.5VA</td>
<td>02</td>
</tr>
<tr>
<td>110VAC</td>
<td>4VA</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>7.5VA</td>
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<tr>
<td>230VAC</td>
<td>8VA</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>4VA</td>
<td>02</td>
</tr>
</tbody>
</table>

- **MARKING**
  - ZN = Standard - no logo
  - AM = Standard + Amisco logo
  - ... = Customized marking
# EVI 7

## Coil System

### Coil EVI 7/9

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Characteristics</th>
<th>DC</th>
<th>AC (50 Hz)</th>
<th>AC (60 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0709..</td>
<td>Rated power DC</td>
<td>3</td>
<td>4,2</td>
<td>6,5</td>
</tr>
<tr>
<td></td>
<td>Inrush power AC</td>
<td>7,5</td>
<td>12,5</td>
<td>6,5</td>
</tr>
<tr>
<td></td>
<td>Rated power AC</td>
<td>5</td>
<td>8,5</td>
<td>4,2</td>
</tr>
<tr>
<td></td>
<td><strong>Coil temperature rise @50°C ambient T</strong></td>
<td>35</td>
<td>45</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td><strong>Copper temperature rise @50°C ambient T</strong></td>
<td>40</td>
<td>50</td>
<td>80</td>
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</table>

### Coil EVI 7/8

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Characteristics</th>
<th>DC</th>
<th>AC (50 Hz)</th>
<th>AC (60 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0708...</td>
<td>Rated power DC</td>
<td>2</td>
<td>3,5</td>
<td>5,5</td>
</tr>
<tr>
<td></td>
<td>Inrush power AC</td>
<td>10</td>
<td>8,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated power AC</td>
<td>6,5</td>
<td>5,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Coil temperature rise @50°C ambient T</strong></td>
<td>22</td>
<td>35</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td><strong>Copper temperature rise @50°C ambient T</strong></td>
<td>30</td>
<td>48</td>
<td>76</td>
</tr>
</tbody>
</table>

### Coil EVI 7/10

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Characteristics</th>
<th>DC</th>
<th>AC (50 Hz)</th>
<th>AC (60 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0710...</td>
<td>Rated power DC</td>
<td>4</td>
<td>6,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inrush power AC</td>
<td>7,5</td>
<td>11,5</td>
<td>6,5</td>
</tr>
<tr>
<td></td>
<td>Rated power AC</td>
<td>5</td>
<td>7,5</td>
<td>4,2</td>
</tr>
<tr>
<td></td>
<td><strong>Coil temperature rise @50°C ambient T</strong></td>
<td>45</td>
<td>75</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td><strong>Copper temperature rise @50°C ambient T</strong></td>
<td>55</td>
<td>90</td>
<td>55</td>
</tr>
</tbody>
</table>

## Notes:

- Voltage tolerance: ± 10%
- Temperature range: -40°C ÷ +50°C
- Duty cycle: 100%
- 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
- All the previous and following data can be modified by Amisco at any time

## Standard Voltages:
- 24 - 110 - 115 - 220 - 230 VAC
- 12 - 24 VDC

## Other Voltages or Power on Request
EVI 7/9 AMP 6,3x0,8

M3 Torque 0,4÷0,6Nm

PART NUMBER 0709S...

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)

M3 Torque 0,4÷0,6Nm

PART NUMBER 0709D...
EVI 7/9 AMP 6,3x0,8 Sealed Version

M3 Torque 0,4÷0,6Nm

PART NUMBER 0709G...

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

EVI 7/9 Flying Leads Sealed Version

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

PART NUMBER 0709J...

Available also:
- UL class H Part Number 0709K...

EVI 7/9 M12 LED Epoxy

PART NUMBER 0709L...
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

EVI 7/10 Flying Leads

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

**Amisco S.p.A.**
Tel. +39 02.9900181

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 unauthorized work performed by purchaser or by third parties can impair its functions, and relieves Amisco of all warranty claims and liability for any resulting damage.

20037, Paderno Dugnano (MI) – Italy
www.amisco.it
Via Piaggio 70
Fax +39 02.99001860

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**Coil type: EVI 7/8**

Nominal voltage: up to 240V
Nominal Power: up to 6.5W [DC] or 9VA [AC]
Ambient temperature: -40 ÷ +50 °C
Tolerance range on nominal values: ±10%

Type of connection and other information are available on Amisco catalogues or on request.

Is conform to the following directives:
- **2014/35/UE LV**
- **2011/65/UE RoHS**

with reference (if applicable) to the following harmonized standards:
- EN 12100 [2010]
- EN 60204-1 [2006]
- EN 60664-1 [2007]
- VDE 0580 [2011]

Filippo Rotondo
Amisco Technical Division Manager

Paderno Dugnano, 20 April 2016

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Filippo Rotondo
Amisco Technical Division Manager

Paderno Dugnano, 6 December 2016

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**Coil type: EVI 7/10**

Nominal voltage: up to 240V
Nominal Power: up to 6.5W [DC] or 9VA [AC]
Ambient temperature: -40 ÷ +50 °C
Tolerance range on nominal values: ±10%

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Filippo Rotondo
Amisco Technical Division Manager

Paderno Dugnano, 20 April 2016

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In accordance with SERCONS INTERNATIONAL
Russian Certification Authority in Europe
the company:
AMISCO S.p.A
Via Piaggio 70,
20037, Paderno Dugnano (MI), Italy

fulfills the necessary requirements to be certified according to EAC regulations.

Valid until: 22.05.2023

SERCONS  INTERNATIONAL
General Director of
the company:
AMISCO S.p.A
Via Piaggio 70,
20037, Paderno Dugnano (MI), Italy

"SERCONS GROUP"