EVI 30

30 mm Coil System
EVI 30/8 – EVI 30/9 – EVI 30/10
The EVI 30 system by Amisco includes a wide range of 30mm 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
- 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 for EVI 30/9 M12 LED)
- copper and plastic material used are UL-Listed

The use of other materials is possible upon special agreements. Coils are rated to F class. The coil is designed and constructed in accordance to EN 60204.1 and VDE 0580 and it is suitable for industrial ambient conditions.

The coil is also in conformity with 2014/34/UE for electrical apparatus of Group II, category 3 (Ex nA II 3 GD T5 ot T6).

GAS: Ex nA IIC Tx Gc
DUST: Ex tc IIIC Tx Dc

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.

**COMPLETE SOLENOID OPERATOR AND PILOT VALVE**

The EVI 30/9 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 30/8 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:** 3099Y55544*

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

**ELECTRICAL CONNECTION**
- C = Flying Lead (only for EVI 30/9 & EVI30/10)
- D = DIN 43650 A
- L = M12 LED (only for EVI 30/9)
- F = DIN 43650 A UL Version (only for EVI 30/9)
- H = Flying Leads UL Version (only for EVI 30/9)
- R = DIN 43650 A with Earth Terminal on Top Side (only for EVI 30/9)

**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 = 220V

<table>
<thead>
<tr>
<th>Type</th>
<th>Nominal Voltage</th>
<th>Power</th>
<th>Winding Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVI 30/8</td>
<td>12VDC</td>
<td>4W</td>
<td>05</td>
</tr>
<tr>
<td></td>
<td>24VDC</td>
<td>4W</td>
<td>05</td>
</tr>
<tr>
<td></td>
<td>24VAC</td>
<td>4VA</td>
<td>06</td>
</tr>
<tr>
<td></td>
<td>110VAC</td>
<td>4VA</td>
<td>05</td>
</tr>
<tr>
<td></td>
<td>230VAC</td>
<td>5VA</td>
<td>01</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>EVI 30/9 WINDING CODE</th>
<th>Nominal Voltage</th>
<th>Power</th>
<th>Winding Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>2W</td>
<td>01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.5W</td>
<td>05</td>
<td></td>
</tr>
<tr>
<td>24VDC</td>
<td>2W</td>
<td>01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.5W</td>
<td>06</td>
<td></td>
</tr>
<tr>
<td>24VAC</td>
<td>3VA</td>
<td>08</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5VA</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>110VAC</td>
<td>3VA</td>
<td>07</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5VA</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>230VAC</td>
<td>3VA</td>
<td>04</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5VA</td>
<td>01</td>
<td></td>
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<table>
<thead>
<tr>
<th>EVI 30/10 WINDING CODE</th>
<th>Nominal Voltage</th>
<th>Power</th>
<th>Winding Code</th>
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</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>6W</td>
<td>03</td>
<td></td>
</tr>
<tr>
<td>12VAC</td>
<td>5VA</td>
<td>02</td>
<td></td>
</tr>
<tr>
<td>24VDC</td>
<td>6W</td>
<td>07</td>
<td></td>
</tr>
<tr>
<td>24VAC</td>
<td>9VA</td>
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<td></td>
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<tr>
<td>110VAC</td>
<td>5VA</td>
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<td></td>
</tr>
<tr>
<td>230VAC</td>
<td>5VA</td>
<td>01</td>
<td></td>
</tr>
</tbody>
</table>

**MARKING**
- ZN = Standard - no logo
- AM = Standard + Amisco logo
- ... = Customer specifications

Alternative possibilities for **CUSTOMER LOGO**
# EVI 30 Coil System

## Coil EVI 30/9

<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>3009...</td>
<td>Rated power DC</td>
<td>2 W</td>
<td>4,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inrush power AC</td>
<td>5,5 VA</td>
<td>9</td>
<td>4,5</td>
</tr>
<tr>
<td></td>
<td>Rated power AC</td>
<td>3 VA</td>
<td>2,5</td>
<td>4,2</td>
</tr>
<tr>
<td></td>
<td>Coil temperature rise @ 50°C ambient T</td>
<td>20</td>
<td>35</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Copper temperature rise @ 50°C ambient T</td>
<td>25</td>
<td>50</td>
<td>25</td>
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</tbody>
</table>

## Coil EVI 30/8

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Characteristics</th>
<th>DC</th>
<th>AC (50 Hz)</th>
<th>AC (60 Hz)</th>
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</thead>
<tbody>
<tr>
<td>3008...</td>
<td>Rated power DC</td>
<td>4 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inrush power AC</td>
<td>7,5 VA</td>
<td>6,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated power AC</td>
<td>4 VA</td>
<td>3,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coil temperature rise @ 50°C ambient T</td>
<td>35</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Copper temperature rise @ 50°C ambient T</td>
<td>48</td>
<td>35</td>
<td>30</td>
</tr>
</tbody>
</table>

## Coil EVI 30/10

<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>3010...</td>
<td>Rated power DC</td>
<td>2 DC</td>
<td>4,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inrush power AC</td>
<td>5,5 AC</td>
<td>9</td>
<td>4,5</td>
</tr>
<tr>
<td></td>
<td>Rated power AC</td>
<td>3 AC</td>
<td>2,5</td>
<td>4,2</td>
</tr>
<tr>
<td></td>
<td>Coil temperature rise @ 50°C ambient T</td>
<td>26</td>
<td>56</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Copper temperature rise @ 50°C ambient T</td>
<td>31</td>
<td>62</td>
<td>26</td>
</tr>
</tbody>
</table>

## Note:

- Voltage tolerance: ± 10%
- Temperature range: -40°C ÷ +50°C
- Duty cycle: 100%
- Standard voltages: 12 - 24 VDC
- Other voltages and power levels are available 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.
- All the previous and following data can be modified by Amisco at any time
EVI 30/9 DIN 43650A  (EN 175301-803 ISO 4400)  PART NUMBER 3009D...
(M3 Torque 0,4 + 0,6Nm)
Available also: UL Classe H p/n 3009F..

EVI 30/9 Flying Leads
PART NUMBER 3009C...
500mm flying leads as a standard, PVC 105°C Ø2.25
Available also: UL Classe H p/n 3009H.. Leads AWG 18, UL Style 10126

EVI 30/9 M12 LED
PART NUMBER 3009L...
**EVI 30/9 DIN 43650A** (EN 175301-803 ISO 4400) with Earth Terminal on Top Side  
**PART NUMBER 3009R...**  
(M3 Torque 0.4 ÷ 0.6Nm)

**EVI 30/8 DIN 43650A** (EN 175301-803 ISO 4400)  
**PART NUMBER 3008D...**  
(M3 Torque 0.4 ÷ 0.6Nm)

For more information please contact Amisco.
EVI 30/10 DIN 43650A  (EN 175301-803 ISO 4400)  
(M3 Torque 0.4 ÷ 0.6Nm)

EVI 30/10 Flying Leads

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

### Coil type: EVI 30/9

**Nominal voltage:** up to 240V  
**Nominal Power:** up to 8W (DC) or 10VA (AC)  
**Ambient temperature:** -40 to +50 °C  
**Tolerance range on nominal values:** ±10%

*Type of connections and other information are available in Amisco catalogues or on request*

Amisco S.p.A.  
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Tel. +39 02.9900181  
Fax +39 02.99001860  
www.amisco.it

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

*We declare under our sole responsibility that the product:

Filippo Rotondo  
Amisco Technical Division Manager  
Paderno Dugnano, 20 April 2016*

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### Coil type: EVI 30/8

**Nominal voltage:** up to 240V  
**Nominal Power:** up to 8W (DC) or 10VA (AC)  
**Ambient temperature:** -40 to +50 °C  
**Tolerance range on nominal values:** ±10%

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### Coil type: EVI 30/10

**Nominal voltage:** up to 240V  
**Nominal Power:** up to 8W (DC) or 10VA (AC)  
**Ambient temperature:** -40 to +50 °C  
**Tolerance range on nominal values:** ±10%

*Type of connections and other information are available in Amisco catalogues or on request*

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SERCONS INTERNATIONAL — Certification Authority

SERCONS INTERNATIONAL

Russian Certification Authority in Europe

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