EVI 5 S13
Solenoid System
The EVI5 S13 system by AMISCO includes a wide range of solenoid operators designed for pneumatic valves. All solenoids of this system have the guide tube with a diameter of 13 mm and the hexagonal plunger CH 11. The system is designed for use with air.

Please contact Amisco for use with other media.

**COIL**

The coil is available 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
- 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, please, take contact with Amisco.

The data reported on this catalogue are referred to EVI 5E and 5M. We have also other type of coil EVI 5, with higher performance, available. Please refer to EVI 5 coil systrem catalogue and contact Amisco for further details.

**SOLENOID OPERATOR**

Cores are made by a magnetic stainless steel specially designed for solenoid applications. The guide tube is available both in brass and in stainless steel. The plunger is normally equipped with NBR rubber seals. Other materials like FKM are available upon request. The armature assembly is designed for more than 10 million cycles.

**COMPLETE SOLENOID**

The coil is fastened to the plungerguide tube by means of a knurled nut for ease of change over without interrupting the pneumatic circuit. The armature assy is fixed to the valve body by means of a M20x1 thread. The suggested interface dimensions of the valve body are shown at side. Any change to the prescribed dimensions can modify the performances of the solenoid operator.

The specifications 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.
SOLENOID SYSTEMS
for 3/2 and 2/2 way normally closed and normally open valves

## Coil EVI 5M/13

### Electrical termination:
Terminals EN 175301 - 803 / DIN 43650 A
Code: 5M13D...

### Flying leads
Code: 5M13C...

### Note:
- Voltage tolerance: ± 10%
- Temperature range: –20°C ÷ +50°C
- Duty cycle: 100%

### Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>DC</th>
<th>AC (50 Hz)</th>
<th>AC (60 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated power DC W</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inrush power AC VA</td>
<td>23</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Rated power AC VA</td>
<td>13</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Coil temperature rise @ 50°C ambient T</td>
<td>50</td>
<td>50</td>
<td>45</td>
</tr>
<tr>
<td>Copper temperature rise @ 50°C ambient T</td>
<td>85</td>
<td>70</td>
<td>60</td>
</tr>
</tbody>
</table>

For different orifice sizes and pressures contact AMISCO.

## S13 Solenoid Operator

### 3/2 way NC Thread
Code: 13F...

### 2/2 way NC Thread
Code: 13F...

### 3/2 way NO Thread
Code: 13F...

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>DC</th>
<th>AC (50 Hz)</th>
<th>AC (60 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet orifice Ø mm</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Exhaust orifice Ø mm</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Working pressure bar</td>
<td>0-10</td>
<td>0-10</td>
<td>0-10</td>
</tr>
<tr>
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</tr>
</tbody>
</table>
EVI 5M EN 175301 - 803 / DIN 43650 A

Tightening Torque 0.4 ÷ 0.6 Nm

PART NUMBER 5M13D...

PART NUMBER 5M13C...

EVI 5M Flying Leads

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

PART NUMBER: XX13YK55544**

TYPE
5E = EVI 5E
5M = EVI 5M

ELECTRICAL CONNECTION
D = DIN 43650 A
C = Flying leads

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 5M 13 WINDING CODES
Nominal Voltage  Power  Winding Code
12VDC   10W   02
24VDC   10W   02
24VAC   13VA  01
110VAC  13VA  01
230VAC  13VA  01

MARKING
ZN = Standard - no logo
AM = Standard + Amisco logo
... = Customized marking

Alternative possibilities for CUSTOMER LOGO
Note: the plunger sliding-tube is available both in brass and in stainless steel.
P/N 540224 Aluminium knurled nut

ARMATURE CODING SPECIFICATIONS

PART NUMBER: 13FAAAAR9CZK

DRAWING NUMBER
Please contact Amisco for more info

SUPPLY CURRENT
A = Alternating current (AC)
D = Direct current (DC)

FUNCTION
2 = 2/2 way
3 = 3/2 way

FUNCTION
C = Normally closed
O = Normally open

SEALS
N = NBR
V = FKM

FASTENING SYSTEM
N = Without fastening system.
Fastening nuts to be ordered separately as below reported.

FASTENING NUTS - to be ordered separately (Note: tightening torque 0.4÷0.6 Nm)

Aluminium knurled nut P/N 540224