**COIL INFORMATION**

**C13 and C16 Series**

**WATTAGE**

<table>
<thead>
<tr>
<th></th>
<th>C13 (for 13 mm tubes)</th>
<th>C16 (for 16 mm tubes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14, 22 &amp; 27 Watts</td>
<td>19 &amp; 29 Watts</td>
</tr>
</tbody>
</table>

**VOLTAGES**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 VDC</td>
<td>110 VRAC</td>
</tr>
<tr>
<td>24 VDC</td>
<td>220 VRAC</td>
</tr>
</tbody>
</table>

**Special/Optional**

Other Voltages are available on request.

**DUTY RATING**

The coil is rated for continuous operation at nominal voltage +/- 10% and a ambient range of -20 to +40.

**Note.** Coil performance, force produced and power consumed, is effected by the heat of the coil, performance figures given in this catalogue are measured under simulated continuous duty conditions at the coil stabilised temperature. It is important to verify the actual conditions the valve will experience for any given application it should be tested in situ to confirm valve selection.

**WIRE INSULATION**

The coil winding is copper magnet wire insulation equivalent to class N (200°C).

**ENCAPSULATION MATERIAL**

C13, 14 Watt coils and C16, 19 Watt coils are black in colour and made from PBT (Black Polybutylene Reinforced) equivalent to Class F (155°C)

C13, 22 & 27 Watt coils and C16, 29 Watt coils are black in colour and made from IXEF (Black Polyarylamide Reinforced) equivalent to Class H (180°C)

**INGRESS PROTECTION (IP) BS EN 60529**

The coil/tube joint is sealed by “O” rings preventing fluid ingress and the possibility of tube corrosion.

Different electrical connectors offer different levels of protection the minimum being the DIN 43650 connector with a gasket at IP65. Integrated Hydraulics offer a wide range of connector types - details of which are available on request.

**CONNECTORS**

<table>
<thead>
<tr>
<th>Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>ISO4400 Standard DIN43650 2 pin and earth</td>
</tr>
<tr>
<td>F</td>
<td>Black Flying Leads 1.5mm² wire 600 mm long, 15 AWG, 2.2 mm diameter, Teflon FEP covered (DC voltage only)</td>
</tr>
<tr>
<td>DM</td>
<td>Deutsch Moulded 2 way DT04-2P series (DC voltage only)</td>
</tr>
</tbody>
</table>

**Caution** – When handling coils after or during use they maybe hot which can cause burning to the skin. Handle with care and use the appropriate equipment.

---

11-1021.B

**We reserve the right to change specifications without notice.**
ORDERING CODE EXAMPLE

Coil Series
- C13 = 13 mm tube
- C16 = 16 mm tube

Connection
- H = DIN43650 ISO Standard
- F = Flying Leads (12 and 24 VDC only)
- DM = Deutsch Moulded (12 and 24 VDC only)
  (Consult factory for other options)

Wattage
- C13
  - 14 = 14 Watt
  - 19 = 19 Watt
  - 22 = 22 Watt
  - 27 = 27 Watt
- C16
  - 19 = 19 Watt
  - 29 = 29 Watt

Voltage
- 12 = 12 VDC
- 24 = 24 VDC
- 110 = 110 VRAC
- 220 = 220 VRAC*
*
220 to 240 VAC

All AC coils must be used with a rectifying connector: (AXP9997-115 or AXP9997-230)
(Other voltages available on request)

We reserve the right to change specifications without notice

11-1022.C