**Installation guide**

**Solenoid valve**

**Types EVR 2 - EVR 22 (NC/NO)**

**Refrigerants:**

For other refrigerants, contact Danfoss.

**Note:** Only EVR 2 - EVR 20 with solder connections and without manual stem are suitable for R32, R290, R600 and R600a. For refrigerants type R32, R290, R600, R600a always use coils with protection degree IP65 or IP67.

An external current fuse (rated current of fuse should be around two times of coil rated current, fuse type: medium time lag) shall always be installed ahead of coils to prevent sparks, arcs, over heat, or short circuit (except ATEX coils).

**Mounting directions**

**Soldering**

**Coil and O-ring**

**Electrical connections**

**Flare mounting**

**Warning**

Never switch on power to the coil when the coil is dismounted from the valve. Otherwise the coil may be damaged and there is risk of injuries and burns.

**Max. coil temperature**

<table>
<thead>
<tr>
<th>Coils</th>
<th>Max. coil temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 W AC (EVR 2)</td>
<td>$t_{\text{max}} = 40^\circ \text{C}$</td>
</tr>
<tr>
<td>10/12 W AC</td>
<td>$t_{\text{max}} = 80^\circ \text{C}$</td>
</tr>
<tr>
<td>20 W DC</td>
<td>$t_{\text{max}} = 50^\circ \text{C}$</td>
</tr>
<tr>
<td>10 W AC</td>
<td>$t_{\text{max}} = 55^\circ \text{C}$</td>
</tr>
</tbody>
</table>

**Media temperature**

| Min. medium temperature | $t_{\text{min}} = -40^\circ \text{C}$ |
| Max. medium temperature | $t_{\text{max}} = 105^\circ \text{C}$ |

**Max. working pressure F5/MWP**

<table>
<thead>
<tr>
<th>Models</th>
<th>Max. working pressure F5/MWP</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 2 – EVR 8</td>
<td>45.2</td>
</tr>
<tr>
<td>EVR 10 – EVR 22</td>
<td>35</td>
</tr>
<tr>
<td>EVR 15 – EVR 22</td>
<td>32</td>
</tr>
</tbody>
</table>

**Max. operating diff. pressure (MOPD)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Max. operating diff. pressure (MOPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 2 – EVR 8</td>
<td>Coil dependent</td>
</tr>
</tbody>
</table>
**Mounting / dismounting of top part**

- **Note:** Always use cross-tightening

<table>
<thead>
<tr>
<th>Type</th>
<th>[Nm]</th>
<th>[kpm]</th>
<th>[ft-lbs]</th>
<th>Torx size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 2, EVR 3</td>
<td>1.4</td>
<td>0.15</td>
<td>1</td>
<td>T15</td>
</tr>
<tr>
<td>EVR 4, EVR 6, EVR 8</td>
<td>2.0</td>
<td>0.2</td>
<td>1.44</td>
<td>T15/T20</td>
</tr>
</tbody>
</table>

**Placement of valve seat**

- **Note:** Always use cross-tightening

<table>
<thead>
<tr>
<th>Type</th>
<th>[Nm]</th>
<th>[kpm]</th>
<th>[ft-lbs]</th>
<th>Torx size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 10, EVR 15, EVR 18</td>
<td>2.8</td>
<td>0.3</td>
<td>2</td>
<td>T25</td>
</tr>
<tr>
<td>EVR 20, EVR 22</td>
<td>12</td>
<td>1.2</td>
<td>9</td>
<td>T40</td>
</tr>
</tbody>
</table>

**EVR 4 – EVR 8 dismounting gasket and supporting ring:** Press and twist

**Note:**
Always use cross-tightening

**EVR 10 – EVR 22 (NC)**

**EVR 2 – EVR 8 (NC)**

**EVR 10 – EVR 20 (NO)**

**EVR 2 – EVR 3 (NC)**

**EVR 4 – EVR 8 (NC)**

**EVR 10 – EVR 22 (NC)**

**EVR 4 – EVR 8 (NO)**

**EVR 10 – EVR 20 (NO)**

Sticker applies only to UL products