Solenoid Valve

FDF2AK series solenoid valves are direct operated, normally open solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps.

**FEATURES**

- COMPACT DESIGN
- LOW ENERGY CONSUMPTION
- EXCELLENT OPERATION PERFORMANCE

**GENERAL SPECIFICATIONS**

- Applicable for all common HCFC, HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507, R407A/F, R448A/R449A, R452A, R450A/R513A
- Medium temperature T5 min./max.: -30°C / 120°C
- Ambient temperature: -30°C / +50°C
- Relative humidity: 0 to 95% RH

**Note:** 1) Flammable refrigerants like R32, R290 on request

- Installation position:
  - Liquid, suction and discharge line
  - Coil upwards, coil axis ±15° tolerance versus vertical axis
  - Flow direction corresponds to the arrow
- Declaration according to LVD or PED

**TECHNICAL PARAMETERS OF VALVE BODY**

<table>
<thead>
<tr>
<th>Valve Body Model</th>
<th>Part Number*</th>
<th>Normal Position</th>
<th>Actuation</th>
<th>Ø Seat [mm]</th>
<th>Kv [m³/h]</th>
<th>MOP [MPa]</th>
<th>Max. OPD [MPa]</th>
<th>Min. OPD [MPa]</th>
<th>Connection OD Ød [mm] [inch]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDF 2AK 01</td>
<td>10120006702</td>
<td>NO</td>
<td>Direct</td>
<td>1,8</td>
<td>0,05</td>
<td>4,5</td>
<td>1,5</td>
<td>0</td>
<td>6,35 ±0,1 1/4</td>
</tr>
<tr>
<td>FDF 2AK 08</td>
<td>10120009702</td>
<td>NO</td>
<td>Direct</td>
<td>1,9</td>
<td>0,08</td>
<td>4,5</td>
<td>1,5</td>
<td>0</td>
<td>6,35 ±0,1 1/4</td>
</tr>
</tbody>
</table>

* Available also as industrial package. Contact Sanhua for more details.
## TECHNICAL PARAMETERS OF COIL

<table>
<thead>
<tr>
<th>Coil Model</th>
<th>Part Number*</th>
<th>Rated Voltage [V]</th>
<th>Supply</th>
<th>Power* [W]</th>
<th>Used for</th>
<th>Freq. [Hz]</th>
<th>Voltage Tolerance</th>
<th>Insulation Class</th>
<th>Wiring type</th>
</tr>
</thead>
<tbody>
<tr>
<td>FQ-A05024-000709</td>
<td>10800072302</td>
<td>24</td>
<td></td>
<td>5</td>
<td>(50Hz) (60Hz)</td>
<td></td>
<td>-15% +10%</td>
<td>B</td>
<td>flying leads</td>
</tr>
<tr>
<td>FQ-A05120-001098</td>
<td>10800062002</td>
<td>110 to 120</td>
<td></td>
<td>5</td>
<td>(50Hz) (60Hz)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FQ-A0522G-001022</td>
<td>10800057302</td>
<td>220 to 240</td>
<td></td>
<td>4,5</td>
<td>(50Hz) (60Hz)</td>
<td>FDF 2AK 01³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FQ-A0522G-001066</td>
<td>10800060102</td>
<td>220 to 240</td>
<td></td>
<td>5,5</td>
<td>(50Hz) (60Hz)</td>
<td>FDF 2AK 08³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Note:
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- 1) Dimensions: drawing 1
- 2) Dimensions: drawing 2
- 3) Power consumption based on 220V
FDFZAK (N0) SERIES
Solenoid Valve

DIMENSIONS - COIL

Drawing 1: FQ-A05024-000709, FQ-A05120-001098, FQ-A05222-001022

Drawing 2: FQA-55007

Every 2nd home refrigerator in Europe is equipped with a SANHUA solenoid valve

YEARLY SANHUA SUPPLIES OVER 20 MILLION SOLENOID VALVES TO THE REFRIGERATION, HVAC AND HOME APPLIANCES INDUSTRIES WORLDWIDE