



浙江三花制冷集团有限公司

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## The UK Declaration of Conformity

Issued in accordance with

Pressure Equipment (Safety) Regulation 2016(2016/1105)

Electrical Equipment (Safety) Regulation 2016(2016/1101)

**The manufacturer's name and address:**

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### Section 1 - Pressure Equipment (Safety) Regulation 2016(2016/1105)

**Declaration:**

Solenoid valves series shown in the tables below, are classified “Pressure accessories” in the sense of the Pressure Equipment (Safety) Regulation 2016(2016/1105), Article 2 point (5).

The Refrigerant proper to the Fluid Group I and II as defined in the article 3 (1) and 3 (2) of the Regulation 2016(2016/1105).

**Description of Products:**

TS (°C)	-30 to +120			Fluid Group I		Fluid Group II		
	Models	DN	Connection	PS	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
	FDF xxA yy	from 4,95 to 13,9	from 1/4" to 5/8"	45bar	Art. 4.3	-	Art. 4.3	-
	FDF 2AKyy	from 4,35 to 4,95	1/4"	45bar	Art. 4.3	-	Art. 4.3	-
	LDF xxAyy	from 4,95 to 8,12	from 1/4" to 3/8"	45bar	Art. 4.3	-	Art. 4.3	-

Table 1

x position: identifies the valve size  
y position: identifies an internal code

**Note:**

All the models listed in the table above classified as “Art. 4.3” aren’t subjected to the Essential Safety Requirements set out in the Pressure Equipment (Safety) Regulation 2016(2016/1105), Article 2 because their characteristics are below or equal to the limits fixed in Article 6 (c) (i) of the same Regulation. As mentioned in the Directive all these products have a nominal size “DN” below or equal to :

- a) 25mm for refrigerants belonging to Fluid Group I
- b) 32mm for refrigerants belonging to Fluid Group II

Therefore, according to requirements of Article 4 (1) (c) (i) them:

- Are designed and manufactured in accordance with a sound engineering practice in order to ensure safe use.
- Are accompanied by adequate instructions for use
- Bear markings to permit identification of the manufacturer
- Don’t bear CE or UKCA marking referred to in Article 8
- Are not accompanied by a “Declaration of Conformity” to Pressure Equipment (Safety) Regulation 2016(2016/1105)

Covered by this declaration is in conformity with the following directives, standards or other normative documents, provided that the product is used in accordance with our instructions:

- BS EN 12284:2003 - Refrigerating systems and heat pumps. Valves. Requirements, testing and marking
- BS EN 378-2:2016 - Refrigerating systems and heat pumps. Safety and environmental requirements. Basic requirements, definitions, classification and selection criteria

## Section 2 - Electrical Equipment (Safety) Regulation 2016(2016/1101)

### **Declaration:**

Solenoid valves series, shown in the table 1, and all the electrical coils shown in the table 2 are in conformity to the following standards as required by the Electrical Equipment (Safety) Regulation 2016(2016/1101).

Covered by this declaration is in conformity with the following directives, standards or other normative documents, provided that the product is used in accordance with our instructions:

Automatic electrical controls for household and similar use – Part 1 : General requirements  
**(BS) EN 60730-1:2017-05 ; (BS) EN 60730-1:2016; (BS) EN 60730-1:2016/A1:2019;**

- **With sub-clauses 7/8/9/10/11/12/13/18/19/20/21/27**

For valves shown in Table 1 , with coil FQ-A0522G-xxxxxx shown in Table 2, additional test has been performed in order to allow the usage of the present electrical device with Flammable refrigerants as described in the BS EN-378-1/2012-08 Annex F section F.2.3

Household and similar electrical appliances – Safety

**(BS)EN 60335-2-24 :2019-11; (BS)EN 60335-2-24 :2010/A1:2019**

- **With sub-clauses 22.110**

Household and similar electrical appliances – Safety

**(BS)EN 60335-2-89:2018-10; (BS)EN 60335-2-89:2010/A2:2017**

- **With sub-clauses 22.109**

Household and similar electrical appliance – Safety

(Particular requirements for electrical heat pumps, air conditioner, dehumidifiers)

**(BS)EN 60335-2-40/2014-01**

**(BS)EN 60335-2-40/2003 + A11/2004 + A12/2005 + A1/2006 + A2/2009 + A13/2012**

- **With sub-clauses 22.116(no electrical component, which could be a source of ignition in case of normal operation or in the event of a leak)**
- **With sub-clauses 22.117 and Annex BB**

#### Electrical Coils:

COIL NAME	SUITABLE FOR	Power Supply	Rated Voltage (V)	Applicability of Electrical Equipment (Safety) Regulation 2016(2016/1101)
FQ-A05024-xxxxxx	FDF/FDF2AK/LDF	AC	24	NO
FQ-A05120-xxxxxx	FDF/FDF2AK/LDF	AC	120	YES
FQ-A0522G-xxxxxx	FDF/FDF2AK/LDF	AC	220 to 240	YES

Table 2

#### Note:

The applicability of the Equipment (Safety) Regulation 2016(2016/1101) is limited to the coil models with voltage rating of between 50 and 1000 V for alternating current and between 75 and 1500 V for direct current.

All the products excluded by the Equipment (Safety) Regulation 2016(2016/1101) respects the following requirements:

- Are designed and manufactured in accordance with a sound engineering practice in order to ensure safe use.
- Are accompanied by adequate instructions for use
- Bear markings to permit identification of the manufacturer
- Don't bear CE or UKCA marking referred to in Article 39
- Are not accompanied by a "Declaration of Conformity" to Equipment (Safety) Regulation 2016(2016/1101) - SCHEDULE8(Regulation 8)

Responsible Person to issue the declaration of Conformity:	Date	Signature
Mr. Zhouyang Li	2021. 5.27	