



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:

Company: Zhejiang Sanhua Climate and Appliance Controls Group Co., Ltd

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

Declaration:

Electrical expansion 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:

1. UNI-POLAR EEV

			Fluid Group I		Fluid Group II	
Models	PS(bar)	TS (°C)	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
DPF (S03) XXX-XX	49	-40°C / +85°C	Art. 4.3	-	Art. 4.3	-
LPF XX-XXX	42	-40°C / +70°C	Art. 4.3	-	Art. 4.3	-
LPF XXD-XXX	60	-40°C / +70°C	NA	-	Art. 4.3	-

Table 1

2. BI-POLAR EEV

TS (°C)	-40 to +120		Fluid Group I		Fluid Group II	
Models	DN	PS(bar)	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
VPF12.5Hxx	15.5	50.0	Art. 4.3	-	Art. 4.3	-
VPF25Hxx	15.5	50.0	Art. 4.3	-	Art. 4.3	-
VPF50Hxx	19.0	50.0	Art. 4.3	-	Art. 4.3	-
VPF100Hxx	28.0	50.0	Cat.II	D	Art. 4.3	-
VPF150Hxx	28.0	50.0	NOT CERTIFIED	-	Art. 4.3	-
VPF250Hxx	28.0	45.0	NOT CERTIFIED	-	Art. 4.3	-
VPF400Hxx	32.0	45.0	NOT CERTIFIED	-	Cat.I	A (point 1)

Table 2

x positions are variable

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

Notified Body:

For products are defined as Category II in tables above, are surveillance of the QS-System: examination / inspection / test during manufacturing:

Name:	TUV Rheinland Industrie Service GmbH
Address:	Am Grauen Stein, D-51105 Koln - Germany
Identification Number:	0035
EC-Certificate of conformity No:	01 202 CHN/Q-19 0641

Section 2 - Electrical Equipment (Safety) Regulation 2016(2016/1101)**Declaration:**

Electrical expansion valves, shown in the table 1, and all the electrical coils shown in the table 3 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**

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**

For LPF series valves shown in Table 1 , with coil PQ-M24xxxx shown in Table 3, and all valves shown in Table 2, additional test has been performed according to

Explosive atmospheres

IEC 60079-0 : 2011 Clause 26.5.1.3

IEC60079-15 : 2010 Clause 6.3.1 & 6.4.1 & 6.5.1

Electrical Coils:

COIL NAME	SUITABLE FOR	Power Supply	Rated Voltage (V)	Applicability of Electrical Equipment (Safety) Regulation 2016(2016/1101)
PQ-M10012-xxxxxx	DPF	DC	12	NO
PQ-M24xxxx	LPF	DC	12	NO

Table 3

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	

