



浙江三花制冷集团有限公司
Zhejiang Sanhua Climate and Appliance Controls Group CO., LTD
Add: Xialiquan Qixing District, Xinchang, Zhejiang, China 312500
Tel: +86-575-86551978
Fax: +86-575-86221855

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MDF_New-DoC_UKCA-R2203



UK Declaration of Conformity

Issued in accordance with:

Pressure Equipment (Safety) Regulations 2016 (2016/1105)
Electrical Equipment (Safety) Regulations 2016 (2016/1101)

The manufacturer's name and address:

Company: Zhejiang Sanhua Climate and Appliance Controls Group Co., Ltd
Address: 358 West Xinchang Avenue, Xinchang, Zhejiang, P.R. China

Authorized Representative: Mr. Ilan Peleg

Authorized Company: Sanhua International Europe S.L.

Tel: +34 91 654 30 00 ; E-Mail: info@sanhuaeurope.com

Address: C/ José Celestino Mutis, 4, 21 28703 San Sebastian de los Reyes - Spain

Section 1 - Pressure Equipment (Safety) Regulations 2016

Declaration:

Solenoid valves

shown in the following tables, are classified "Pressure accessories" in the sense of the Pressure Equipment (Safety) Regulations 2016, Article 2 – [PART 1 - Interpretation].

The Refrigerant proper to the Group I and II as defined in the Article 3(1) and Article 3(2) – [SCHEDULE 3 - Classification of pressure equipment] of the Pressure Equipment (Safety) Regulations 2016.

a) Refrigerant of Group I: Refrigerant is classified as hazardous substance or mixture as defined in points (7) and (8) of Article 2 of Regulation (EC) No. 1272/2008.

b) Refrigerant of Group II: Refrigerant cannot be classified as hazardous substance or mixture as defined in points (7) and (8) of Article 2 of Regulation (EC) No. 1272/2008.

Summary:

Product Series	Design Pressure PS (bar)	Table
MDFxyHzm [ODF solder connections]	45	See Table 1

Description of Products:

Design Pressure (PS):	45 bar					
Temperature Range (TS):	MDF10/15/16/20/22: -30°C / +105°C MDF2/3/6: -40°C / +140°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL	DN (mm)	Connection ØD ODS (inch (mm))	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
MDFxyHzm [from size 2 to size 22]	from 5 to 19,82	from 1/4" (6 mm) to 7/8" (22 mm); (28 mm)	Art. 4.3	-	Art. 4.3	-
MDF20Hzm, MDF22Hzm [from size 20 to size 22]	25,58 to 26,15	from 1 1/8" to 1 3/8" (35 mm)	Cat.II	NOT CERTIFIED	Art. 4.3	-

Table 1

Note:

xy position: identifies the valve size
zm position: identifies an internal code

All the models listed in the table above classified as "Art. 4.1" aren't subjected to the Essential Safety Requirements set out in Pressure Equipment (Safety) Regulations 2016, Article 2 – [SCHEDULE 1 - Excluded Pressure Equipment and Assemblies (Regulation 4)] because their characteristics are below or equal to the limits fixed in Article 6 (c) (i) of the same Regulation. As mentioned in the Regulation all these products have a nominal size "DN" below or equal to:

- 25mm for refrigerants belonging to Group I
- 32mm for refrigerants belonging to Group II

Therefore, according to requirements of Article 6 (c) (i) items:

- 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) Regulations 2016

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) Regulations 2016

Declaration:

Solenoid valves

shown in the tables above, and all the electrical coils shown in the table below are in conformity to the following standards as required by the Electrical Equipment (Safety) Regulations 2016.

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

* Note: the additional test are valid only for the coil models certified for usage with Fluid Group I (reference on table 2)

Automatic electrical controls for household and similar use – Part 1 : General requirements

(BS) EN 60730-1:2016

Household and similar electrical appliances – Safety

(BS) EN 60335-2-24:2010 + A1:2012 + A2:2019

- With sub-clauses 22.110

(BS) EN 60335-2-40:2003 + A11:2004 + A12:2005 + A1:2006 + A2:2009 + A13:2012/AC:2013

- 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

(BS) EN 60335-2-89:2010 + A1:2016 + A2:2017

- With sub-clauses 22.109

Explosive atmospheres

IEC 60079-0:2011 clause 26.5.1.3

IEC 60079-15:2010 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) Regulations 2016	CERTIFIED FOR FLUID GROUP I
HQ*G**	MDFxyHzm	AC	220 to 240	YES	YES
HQ*D**	MDFxyHzm	AC	120	YES	YES
HQ*K**	MDFxyHzm	AC	24	NO	YES

Table 2

Note:

* position: identifies coil type

** position: identifies internal coil modification

The applicability of the Electrical Equipment (Safety) Regulations 2016 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 Electrical Equipment (Safety) Regulations 2016 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 Electrical Equipment (Safety) Regulations 2016 - SCHEDULE 8 (Regulation 38)

王周祥
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