



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

Rev: 2022.03

MDF\_New-  
DoC\_EU-R2203

## The EU Declaration of Conformity

Issued in accordance with:

The Pressure Equipment Directive 2014/68/EU

The Low Voltage Directive 2014/35/EU

### 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, 2I 28703 San Sebastian de los Reyes - Spain

## Section 1 - The Pressure Equipment Directive 2014/68/EU

### Declaration:

Solenoid valves

shown in the following tables, are classified "Pressure accessories" in the sense of the Pressure Equipment Directive 2014/68/EU, Article 2 point (5).

The Refrigerant proper to the Group I and II as defined in the articles 13 (1) (a) and 13 (1) (b) of Directive 2014/68/EU.

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					
Temperaure Range (TS):	MDF10/15/16/20/22: -30°C / +105°C		FLUID GROUP I		FLUID GROUP II	
				Module annex III – PED Directive 2014/68/EU	PED category	Module annex III – PED Directive 2014/68/EU
SANHUA MODEL	DN (mm)	Connection ØD ODS (inch (mm))	PED category			
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. 4.3" aren't subjected to the Essential Safety Requirements set out in Annex I of Directive 2014/68/EU because their characteristics are below or equal to the limits fixed in Article 4 (1) (c) (i) & (ii) of the same Directive. As mentioned in the Directive all these products have a nominal size "DN" below or equal to:

a) 25mm for refrigerants belonging to Group I

b) 32mm for refrigerants belonging to Group II

Therefore, according to requirements of Article 4 (1) (c) 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 marking referred to in Article 18 and Article 19

- Are not accompanied by a "Declaration of Conformity" to Directive 2014/68/EU referred to in Annex IV

the product is used in accordance with our instructions:

- EN 12284:2003 - Refrigerating systems and heat pumps. Valves. Requirements, testing and marking classification and selection criteria

## Section 2 - The Low Voltage Directive 2014/35/EU

### **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 Low Voltage Directive 2014/35/EU.

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

**EN 60730-1:2016**

Additional test has been performed in order to allow the usage of the present electrical device with

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

Household and similar electrical appliances – Safety

**EN 60335-2-24:2010 + A1:2012 + A2:2019**

• With sub-clauses 22.110

**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

**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 2014-35-EU	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 Directive 2014/35/EU as mentioned in the Article 1 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

All the products excluded by the Directive 2014/35/EU 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 marking referred to in Article 16 and Article 17

- Are not accompanied by a "Declaration of Conformity" to Directive 2014/35/EU referred to in Annex IV

姜潤洋  
2022.3.14