



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).

#### Summary:

Product Series	PS (bar)	Table
MDF-A03/D03	45	See Table 2
MDF-A03 RH	49	See Table 3
MDF-B03	45	See Table 4
MDF-A02	45	See Table 5
HDF	45	See Table 6

Table 1

### Description of Products:

TS (°C)	-30 to +105		Fluid Group I		Fluid Group II	
Models	DN	Connection	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
MDF-A03-xL yyy [from size 2 to size 15]	-	from 1/4" to 7/8"	NA	-	Art. 4.3	-
MDF-A03-xH yyy [from size 2 to size 20]	from 6,35 to 22,2mm	from 1/4" to 1" 1/8"	Art. 4.3	-	Art. 4.3	-
MDF-D03-xH yyy [from size 6 to size 15]	from 9,52 to 22,2mm	from 3/8" to 7/8"	Art. 4.3	-	Art. 4.3	-
MDF-A03-22H009	28,6mm	1" 1/8	Art. 4.3	-	Art. 4.3	-
MDF-A03-22H011	22,2mm	28mm	Art. 4.3	-	Art. 4.3	-
MDF-A03-22H xxx	from 22,2 to 22,6mm	from 7/8" to 1" 3/8	NOT CERTIFIED	-	Art. 4.3	-

Table 2

TS (°C)	-30 to +105		Fluid Group I		Fluid Group II	
Models	DN	Connection ØD ODS	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
MDF-A03-xRH yyy [from size 2 to size 20]	from 6,35 to 22,2mm	from 1/4" to 1" 1/8"	Art. 4.3	-	Art. 4.3	-
MDF-A03-22RH xx	from 22,2 to 22,6mm	from 7/8" to 1" 3/8	Cat.II	D	Art. 4.3	-

Table 3

TS (°C)	-40 to +140		Fluid Group I		Fluid Group II	
Models	DN	Connection ØD ODS	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
MDF-B03-25H003	28.6	1" 1/8	NOT CERTIFIED	-	Art. 4.3	-
MDF-B03-25H005	28.6	28mm	NOT CERTIFIED	-	Art. 4.3	-
MDF-B03-25H004	35.0	1" 3/8	NOT CERTIFIED	-	Cat.I	A (point 1)
MDF-B03-32H001	35.0	1" 3/8	Cat. II	D	Cat.I	A (point 1)
MDF-B03-32H002	41.3	1" 5/8	Cat. II	D	Cat.I	A (point 1)
MDF-B03-32H003	41.3	42mm	Cat. II	D	Cat.I	A (point 1)
MDF-B03-40H002	41.3	1" 5/8	NOT CERTIFIED	-	Cat.I	A (point 1)
MDF-B03-40H003	41.3	42mm	NOT CERTIFIED	-	Cat.I	A (point 1)
MDF-B03-40H004	52.4	54mm (2" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)

Table 4

TS (°C)	-30 to +105		Fluid Group I		Fluid Group II	
Models	DN	Connection	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
MDF-A02-xL yyy [from size 6 to size 15]	from 9,52 to 22,2	from 3/8" to 7/8"	NA	-	Art. 4.3	-
MDF-A02-xH yyy [from size 6 to size 22]	from 9,52 to 22,2	From 3/8" to 1" 3/8	Art. 4.3	-	Art. 4.3	-
MDF-A02-20H 004	22,2	1" 1/8	NOT CERTIFIED	-	Art. 4.3	-
MDF-A02-20H 008	22,2	28mm	NOT CERTIFIED	-	Art. 4.3	-
MDF-A02-22H008	28,6	1" 1/8	NOT CERTIFIED	-	Art. 4.3	-
MDF-A02-22H012	22,2	28mm	NOT CERTIFIED	-	Art. 4.3	-
MDF-A02-22H 004	28,6	35mm (1" 3/8)	NOT CERTIFIED	-	Art. 4.3	-

Table 5

TS (°C)	-30 to +105		Fluid Group I		Fluid Group II	
Models	DN	Connection ØD ODS	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
HDFxHyy [from size 3 to size 22]	from 6,35 to 28,6	from 1/4" to 1" 3/8	Art. 4.3	-	Art. 4.3	-
HDF22H02	22,2	35mm (1" 3/8)	NOT CERTIFIED	-	Art. 4.3	-

Table 6

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

**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:**

Solenoid valves series, shown in the table 2-6, and all the electrical coils shown in the table 7 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 2-3(except for MDF-D03 series) , with coil MQ-A0322G-xxxxxx shown in Table 7, 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)
MQ-A03024-xxxxxx	MDF A03/B03	AC	24	NO
MQ-A0311A-xxxxxx	MDF A03/B03	AC	110 to 120	YES
MQ-A0322G-xxxxxx	MDF A03/B03	AC	220 to 240	YES
MQ-A11024-xxxxxx	MDF A03/B03	AC	24	NO
MQ-A1111A-xxxxxx	MDF A03/B03	AC	110 to 120	YES
MQ-A1122G-xxxxxx	MDF A03/B03	AC	220 to 240	YES
MQ-D03012-xxxxxx	MDF A03 2-3H MDF D03 6-15H MDF A03 20-22H	DC	12	NO
MQ-D03024-xxxxxx	MDF A03 2-3H MDF D03 6-15H MDF A03 20-22H	DC	24	NO
MQ-A02024-xxxxxx	MDF A02	AC	24	NO
MQ-A0211A-xxxxxx	MDF A02	AC	110 to 120	YES
MQ-A0222G-xxxxxx	MDF A02	AC	220 to 240	YES
MQ-D02012-xxxxxx	MDF A02	DC	12	NO
MQ-D02024-xxxxxx	MDF A02	DC	24	NO
MQ-A03024-001xxx	HDF	AC	24	NO
MQ-A0311A-001xxx	HDF	AC	110 to 120	YES
MQ-A0322G-001xxx	HDF	AC	220 to 240	YES

Table 7

**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	21.5.27.	