



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

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

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

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

**Declaration:**

Thermostatic 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).

**Summary:**

Product Series	PS (bar)	TS (°C)	Table
RFKH	46	-40 to 70/-60 to 70	See Table 2
RFGB	35	-40 to 70/-60 to 70	See Table 3
RFGD	48	-40 to 70/-60 to 70	See Table 4
RF GK	46	-40 to 70/-60 to 70	See Table 5
RFGL	46	-40 to 70/-60 to 70	See Table 6

Table 1

### Description of Products:

			Fluid Group I		Fluid Group II	
Models	Inlet	Outlet	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
RFKHxxE-yyy-zzz	5/8-18UNF-2 A	1/2" ,3/8" ,12mm	NA	-	Art. 4.3	-
RFKHxx-yyy-zzz	5/8-18UNF-2 A	1/2" ,3/8" ,12mm	NA	-	Art. 4.3	-
RFKHxxE-yyy-zzz	5/8-18UNF-2 A	3/4-16UNF-2A	NA	-	Art. 4.3	-
RFKHxx-yyy-zzz	5/8-18UNF-2 A	3/4-16UNF-2A	NA	-	Art. 4.3	-

Table 2

			Fluid Group I		Fluid Group II	
Models	Inlet	Outlet	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
RFGBxx-yyy-zzz	6mm , 10mm, 1/4" , 3/8"	10mm , 12mm, 3/8" , 1/2"	NA	-	Art. 4.3	-
RFGBxxE-yyy-zzz	6mm , 10mm, 1/4" , 3/8"	10mm , 12mm, 3/8" , 1/2"	NA	-	Art. 4.3	-

Table3

			Fluid Group I		Fluid Group II	
Models	Inlet	Outlet	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
RFGDxxE-yyy-zzz	10mm, 12mm, 16mm, 22mm, 3/8", 1/2", 5/8", 7/8"	12mm, 16mm, 22mm, 28mm; 35mm, 1/2", 1/2", 5/8", 7/8", 1" 1/8", 1" 3/8"	NA	-	Art. 4.3	-
RFGDxxE-yyy-zzz	5/8-18UNF-2A, 3/4-16UNF-2A, 11/16-16UN-2A, 7/8-14UNF-2A, 1-14UNS-2A (ORFS), 7/8-14UNF-2A(F), 7/8-14UNF-2A(MIO)	3/4-16UNF-2A, 7/8-14UNF-2A, 13/16-16UN-2A, 17/16-14UNS-2A, 1-13/16-12UN-2A (ORFS), 1-1/16-14UNS-2A(F), 1-1/16-14UNS-2A(MIO)	NA	-	Art. 4.3	

Table4

			Fluid Group I		Fluid Group II	
Models	Inlet	Outlet	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
RFGKxxE-yyy-zzz	6mm, 10mm, 12mm, 16mm, 1/4", 3/8", 1/2", 5/8"	10mm, 12mm, 16mm, 22mm, 3/8", 1/2", 5/8", 7/8"	NA	-	Art. 4.3	
RFGKxxE-yyy-zzz	7/16-20UN-2A, 5/8-18UNF-2A,	3/4-16UNF-2A	NA	-	Art. 4.3	
RFGKxxE-yyy-zzz	6mm, 10mm, 12mm, 16mm, 1/4", 3/8", 1/2", 5/8"	10mm, 12mm, 16mm, 22mm, 3/8", 1/2", 5/8", 7/8"	NA	-	Art. 4.3	

Table5

			Fluid Group I		Fluid Group II	
Models	Inlet	Outlet	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
RFGlxx-yyy-zzz	6mm , 10mm, 1/4" , 3/8"	10mm , 12mm, 3/8" , 1/2"	NA	-	Art. 4.3	-
RFGlxxE-yyy-zzz	6mm , 10mm, 1/4" , 3/8"	10mm , 12mm, 3/8" , 1/2"	NA	-	Art. 4.3	-

Table6

"E" letter means "External Equalization type, no "E" means "Internal Equalization type.

"xx" is the type of refrigerant.

"yyy" letters are referred to a decimal number which represents the valve capacity expressed in Tons of refrigerant

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 :

- 25mm for refrigerants belonging to Fluid Group I
- 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

Responsible Person to issue the declaration of Conformity:	Date	Signature
Mr. Zhouyang Li	2021.5.27	