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UK Declaration of Conformity

Issued in accordance with:
Pressure Equipment (Safety) Regulations 2016 (2016/1105)

The manufacturer's name and address:

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Declaration:

Check valves

shown in the following tables, are classified "Vessels" 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	PS * V	Design Pressure PS (bar)	Table
DTG-B	≤25 bar*L	48,3	See Table 2
DTG-F	≤25 bar*L	48,3	See Table 2
STG-B	≤25 bar*L	48,3	See Table 2
STG-F	≤25 bar*L	48,3	See Table 2
DTG-A	≤25 bar*L	48,3	See Table 3
DTG-E	≤25 bar*L	48,3	See Table 3
DTG-B-932	≤25 bar*L	49	See Table 4
STG-B-932	≤25 bar*L	49	See Table 4
HTG	>25 bar*L	45	See Table 5
DSG-B	≤25 bar*L	46	See Table 6

Table 1

Description of Products:

Design Pressure (PS):	48,3 bar					
Temperaure Range (TS):	-30°C / +120°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL*	Net Volume V (L)	PS * V (bar*L)	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
DTG-z03xxy-901	0,038	1,8	Art. 4.3	-	Art. 4.3	-
DTG-z05xxy-901	0,099	4,7	Art. 4.3	-	Art. 4.3	-
DTG-z08xxy-901	0,109	5,2	Art. 4.3	-	Art. 4.3	-
DTG-z16xxy-901	0,120	5,7	Art. 4.3	-	Art. 4.3	-
DTG-z30xxy-901	0,223	10,7	Art. 4.3	-	Art. 4.3	-
DTG-z41xxy-901	0,313	15,1	Art. 4.3	-	Art. 4.3	-
DTG-z75xxy-901	0,422	20,4	Art. 4.3	-	Art. 4.3	-
-	-	-	-	-	-	-
STG-z05xxy-901	0,140	5,7	Art. 4.3	-	Art. 4.3	-
STG-z08xxy-901	0,163	7,8	Art. 4.3	-	Art. 4.3	-
STG-z16xxy-901	0,261	12,6	Art. 4.3	-	Art. 4.3	-
STG-z30xxy-901	0,348	16,8	Art. 4.3	-	Art. 4.3	-

Table 2

Design Pressure (PS):	48,3 bar					
Temperaure Range (TS):	-30°C / +120°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL*	Net Volume V (L)	PS * V (bar*L)	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
DTG-w03xxy-901	0,044	2,1	Art. 4.3	-	Art. 4.3	-
DTG-w05xxy-901	0,138	6,7	Art. 4.3	-	Art. 4.3	-
DTG-w08xxy-901	0,145	7,0	Art. 4.3	-	Art. 4.3	-
DTG-w16xxy-901	0,170	8,2	Art. 4.3	-	Art. 4.3	-
DTG-w30xxy-901	0,327	15,8	Art. 4.3	-	Art. 4.3	-

Table 3

Design Pressure (PS):	49 bar					
Temperaure Range (TS):	-30°C / +120°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL*	Net Volume V (L)	PS * V (bar*L)	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016
DTG-B03xxy-932	0,038	1,9	Art. 4.3	-	Art. 4.3	-
DTG-B05xxy-932	0,099	4,9	Art. 4.3	-	Art. 4.3	-
DTG-B08xxy-932	0,109	5,3	Art. 4.3	-	Art. 4.3	-
DTG-B16xxy-932	0,120	5,9	Art. 4.3	-	Art. 4.3	-
DTG-B30xxy-932	0,223	10,9	Art. 4.3	-	Art. 4.3	-
DTG-B41xxy-932	0,313	15,3	Art. 4.3	-	Art. 4.3	-
DTG-B75xxy-932	0,422	20,7	Art. 4.3	-	Art. 4.3	-
-	-	-	-	-	-	-
STG-B05xxy-932	0,140	6,9	Art. 4.3	-	Art. 4.3	-

STG-B08xxy-932	0,163	8,0	Art. 4.3	-	Art. 4.3	-
STG-B16xxy-932	0,261	12,8	Art. 4.3	-	Art. 4.3	-
STG-B30xxy-932	0,348	17,1	Art. 4.3	-	Art. 4.3	-

Table 4

Design Pressure (PS):		45 bar					
Temperaure Range (TS):		-40°C / +70°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL*	Net Volume V (L)	PS * V (bar*L)	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	
HTG-A48xxy-901	1,520	68,4	NOT CERTIFIED	-	Cat.I	A (point 1)	
HTG-A96xxy-901	2,290	103,5	NOT CERTIFIED	-	Cat.I	A (point 1)	
HTG-B44xxy-901	3,080	138,6	NOT CERTIFIED	-	Cat.I	A (point 1)	
HTG-B92xxy-901	3,920	176,4	NOT CERTIFIED	-	Cat.I	A (point 1)	

Table 5

Design Pressure (PS):		46 bar					
Temperaure Range (TS):		-30°C / +80°C		FLUID GROUP I		FLUID GROUP II	
SANHUA SERIES	Net Volume V (L)	PS * V (bar*L)	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	Safety category	Part 3 – Pressure Equipment (Safety) Regulations 2016	
DSGB-052	0,099	4,6	Art. 4.3	-	Art. 4.3	-	
DSGB-082	0,109	5,0	Art. 4.3	-	Art. 4.3	-	
DSGB-083	0,109	5,0	Art. 4.3	-	Art. 4.3	-	
DSGB-163	0,120	5,5	Art. 4.3	-	Art. 4.3	-	
DSGB-164	0,120	5,5	Art. 4.3	-	Art. 4.3	-	

Table 6

Note:

*: Z position: "B" filters with solid core and 100% dessicant; "F" filters with solid core and 80% dessicant + 20% alumina
W position: "A" filters with loose beans and 100% dessicant; "E" filters with loose beans and 80% dessicant + 20% alumina
XX position: identifies the size of the solder connection pipe
YY position: identifies the connection type (inch or mm)

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 (a) (i) of the same Regulation. As mentioned in the Regulation all these products have a nominal "PS*V" below or equal to:

- a) 25 bar*L or volume (V) < 1 L and PS < 200 bar for refrigerants belonging to Group I
- b) 50 bar*L or volume (V) < 1 L and PS < 1000 bar for refrigerants belonging to Group II

Therefore, according to requirements of Article 6 (a) (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) 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

Responsible

Date 2021.5.6

Signature 