



浙江三花制冷集团有限公司
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Ball valves

BV1-DoC_EU-R2112

The EU Declaration of Conformity

Issued in accordance with:

The Pressure Equipment Directive 2014/68/EU

The manufacturer's name and address:

Company: Zhejiang Sanhua Climate and Appliance Controls Group Co., Ltd

Address: Xialiquan, Qixing District, Xinchang, 312500, Zhejiang, China

Authorized Representative: Mr. Ilan Peleg

Authorized Company: Sanhua International Europe S.L.

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

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

Declaration:

Ball 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
SBV - Full Port	45	See Table 2a
SBV - Reduced Port	45	See Table 2b
SBV-R	49	See Table 3
RBV-R	49	See Table 4
CBV	60	See Table 5
CBVT	140	See Table 6

Table 1

Description of Products:

Design Pressure (PS):	45 bar					
Temperaure Range (TS)*(1):	-40°C / +120°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL	DN (mm)	Connection ØD ODS	PED category	Module annex III – PED Directive 2014/68/EU	PED category	Module annex III – PED Directive 2014/68/EU
SBV02-xxx	11,1	6mm & 1/4"	Art. 4.3	-	Art. 4.3	-
SBV03-xxx	11,1	10mm & 3/8"	Art. 4.3	-	Art. 4.3	-
SBV04-xxx	11,1	12mm & 1/2"	Art. 4.3	-	Art. 4.3	-
SBV(M)-(J)A5YHSY-x-xx	13,9	15, 16mm (5/8")	Art. 4.3	-	Art. 4.3	-
SBV(M)-(J)A6YHSY-x-xx	17,1	18mm & 3/4"	Art. 4.3	-	Art. 4.3	-
SBV(M)-(J)A7YHSY-x-xx	19,8	22mm (7/8)	Art. 4.3	-	Art. 4.3	-
SBV(M)-(J)A9YHSY-x-xx	25,6	28mm & 1" 1/8	NOT CERTIFIED	-	Art. 4.3	-
SBV(M)-(J)A11YHSY-x-xx	31,0	35mm (1" 3/8)	NOT CERTIFIED	-	Art. 4.3	-
SBV(M)-(J)A13YHSY-x-xx	37,3	42mm (1" 5/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV(M)-(J)A17YHSY-x-xx	49,0	54mm (2" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV(M)-(J)A19YHSY-x-xx	49,0	64mm	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV(M)-(J)A21YHSY-x-xx	60,7	2" 5/8	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV(M)-(J)A25YHSY-x-xx	72,4	80mm (3" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV(M)-(J)A29YHSY-x-xx	83,7	92mm (3" 5/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV(M)-(J)A33YHSY-x-xx	95,2	105mm (4" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV(M)-(J)A34YHSY-x-xx	95,2	108mm (4" 1/4)	NOT CERTIFIED	-	Cat.I	A (point 1)

Table 2a

Description of Products:

Design Pressure (PS):	45 bar					
Temperaure Range (TS)*(1):	-40°C / +120°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL	DN (mm)	Connection ØD ODS	PED category	Module annex III – PED Directive 2014/68/EU	PED category	Module annex III – PED Directive 2014/68/EU
SBV06-6xx/8xx	13,9	18mm & 3/4"	Art. 4.3	-	Art. 4.3	-
SBV07-6xx/8xx	17,1	22mm (7/8)	Art. 4.3	-	Art. 4.3	-
SBV09-6xx/8xx	19,8	28mm & 1" 1/8	Art. 4.3	-	Art. 4.3	-
SBV11-6xx/8xx	25,6	35mm (1" 3/8)	NOT CERTIFIED	-	Art. 4.3	-
SBV13-6xx/8xx	31,0	42mm (1" 5/8)	NOT CERTIFIED	-	Art. 4.3	-
SBV17-6xx/8xx	49,0	54mm (2" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV21-6xx/8xx	49,0	2" 5/8	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV25-6xx/8xx	60,7	80mm (3" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV29-6xx/8xx	72,4	92mm (3" 5/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV33-6xx/8xx	83,7	105mm (4" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
SBV34-6xx/8xx	83,7	108mm (4" 1/4)	NOT CERTIFIED	-	Cat.I	A (point 1)

Table 2b

Design Pressure (PS):	49 bar					
Temperaure Range (TS)*(1):	-40°C / +120°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL	DN (mm)	Connection ØD ODS	PED category	Module annex III – PED Directive 2014/68/EU	PED category	Module annex III – PED Directive 2014/68/EU
SBV02-xxxR	11,1	6mm & 1/4"	Art. 4.3	-	Art. 4.3	-
SBV03-xxxR	11,1	10mm & 3/8"	Art. 4.3	-	Art. 4.3	-
SBV04-xxxR	11,1	12mm & 1/2"	Art. 4.3	-	Art. 4.3	-
SBV05-xxxR	13,9	15, 16mm (5/8")	Art. 4.3	-	Art. 4.3	-
SBV06-xxxR	17,1	18mm & 3/4"	Art. 4.3	-	Art. 4.3	-
SBV07-xxxR	19,8	22mm (7/8)	Art. 4.3	-	Art. 4.3	-
SBV09-xxxR	25,6	28mm & 1" 1/8	Cat. II	D	Art. 4.3	-
SBV11-xxxR	31,0	35mm (1" 3/8)	Cat. II	D	Art. 4.3	-
SBV13-xxxR	37,3	42mm (1" 5/8)	Cat. II	D	Cat.I	A (point 1)
SBV17-xxxR	49,0	54mm (2" 1/8)	Cat. II	D	Cat.I	A (point 1)
SBV19-xxxR	49,0	64mm	Cat. II	D	Cat.I	A (point 1)
SBV21-xxxR	60,7	2" 5/8	Cat. II	D	Cat.I	A (point 1)
SBV25-xxxR	72,4	80mm (3" 1/8)	Cat. II	D	Cat.I	A (point 1)
SBV29-xxxR	83,7	92mm (3" 5/8)	NOT CERTIFIED	-	Cat.I	A (point 1)

Table 3

Design Pressure (PS):	49 bar					
Temperaure Range (TS):	-60°C / +160°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL	DN (mm)	Connection ØD ODS	PED category	Module annex III – PED Directive 2014/68/EU	PED category	Module annex III – PED Directive 2014/68/EU
RBV02-xxxR	13,9	6mm & 1/4"	Art. 4.3	-	Art. 4.3	-
RBV03-xxxR	13,9	10mm & 3/8"	Art. 4.3	-	Art. 4.3	-
RBV04-xxxR	13,9	12mm & 1/2"	Art. 4.3	-	Art. 4.3	-
RBV05-xxxR	13,9	16mm (5/8")	Art. 4.3	-	Art. 4.3	-
RBV06-xxxR	17,1	3/4"	Art. 4.3	-	Art. 4.3	-
RBV07-xxxR	19,8	22mm (7/8)	Art. 4.3	-	Art. 4.3	-
RBV09-xxxR	25,6	28mm & 1" 1/8	Cat. II	D	Art. 4.3	-
RBV11-xxxR	31,0	35mm (1" 3/8)	Cat. II	D	Art. 4.3	-
RBV13-xxxR	37,3	42mm (1" 5/8)	Cat. II	D	Cat.I	A (point 1)
RBV17-xxxR	49,0	54mm (2" 1/8)	Cat. II	D	Cat.I	A (point 1)
RBV21-xxxR	60,7	2" 5/8	NOT CERTIFIED	-	Cat.I	A (point 1)
RBV25-xxxR	72,4	80mm (3" 1/8)	NOT CERTIFIED	-	Cat.I	A (point 1)
RBV29-xxxR	83,7	92mm (3" 5/8)	NOT CERTIFIED	-	Cat.I	A (point 1)

Table 4

Design Pressure (PS):		60 bar					
Temperature Range (TS):		-40°C / +150°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL	DN (mm)	Connection ØD ODS	PED category	Module annex III – PED Directive 2014/68/EU	PED category	Module annex III – PED Directive 2014/68/EU	
CBV02-xxx	13,9	6mm & 1/4"	NOT SUITABLE	-	Art. 4.3	-	
CBV03-xxx	13,9	10mm & 3/8"	NOT SUITABLE	-	Art. 4.3	-	
CBV04-xxx	13,9	12mm & 1/2"	NOT SUITABLE	-	Art. 4.3	-	
CBV05-xxx	13,9	16mm (5/8")	NOT SUITABLE	-	Art. 4.3	-	
CBV06-xxx	17,1	18mm & 3/4"	NOT SUITABLE	-	Art. 4.3	-	
CBV07-xxx	19,8	22mm (7/8)	NOT SUITABLE	-	Art. 4.3	-	
CBV09-xxx	25,6	28mm & 1" 1/8	NOT SUITABLE	-	Art. 4.3	-	
CBV11-xxx	31,0	35mm (1" 3/8)	NOT SUITABLE	-	Art. 4.3	-	
CBV13-xxx	37,3	42mm & 1" 5/8	NOT SUITABLE	-	Cat.I	A (point 1)	
CBV17-xxx	49,0	54mm (2" 1/8)	NOT SUITABLE	-	Cat.I	A (point 1)	

Table 5

Design Pressure (PS):		140 bar					
Temperature Range (TS):		-40°C / +150°C		FLUID GROUP I		FLUID GROUP II	
SANHUA MODEL	DN (mm)	Connection ØD ODS	PED category	Module annex III – PED Directive 2014/68/EU	PED category	Module annex III – PED Directive 2014/68/EU	
CBVT 02Hxxx	11,1	6mm & 1/4"	NOT SUITABLE	-	Art. 4.3	-	
CBVT 03Hxxx	11,1	10mm & 3/8"	NOT SUITABLE	-	Art. 4.3	-	
CBVT 04Hxxx	11,1	12mm & 1/2"	NOT SUITABLE	-	Art. 4.3	-	
CBVT 05Hxxx	14,2	15, 16mm (5/8")	NOT SUITABLE	-	Art. 4.3	-	
CBVT 06Hxxx	19,6	18mm & 3/4"	NOT SUITABLE	-	Art. 4.3	-	
CBVT 07Hxxx	19,6	22mm (7/8)	NOT SUITABLE	-	Art. 4.3	-	
CBVT 09Hxxx	25,6	28mm & 1" 1/8	NOT SUITABLE	-	Art. 4.3	-	
CBVT 11H3xx	31,0	35mm (1" 3/8)	NOT SUITABLE	-	Art. 4.3	-	
CBVT 11H0xx	35,0	35mm (1" 3/8)	NOT SUITABLE	-	Cat.I	A (point 1)	
CBVT 13Hxxx	39,0	42mm & 1" 5/8	NOT SUITABLE	-	Cat.I	A (point 1)	
CBVT 17Hxxx	51,0	54mm (2" 1/8)	NOT SUITABLE	-	Cat.I	A (point 1)	

Table 6

Note:

*(1): Max allowed temperatures for SBV and SBV-R series must be considered like:

Max TS = +135°C for 96 hours; Max TS = +150°C peak value for short periods

XXX 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
- 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:
- EN 12284:2003 - Refrigerating systems and heat pumps. Valves. Requirements, testing and marking
 - EN 378-2:2016 - Refrigerating systems and heat pumps. Safety and environmental requirements. Basic requirements, definitions, classification and selection criteria

Notified Body:

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
Fluid Group:	1
EC-Certificate of conformity No:	01 202 CHNQ-19 0641

Table 6

Responsible Person to issue the declaration of Conformity:	Date	Signature
Mr. Zhouyang Li	2021.12.22	

