



浙江三花制冷集团有限公司
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Ball valves

BV1-DoC_EU-R2104

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 Intelligent controls 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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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	45	See Table 2
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 2

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					
Temperaure 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					
Temperaure 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	2021.5.27	

