



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:

Ball 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 |
|----------------|----------|-------------|
| 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:

| TS (°C) | -40 to +120 | | Fluid Group I | | Fluid Group II | |
|------------------------|-------------|-------------------|-----------------|---|-----------------|---|
| Model | DN | Connection ØD ODS | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 |
| 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

| TS (°C) | -40 to +120 | | Fluid Group I | | Fluid Group II | |
|------------|-------------|-------------------|-----------------|---|-----------------|---|
| Model | DN | Connection ØD ODS | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 |
| 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) |

Table 3

| TS (°C) | -60 to +160 | | Fluid Group I | | Fluid Group II | | |
|---------|-------------|------|-------------------|-----------------|---|-----------------|---|
| | Model | DN | Connection ØD ODS | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 |
| | 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) |

Table 4

| TS (°C) | -40 to +150 | | Fluid Group I | | Fluid Group II | | |
|---------|-------------|------|-------------------|-----------------|---|-----------------|---|
| | Model | DN | Connection ØD ODS | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 |
| | CBV02-xxx | 13.9 | 6mm & 1/4" | NA | - | Art. 4.3 | - |

| | | | | | | |
|-----------|------|---------------|----|---|----------|-------------|
| CBV03-xxx | 13.9 | 10mm & 3/8" | NA | - | Art. 4.3 | - |
| CBV04-xxx | 13.9 | 12mm & 1/2" | NA | - | Art. 4.3 | - |
| CBV05-xxx | 13.9 | 16mm (5/8") | NA | - | Art. 4.3 | - |
| CBV06-xxx | 17.1 | 18mm & 3/4" | NA | - | Art. 4.3 | - |
| CBV07-xxx | 19.8 | 22mm (7/8) | NA | - | Art. 4.3 | - |
| CBV09-xxx | 25.6 | 28mm & 1" 1/8 | NA | - | Art. 4.3 | - |
| CBV11-xxx | 31.0 | 35mm (1" 3/8) | NA | - | Art. 4.3 | A (point 1) |
| CBV13-xxx | 37.3 | 42mm & 1" 5/8 | NA | - | Cat.I | A (point 1) |
| CBV17-xxx | 49.0 | 54mm (2" 1/8) | NA | - | Cat.I | A (point 1) |

Table 5

| TS (°C) | -40 to +150 | | Fluid Group I | | Fluid Group II | | |
|---------|-------------|------|-------------------|-----------------|---|-----------------|---|
| | Model | DN | Connection ØD ODS | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 | Safety category | Part 3 – Pressure Equipment (Safety) Regulations 2016 |
| | CBVT 02Hxxx | 11.1 | 6mm & 1/4" | NA | - | Art. 4.3 | - |
| | CBVT 03Hxxx | 11.1 | 10mm & 3/8" | NA | - | Art. 4.3 | - |
| | CBVT 04Hxxx | 11.1 | 12mm & 1/2" | NA | - | Art. 4.3 | - |
| | CBVT 05Hxxx | 14.2 | 15, 16mm (5/8") | NA | - | Art. 4.3 | - |
| | CBVT 06Hxxx | 19.6 | 18mm & 3/4" | NA | - | Art. 4.3 | - |
| | CBVT 07Hxxx | 19.6 | 22mm (7/8) | NA | - | Art. 4.3 | - |
| | CBVT 09Hxxx | 25.6 | 28mm & 1" 1/8 | NA | - | Art. 4.3 | - |
| | CBVT 11H3xx | 31.0 | 35mm (1" 3/8) | NA | - | Art. 4.3 | |
| | CBVT 11H0xx | 35.0 | 35mm (1" 3/8) | NA | - | Cat.I | A (point 1) |
| | CBVT 13Hxxx | 39.0 | 42mm & 1" 5/8 | NA | - | Cat.I | A (point 1) |
| | CBVT 17Hxxx | 51.0 | 54mm (2" 1/8) | NA | - | Cat.I | A (point 1) |

Table 6

XXX position: identifies an internal code

Note:

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

Max TS = +135°C for 96 hours (SBV-R series)

Max TS = +150°C for 96 hours (SBV series)

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 |

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

