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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17213.7-2017

Replacing GB/T 17213.7-1998

**Industrial-process control valves -- Part 7: Control valve data
sheet**

工业过程控制阀 第7部分：控制阀数据单
(English Translation)

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Foreword

GB/T 17213 "industrial process control valve" is divided into the following sections.

- Part 1. Control valve terms and general principles (GB/T 17213.1);
- Part 2-1. Flow capacity Calculation formula for fluid flow rate under installation conditions (GB/T 17213.2);
- Part 2-3 - Test Procedures for Flow Capability (GB/T 17213.9);
- Part 2-4. Circulation capacity inherent flow characteristics and adjustable ratio (GB/T 17213.10);
- Part 2-5. Circulation capacity Fluid through the interstage recovery multi-stage control valve formula (GB/T 17213.17);
- Part 3-1. Dimensions Two-way ball-type through-flow control valve Flange end distance and two-way ball angle control valve Flange center to flange End surface spacing (GB/T 17213.3);
- Part 3-2. Dimensionally Stroke control valve (excluding butterfly valves) End face distance (GB/T 17213.11);
- Part 3-3. Dimension Butt welded two-way ball-type through control valve end (GB/T 17213.12);
- Part 4. Tests and routine tests (GB/T 17213.4);
- Part 5. Signs (GB/T 17213.5);
- Part 6-1. Installation details of the positioner and control valve actuator connections. Mounting of the positioner on the linear actuator (GB/T 17213.6);
- Part 6-2. Installation details of the positioner and control valve actuator connections. Mounting of the positioner on the angular travel actuator (GB/T 17213.13);
- Part 7. Control valve data sheets (GB/T 17213.7);
- Part 8-1. Noise considerations Noise generated by the flow of aerodynamic flow through

control valves in the laboratory (GB/T 17213.8);

--- Part 8-2. Noise considerations Measurement of the noise generated by the flow of hydraulic fluid through control valves in the laboratory (GB/T 17213.14);

--- Part 8-3. Noise considerations Noise prediction methods for aerodynamic flow through control valves (GB/T 17213.15);

--- Part 8-4. Noise Considerations Noise Prediction Method for Flow of Liquid Flow Through Control Valves (GB/T 17213.16);

--- Part 9. Test procedures for step input response measurement (GB/T 17213.18).

This section GB/T 17213 Part 7.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 17213.7-1998 "Industrial Process Control Valve Part 7. Control Valve Data Sheet," and GB/T 17213.7-1998 compared to the main technical changes are as follows.

--- Delete the 1998 edition of the introduction and purpose of the two chapters (see 1998 edition Chapter 1, Chapter 2);

--- Modify the normative references, increase the reference GB/T 4208-2008 "enclosure protection (IP code)" (see Chapter 2);

--- Modification of the 1998 version of Chapter 6 of the suspension paragraph, to 4.1 (see 4.1; 1998 edition Chapter 6);

--- Modify the selection of three phases of the control valve as "control valve primary election specification sheet" "control valve inquiry specification sheet" "control valve ordering rules (See 4.2, 4.3, 4.4; 1998 edition 6.1, 6.2, 6.3);

--- Deleted content that may need to be included in the contents of the basic requirements of the inherent flow characteristics and adjustable ratio [see 1998 edition 7.3d)];

--- Added final inspection requirements which may need to be included in the basic requirements list [see 5.3k)];

--- Removed the original standard Chapter 8 of the suspension paragraph (see 1998 edition Chapter 8);

--- Updated the description of the item number of the contents of each number (see 6.3, 1998 version 8.3);

--- Modify the contents of the control valve data sheet (see Figure 1, 1998 version of Figure 1);

This section uses the translation method identical with IEC 60534-7:2010 "industrial

process control valves Part 7. Control valve data sheet." the documents of our country that are consistent with the corresponding international documents that are normative references in this section are as follows.

--- GB/T 17213 (all parts) Industrial Process Control Valves [IEC 60534 (all parts)] this part of IEC 60534-7:2010 made the following editorial changes.

--- Modify the 6.3 unit 20 error in the liquid and vapor density units, "kg3/m" to "kg/m3."

--- According to the legal unit of measurement of the pressure in Figure 1, the first 10,62,63 units "bar" be amended accordingly to "MPa, kPa".

This part is proposed by China Machinery Industry Federation.

This part of the National Industrial Process Measurement Control and Automation Standardization Technical Committee (SAC/TC124) centralized.

This section is drafted unit. Shanghai Industrial Automation Instrumentation Research Institute, Zhejiang Insein Technology Co., Ltd., Hangzhou Liang Valve Co., Ltd.

Division, Hangzhou Fuyang South Valve Co., Ltd., Shanghai Valve Valve Co., Ltd. special valve, Zhejiang Paowei Automation Instrumentation Co., Ltd., Wuxi Chi Control Engineering Co., Ltd. can be controlled, Chongqing Chuan-Yi Valve Co., Ltd., Zhejiang German-controlled Technology Co., Ltd., Shanghai Automation Instrument

Table Co., Ltd. Automation Instrumentation Plant, Tianjin Proficient Control Instrumentation Technology Co., Ltd. Zhejiang Tripartite Control Valve Co., Ltd. Wu Zhongyi

Table Co., Ltd., Chongqing Shunchong Instruments Co., Ltd., Emerson Process Management (Tianjin) Valve Co., Ltd.

1 Scope

This section GB/T 17213 lists a list of common requirements, these requirements are the purchase of most of the process control system Valve required. However, this section does not list all the possible requirements of the process system.

The layout of the list in this section according to a standardized data representation designed to help fill out the correct specifications, and for the use Data processing device provides the basis.

This section is accompanied by detailed instructions to ensure that you can fully understand the abbreviations and fill in the data consistency.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the

latest edition (including all amendments) applies to this document.

GB/T 4208-2008 enclosure protection (IP code) (IEC 60529:2001, IDT) Industrial process control valves - Part 1. Terminology and general rules for control valves (IEC 60534-1:2005, IDT) GB/T 17213.2-2017 Industrial process control valves Part 2-1. Flow capacity Calculation of fluid flow under installation conditions Formula (IEC 60534-2-1:2011, IDT) GB/T 17213.3-2005 industrial process control valves Part 3-1. Size two-way ball-type through-control valve flange end distance and Two-way spherical angle control valve Flange center-to-flange spacing (IEC 60534-3-1:2000, IDT) Industrial process control valves - Part 4. Tests and routine tests (IEC 60534-4:2006, IDT) GB/T 17213.5-2008 Industrial process control valves - Part 5. Marking (IEC 60534-5:2004, MOD) GB/T 17213.8-2015 Industrial Process Control Valves Section 8-1. Noise Considerations Laboratory Measurement of Aerodynamic Flows Noise generated by control valves (IEC 60534-8-1:2005, IDT) GB/T 17213.10-2015 industrial process control valves - Part 2-4. Flow capacity of the inherent flow characteristics and adjustable ratio (IEC 60534-2-4:2009, IDT) GB/T 17213.11-2005 industrial process control valves Part 3-2. Size Angle stroke control valve (butterfly valve) End distance (IEC 60534-3-2:2001, IDT) GB/T 17213.12-2005 Industrial process control valves - Part 3-3. Dimensions The end of the two-way ball-type through-flow control valve (IEC 60534-3-3:1998, IDT) GB/T 17213.15-2017 industrial process control valves Part 8-3. Consideration of noise Aerodynamic flow generated by the control valve Noise Prediction Method (IEC 60534-8-3:2010, IDT) GB/T 17213.16-2015 Industrial Process Control Valves Part 8-4. Noise Considerations Noise generated by the flow of hydraulic fluid through control valves Acoustic prediction method (IEC 60534-8-4:2005, IDT) GB/T 17213.17-2010 industrial process control valves - Part 2-5. Flow capacity of fluid flow through the interstage recovery multi-stage control valve the calculation formula (IEC 60534-2-5:2003, IDT) IEC 60534 (all parts) Industrial process control valves (Industrial-processcontrolvalves)