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PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国城镇建设行业标准

CJ/T 217-2013
Replaces CJ/T 217-2005

Compound quick air inbreathe-release valve for water supply pipeline

给水管道复合式高速进排气阀

Issued on April 27, 2013 Implemented on October 1, 2013

Issued by Ministry of Housing and Urban-Rural Development of the People's Republic of China

Contents

Foreword

This Standard is drafted according to the rules specified in GB/T 1.1-2009.

The Standard is an amendment to CJ/T 217—2005 of *Compound Quick Air Inbreathe-Release Valve for Water Supply Pipeline*. This Standard, in comparison with CJ/T 217—2005 have the major technical changes as follows:

——Modified the scope of application for nominal size, nominal pressure and water temperature in Chapter 1;

——Modified the guidance language and increase and decrease the normative references in Chapter 2;

——Increased the terms and definitions of floating body, floating body module, large intake and exhausted hole and small intake and exhausted hole;

——Modified the terms and definitions of "air pressure when closing of air inbreathe-release valve";

——Deleted the material part in the chapter of "Requirements” and the put the material part as a separate chapter;

——Increased the copper alloy as valve body materials;

——Increased the carbon structural steel as part materials;

——Increased the exhaust volume parameters of nominal size for DN15~DN50 in Table 2;

——Increased the requirement of installing a protective cover on the outside of the air intake and exhaust passage between the valve body and valve bonnet;

——Increased the content of inspection items in original Table 4 "Inspection and Test Items", and revise and edit it as Table 3 "Inspection Items";

——Modified the presentation form of sampling inspection, and delete the original Table 3 "Sampling Table for Predelivery Test Sample";

——Modified the original Figure 1 of monolithic structure style for air inbreathe-release valve to Figure A. la), and remove the structure figure from the main body and incorporate it into Appendix A;

——Increased the Figure A. lc) of basic structure style for "Air Inbreathe-Release Valve of Threaded Connection" in Appendix A;

——Increased the specifications and quantity of curve graph for intake and exhaust

volume in Figure A. 1 of original Appendix A, and change the Appendix A to Appendix C;

——Deleted the original Appendix C, and incorporate the Figure C. 2 in original Appendix C into Appendix F;

——Deleted the section of "Test Report" in original Chapter 9;

——Deleted the "Test Report Card" in original Appendix E, and change the original Appendix D to Appendix E;

——Modified the content of Chapter 5 "Product Model", and incorporate 5.1and 5.2 into Appendix B;

——Deleted the B.1 "Calculate the Exhaust Volume Measured by the Law of Conservation of Mass" in original Appendix B, incorporate the original B.2 "Calculate the Exhaust Volume Measured by orifice plate" into Appendix D, and increase the calculation Formula of pressure differential between inlet pressure and outlet pressure when the air inbreathe-release valve releases.

The Standard referred to the preparation of ANSI / AWWA C512-2004 of Automatic Air Valve, Air Valve/Vacuum Valve and Compound Air Release Valve for Water Supply System.

This Standard is proposed by Standard Rating Institute of Ministry of Housing and Urban-rural Development.

This standard is under jurisdiction of Municipal Water Supply and Drainage Standardization Technical Committee of the Ministry of Housing and Urban-rural Development.

This Standard is drafted by: Guangdong Yongquan Valve Science and Technology Co., Ltd., Guangdong Zhude Industrial Co., Ltd., Beijing Yongquan Tengda Valve Science and Technology Co., Ltd.

The main drafter of this Standard: Chen Jianming, Liang Jianlin, Cheng Yuanjun, Wu Baimin, Pan Qingxiang, Chen Yanming.

The issuances of previous versions of the standard replaced by this standard are as follows:

——CJ/T 217—2005.

Compound quick air inbreathe-release valve for water supply pipeline

1 Scope

This Standard specifies the term and definition, structure style, product model, materials, requirements, test methods, inspection rules, marks, product specification, product packaging, storage and transportation of compound quick air inbreathe-release valve for water supply pipeline (hereinafter referred to as air inbreathe-release valve).

The Standard applies to the air inbreathe-release valve of nominal size of DN15~DN300, nominal pressure of not more than PN25 and water temperature of 0℃~40℃ for water supply pipeline.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 196 General purpose metric screw threads—Basic dimensions

GB/T 197 General purpose metric screw threads—Tolerances

GB/T 700 Carbon structural steels

GB/T 1047 Pipework components--Definition and selection of DN(nominal size)

GB/T 1048 Pipework components--Definition and selection of PN

GB/T 3098 (All parts) Mechanical properties of fasteners

GB/T 3280 Cold rolled stainless steel plate sheet and strip

GB/T 6739-2006 Paints and varnishes - Determination of film hardness by pencil test

GB/T 7306.2 Pipe threads with 55 degree thread angle where pressure-tight joints are made on the threads--Part 2: Taper internal and external threads

GB/T 8923-2008 Preparation of steel substrates before application of paints and related products

GB/T 9286-1998 Paints and varnishes-Cross cut test for films

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