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

GB/T 15345-2017

Replacing GB/T 15345-2003

Test methods of concrete pipes for water transmission

混凝土输水管试验方法

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Quarantine of the People's Republic of China;
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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 15345-2003 "concrete water pipe test method". This standard compared with GB/T 15345-2003, the main changes are as follows:

--- to expand the scope of application of the standard, an increase of unbonded prestressed concrete pipe, jacking construction method with steel tube concrete pipe (see paragraph

1 Chapter, chapter 1 of the.2003 edition); - Revised some normative references (see Chapter 2, Chapter 2 of the.2003 edition); - to add, modify, and delete some of the terms and definitions (see Chapter 3, Chapter 3 of the.2003 edition); - "Test instruments and gauges" and the normative appendix "Major instruments and gauges for testing" (see chapter 4 of the.2003 edition and Appendix A); - Additional requirements for instrumentation and test equipment are added to each project test method (see Chapter 4, Chapter 5, paragraph Chapter 6, Chapter 8, Chapter 11); - modified part of the geometry of the test method (see Chapter 5,.2003 version of Chapter 6); - Added "PCCP, JCCP Outside Pressure Load Test Method (Three Point Test Method)" and as a normative appendix (see Chapter 7 and attached Recorded B); - Modification of the data Appendix "Protective mortar compressive strength test method (cutting method)" for the normative appendix (see Chapter 9 and Appendix C,.2003 version

11.4 and appendix C);

--- Removal of protective layer mortar water absorption test methods and information Appendix "PCCP protective layer mortar water absorption test method (pressure (See Chapter 12 and Appendix D of the.2003 edition);

--- the "protective layer mortar water absorption" to "protective layer mortar water absorption," modified the data Appendix "protective layer mortar water absorption test (As described in Chapter 10 and Appendix D, Edition.2003), and as a normative appendix (see Chapter 10 and Appendix D, Edition.2003) And Annex E);

--- Removal of "mortar strength of protective layer" Test method and normative appendix "Manufacture and maintenance of protective mortar test piece" (see Edition.2003 11.1, 11.2,

11.3 and appendix B); - modified and increased the test method for the control of the rotation angle of the double-fold PCCP by the tube end displacement value or the joint clearance difference (see 11.4,.2003 Version of the 13.5);

--- Added information on the "PCCP, JCCP and UPCP hydraulic test devices" (see Appendix A). This standard is proposed by the China Building Materials Federation. This standard by the National Cement Products Standardization Technical Committee (SAC/TC197) centralized. This standard is responsible for drafting units. Suzhou Institute of concrete and cement products testing center, Suzhou Institute of concrete and cement products limited the company. This standard participates in the drafting unit. Xinjiang National System Pipeline Co., Ltd., Shandong Longquan Pipeline Engineering Co., Ltd., Beijing Han Jianhe Hill Pipe Industry Co., Ltd., Wuxi Huayi Pipeline Co., Ltd., Ningxia Qinglong Pipe Industry Co., Ltd., Shandong Shanshui Cement Group Co., Ltd. Pipeline Branch, Shandong Electric Power Pipeline Engineering Company, Tianjin Ze Po Cement Products Co., Ltd., Nanning Hongji Cement Products Co., Ltd. Division, Shanxi Yellow River Water Conservancy Engineering Consulting Co., Ltd., China Water

6 Bureau Huazhuang Kaiyuan Pipe Co., Ltd., Shandong Yu Wang Pipe Industry Co., Ltd., Zhejiang giant Long Guanye Co., Ltd., Yangzhou Zhongyi Cement Products Co., Ltd., Hengrun Group Co., Ltd., Jiangsu Xinjia Pipe Industry Co., Ltd., Jiangsu Light Shuangshun Machinery Manufacturing Co., Ltd., Shenyang Jiayu Tools Co., Ltd. The main drafters of this standard. Tian Hua, Tang Wenyou, Li Shilong, Wang Xiangmin, Fu Zhizhang, Gao Jinping, Liu Chuan, Wang Na, Yang Yanying, Yu Yujing, Zhang Liang, Du Ze, Ni Zhiquan, Song Kejun, Li Jiali, Wang Gaorong, Dong Zhengwei. This standard replaced the previous version of the standard release. GB/T 15345-1994, GB/T 15345-2003. Test method for concrete water pipes

1 Scope

GB/T 15345-2017 is the Chinese national standard on test methods of concrete pipes for water transmission, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 May 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2018.

Classification: ICS 91.100.30, CCS Q14. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the appearance quality, geometry, water pressure, external pressure load, concrete strength, and mortar resistance of the concrete water mains

Degree, protective layer mortar water absorption, pipe joints relative angle and other items of the test method. This standard applies to self-stressing concrete pipes (hereinafter referred to as SCP), one-stage prestressed concrete pipes (hereinafter referred to as YYG), three Stage prestressed concrete pipe (hereinafter referred to as SYG), prestressed concrete drum (hereinafter referred to as PCCP), unbonded prestressed mixing Concrete pipe (hereinafter referred to as UPCP) and jacking construction method with concrete pipe (hereinafter referred to as JCCP) and other six concrete water pipes. Other concrete pipes may be implemented with reference to this standard.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 1226 general pressure gauge

GB/T 3159 hydraulic universal testing machine

GB/T 4084 self - stress concrete water pipe

GB/T 5696 prestressed concrete pipe

GB/T 6092 rectangular ruler Representation and Judgment of Numerical Correction Rule and Limit Value of GB/T 8170

GB/T 8177 Two - point diameter micrometer

GB/T 9056 metal ruler Test method for compressive strength of concrete for concrete pipes
GB/T Prestressed steel tube concrete pipe GB/T

GB/T 21388 Cursor, with table and digital depth caliper

GB/T 21389 Cursor, with table and digital caliper

GB/T 22773 mechanical stopwatch

GB/T 22778 LCD digital quartz stopwatch

GB/T 30435 electric drying oven and electric blast oven Standard for test methods for mechanical properties of ordinary concrete GB/T

GB/T 50107 Concrete strength test and evaluation standard

3 Terms and definitions

The following terms and definitions apply to this document.