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

**中华人民共和国国家标准**

**GB/T 18993.2-2003**

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**Chlorinated poly (vinyl chloride) piping systems  
for hot and cold water installations-Part 2: Pipes**

**冷热水用氯化聚氯乙烯 (PVC-C) 管道系统**

**第 2 部分：管材**

**Issued on March 05, 2003**

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## Foreword

GB/T 18993-2003 is constituted of the following 3 parts:

Chlorinated Poly (PVC-C) Piping Systems for Hot and Cold Water Installations – Part 1:

General

Chlorinated Poly (PVC-C) Piping Systems for Hot and Cold Water Installations – Part 2:

Pipes

Chlorinated Poly (PVC-C) Piping Systems for Hot and Cold Water Installations – Part 3:

Pipe Fittings

This standard is formulated on the basis of the series of *ISO/DIS 15877:1999 Plastics Piping Systems for Hot and Cold Water Installations – Chlorinated Poly (PVC-C)* compiled by the Technical Committee on Plastic Pipes and Pipe Fittings and Valves for Fluid Transportation, International Organization for Standardization (ISO/TC 138) and in combination of the actual production and use conditions of chlorinated polyvinyl chloride pipes and pipe fittings in China.

Compared with ISO/DIS 15877-2.2:1999, the main technical changes of this standard are shown as follows:

—The relevant contents in Section 5 and 7 of ISO/DIS 15877:1999, such as the compatibility test and thermal circulation test of piping system are included in this part of standard.

—For the same piping system S, the highest leveled test conditions from different test conditions corresponding to different use conditions shall be subject.

—Add type test.

Annex A of this standard is normative.

This part of standard is proposed by China National Light Industry Council.

This part of standard is under the jurisdiction of the National Technical Committee on Packaging of Standardization Administration of China.

The drafting units of this part of standard: Zhongshan Universal Enterprise Ltd., China Youli Piping Company, and Fujian Aton Advanced Materials Technology Co.,Ltd.

The main drafters of this part of standard: HE Anhua, ZHANG Weifeng, HU Xucang, ZHU Shengfeng and WEI Zuoyou.

# Chlorinated Poly (PVC-C) Piping Systems for Hot and Cold Water Installations – Part 2: Pipes

## 1 Scope

This part of standard specifies the materials, product classification, technical requirements, test methods, inspection rules and labeling, packaging, transportation and storage of the extrusion-molded chlorinated polyvinyl chloride pipes for hot and cold water transmission.

This part of standard together with Part 1 and 3 is applicable to the industrial or civilian used hot and cold water piping systems.

## 2 Normative references

The articles contained in the following documents have become articles of this part when they are quoted in this part of GB/T 18993. For the dated documents so quoted, all subsequent modifications (including all corrections) or revisions made thereafter do not apply to this standard. However, the parties that reach an agreement according to this standard are encouraged to study whether the latest versions of these documents may be used. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 1033—1986 Test method for density and relative density of plastics

GB/T 2828-1987 Sampling procedures and tables for lot-by-lot inspection by attributes  
(Apply to inspection of successive lots or batches)

GB/T 2918—1998 Plastics--STANDARD atmospheres for conditioning and testing (idt ISO 291: 1997)

GB/T 6111-2003 Thermoplastics pipes for the conveyance of fluids—Resistance to internal pressure—Test method (idt ISO 1167: 1996)

GB/T 6671—2001 Thermoplastics pipes--Determination of longitudinal reversion (eqv ISO 2505—1994)

GB/T 8802—2001 Thermoplastics pipes and fitting--Determination of vicat softening temperature (eqv ISO 2507: 1995)

GB/T 8804. 2-2003 Thermoplastic pipes-Determination of tensile properties--Part 2:Pipes made of unplasticized poly (vinyl chloride)(PVC-U),chlorinated poly (vinyl chloride)(PVC-C) and high-impact poly (vinyl chloride)(PVC-HI)(idt ISO 6295-2: 1997)

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