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

GB/T 18993.3-2020

Replacing GB/T 18993.3-2003

**Chlorinated Polyvinyl Chloride (PVC-C) Piping System for Hot
and Cold Water - Part 3: Fittings**

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3.1 Terms and definitions

Foreword

GB/T 18993 "Chlorinated Polyvinyl Chloride (PVC-C) Piping System for Hot and Cold Water" is divided into 5 parts.

---Part 1.General Provisions;

---Part 2.Pipes;

---Part 3.Pipe fittings;

---Part 4.Valve;

---Part 5.System applicability.

This part is Part 3 of GB/T 18993.

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

This part replaces GB/T 18993.3-2003 "Chlorinated polyvinyl chloride (PVC-C) piping system for cold and hot water Part 3.Pipe fittings",

Compared with GB/T 18993.3-2003, the main technical changes are as follows.

---Modified the scope (see Chapter 1, Chapter 1 of the.2003 edition);

---Updated normative references (see Chapter 2, Chapter 2 of the.2003 edition);

---Added terms and definitions, symbols (see Chapter 3, Chapter 3 of the.2003 edition);

---Modified the requirements for recycled materials (see 4.2, Chapter 4 of the.2003 edition);

---Added the requirements for adhesives (see 4.3);

---Modified product classification (see Chapter 5, Chapter 5 of the.2003 edition);

--- Modify the color requirements (see 6.1,.2003 version 6.1);

---Added the requirements for the wall thickness of the socket socket of the pipe fitting (see

6.3.2);

--- Deleted the requirement of the out-of-roundness deviation of the cylindrical socket size (see 6.4.3 of the.2003 edition);

--- The specific content of the system suitability test is deleted (see 6.9 in the.2003 edition);

---Modified the adjustment of the test state (see 8.1, 7.1 of the.2003 edition);

---Inspection classification has been added (see 9.1);

---Modified the factory inspection items (see 9.4.1, 8.4.1 of the.2003 edition);

--- Modify "Qualified Quality Level 6.5 Inspection" to "Acceptable Quality Limit (AQL) 4.0" (see 9.4.2, 8.4.2 of the.2003 edition);

---Modified the requirements for type inspection (see 9.5, 8.5 in.2003 edition);

---Modified the judgment rules (see 9.6, 8.6 in the.2003 edition);

---Adjust the flange size and schematic diagram of the.2003 version of 6.4.4 to Appendix C (see Appendix C);

---The basic type and installation length of pipe fittings have been increased (see Appendix D).

This part uses the redrafting method to modify and adopt ISO 15877-3.2009 "Plastic piping system for cold and hot water. Chlorinated polyvinyl chloride

(PVC-C) Part 3.Pipe Fittings.

Compared with ISO 15877-3.2009, this part has more structural adjustments. Appendix A lists this part and ISO 15877-3.

The.2009 chapter number comparison list.

Compared with ISO 15877-3.2009, this part has technical differences. The clauses related to these differences have been passed on the outer margins.

The vertical single line (|) of the position is marked, and a list of the corresponding technical differences and their reasons is given in Appendix B.

This section has made the following editorial changes.

--- Amend the standard name to "Chlorinated Polyvinyl Chloride (PVC-C) Piping System for Cold and Hot Water Part 3.Pipe Fittings".

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This part was proposed by the China National Light Industry Council.

This part is under the jurisdiction of the National Plastic Products Standardization Technical

Committee (SAC/TC48).

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1 Scope

This part of GB/T 18993 specifies that chlorinated polyvinyl chloride (PVC-C) resin is used as the main raw material for injection molding of cold and hot water.

Terms and definitions, symbols, materials, product classifications, requirements, system suitability tests, test methods for chlorinated polyvinyl chloride pipe fittings (hereinafter referred to as pipe fittings)

Laws, inspection rules and signs, packaging, transportation and storage.

This part and other parts of GB/T 18993 are applicable to chlorinated polyvinyl chloride (PVC-C) piping systems for building hot and cold water.

Note. It is the responsibility of the purchaser to select this product appropriately according to its specific application requirements, combined with relevant regulations, standards or specifications.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 1033.1 Determination of the density of plastic non-foam plastics Part 1.Immersion method, liquid pycnometer method and titration method

(GB/T 1033.1-2008, ISO 1183-1.2004, IDT)

GB/T 2828.1 Sampling inspection procedure by attributes Part 1.Batch inspection sampling plan retrieved by acceptance quality limit (AQL)

(GB/T 2828.1-2012, ISO 2859-1.1999, IDT)

GB/T 2918 Standard environment for condition adjustment and testing of plastic specimens (GB/T 2918-2018, ISO 291.2008, MOD)

GB/T 6111-2018 Determination of internal pressure resistance of thermoplastic piping systems for fluid transportation (ISO 1167-1.2006;

ISO 1167-2..2006; ISO 1167-3..2007; ISO 1167-4;.2007, NEQ)

GB/T 7306 (all parts) 55° sealed pipe thread (eqvISO 7-1.1994)

Determination of the Vicat softening temperature of GB/T 8802 thermoplastic pipes and fittings (GB/T 8802-2001, eqvISO 2507.1995)

GB/T 8803 Injection molding rigid polyvinyl chloride (PVC-U), chlorinated polyvinyl chloride (PVC-C), acrylonitrile butadiene styrene three

Test method for hot oven of ABS and acrylonitrile-styrene-acrylate terpolymer (ASA) pipe fittings

GB/T 8806 Plastic piping system plastic parts size determination (GB/T 8806-2008, ISO 3126.2005, IDT)

GB/T 17219 Safety evaluation standard for drinking water distribution equipment and protective materials

GB/T 18993.1-2020 Chlorinated Polyvinyl Chloride (PVC-C) Piping System for Hot and Cold Water Part 1.General (ISO 15877-1.2009, MOD)

GB/T 18993.2-2020 Chlorinated Polyvinyl Chloride (PVC-C) Piping System for Hot and Cold Water Part 2.Pipes (ISO 15877-2.2009, MOD)

GB/T 18993.5-2020 Chlorinated Polyvinyl Chloride (PVC-C) Piping System for Hot and Cold Water Part 5.System Applicability (ISO 15877-5.2009, MOD)

GB/T 19278-2018 General terms and definitions for thermoplastic pipes, fittings and valves

GB/T 21300 Determination of the opacity of plastic pipes and fittings (GB/T 21300-2007, ISO 7686.2005, IDT)

3.1 Terms and definitions

The following terms and definitions defined in GB/T 18993.1-2020 and GB/T 19278-2018 apply to this document.