



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

GB/T 18998.3-2022

**Chlorinated poly(vinyl chloride) (PVC-C) piping systems for
industrial applications - Part 3: Fittings**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 3 of GB/T 18998 "Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping System". GB/T 18998 has

The following sections were published.

- Part 1. General;
- Part 2. Pipes;
- Part 3. Pipe fittings;
- Part 5. System suitability.

This document replaces GB/T 18998.3-2003 "Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping System Part 3. Pipe Fittings", and

Compared with GB/T 18998.3-2003, in addition to structural adjustment and editorial changes, the main technical changes are as follows.

- a) changed the scope (see Chapter 1, Chapter 1 of the.2003 edition);
- b) Changed terms and definitions, symbols, abbreviations (see Chapter 3, Chapter 3 of the.2003 edition);
- c) Added requirements for recycled materials (see 4.2);
- d) Added requirements for adhesives (see 4.3);
- e) The classification of pipe fittings by pipe series S is deleted (see 5.1 of the.2003 edition);
- f) The requirements for the size of the conical socket are deleted (see 5.2.1 of the.2003

edition);

g) Changed the requirements for appearance (see 6.2, 6.2 of the.2003 edition);

h) The requirements for the wall thickness of the main body of the pipe fittings are added (see 6.3.1);

i) The requirements for the wall thickness of the socket and socket of the pipe fittings are added (see 6.3.2);

j) Footnotes a and b of Table 1 have been changed (see Table 1, Table 1 of the.2003 edition);

k) Changed the requirements for hydrostatic strength at 20°C (see 6.4, 6.6.1 of the.2003 edition);

l) Added requirements for opacity (see 6.5);

m) changed the requirements for chlorine content (see 6.5);

n) The calculation formula of hydrostatic strength test pressure is added (see 8.4);

o) Deleted the specific content of the system suitability test (see 6.7 of the.2003 edition);

p) added inspection classification (see 9.1);

q) Added pipe fitting size grouping (see 9.2.2);

r) Change the inspection of Acceptable Quality Level 6.5 to Acceptable Quality Limit (AQL) 4.0 (see 9.4.2, 8.3.2 of the.2003 edition);

s) Changed the requirements for type inspection (see 9.5, 8.4 of the.2003 edition);

t) Changed the decision rule (see 9.6, 8.5 of the.2003 edition);

u) Adjust the flange size and schematic diagram in 5.2.2 of the.2003 edition to Appendix A (see Appendix A).

This document refers to ISO 15493.2003 "Industrial Plastics Piping Systems Acrylonitrile-Butadiene-Styrene Plastics (ABS), Rigid Polyvinyl Chloride

Ethylene (PVC-U) and Chlorinated Polyvinyl Chloride (PVC-C) Components and Systems - Metric Series" and ISO 15493.2003/Amd.2016

Drafted, the degree of consistency is non-equivalent.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 18998 according to the national conditions of my country's industrial pipeline industry,

combined with many years of industrial chlorinated polyvinyl chloride (PVC-C) pipeline engineering

Design experience developed. This document contains four parts. general rules, pipes, fittings, and system applicability.

--- Part 1.General. The purpose is to establish terms and definitions applicable to industrial chlorinated polyvinyl chloride (PVC-C) piping systems,

Symbols, Abbreviations and Materials.

--- Part 2.Tubing. The purpose is to standardize the product requirements, test methods and inspection of industrial chlorinated polyvinyl chloride (PVC-C) pipes.

Inspection rules and other related requirements.

--- Part 3.Fittings. The purpose is to standardize the product requirements, test methods and inspection of industrial chlorinated polyvinyl chloride (PVC-C) pipe fittings.

Inspection rules and other related requirements.

--- Part 5.System suitability. The purpose is to standardize the system suitability of industrial chlorinated polyvinyl chloride (PVC-C) piping systems

Test items, test methods and other related requirements.

Industrial Chlorinated Polyvinyl Chloride (PVC-C) Piping Systems

Part 3.Fittings

1 Scope

This document specifies the chlorinated polyvinyl chloride (PVC-C) resin as the main raw material, the industrial chlorinated polyvinyl chloride by injection molding

(PVC-C) pipe fittings (hereinafter referred to as pipe fittings) terms and definitions, symbols, abbreviations, materials, product classification, requirements, system suitability, test methods

laws, inspection rules and marking, packaging, transportation and storage.

This document, together with other parts of GB/T 18998, applies to industrial chlorinated polyvinyl chloride piping systems, including pressurized water supply and drainage

It is widely used in water treatment, petroleum, chemical industry, electric power, electronics, metallurgy, mining, shipbuilding, electroplating, papermaking, food, medicine and other fields of fluid transportation pipelines.

system.

Note 1.It is the responsibility of the purchaser to select this product appropriately according

to the application needs of transporting flammable media and in combination with the relevant regulations, standards or specifications for fire and explosion protection.

Note 2. It is the responsibility of the purchaser to select the appropriate selection according to the application needs of transporting drinking water, food, and medicine, and in combination with the requirements of relevant laws, standards or specifications such as hygienic performance.

This product.

Note 3. The purchaser is responsible for the chemical resistance grades in Appendix B of GB/T 18998.1-2022 according to the application needs of transporting chemical media.
product.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 1033.1 Determination of Density of Plastic Non-foamed Plastics Part 1. Impregnation, Pycnometer and Titration

GB/T 2828.1 Counting Sampling Inspection Procedure Part 1. Lot-by-Lot Inspection Sampling Plan Retrieved by Acceptance Quality Limit (AQL)

GB/T 2918 Standard Environment for Conditioning and Testing of Plastic Specimens

GB/T 6111-2018 Determination of internal pressure resistance of thermoplastic piping systems for fluid transportation

GB/T 7139 Determination of chlorine content in plastic vinyl chloride homopolymers and copolymers

GB/T 7306 (all parts) 55° sealing pipe thread

GB/T 8802 Determination of Vicat softening temperature of thermoplastic pipes and fittings

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

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

GB/T 8806 Measurement of the dimensions of plastic parts of plastic piping systems