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

GB/T 28799.5-2020

**Heat-resistant polyethylene (PE-RT) piping system for hot and
cold water - Part 5: System suitability**

Issued on: November 19, 2020

Implemented on: June 1, 2021

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

GB/T 28799 "Heat-resistant Polyethylene (PE-RT) Piping System for Hot and Cold Water" is divided into the following parts.

---Part 1.General Provisions;

---Part 2.Pipes;

---Part 3.Pipe fittings;

---Part 5.System applicability.

This part is Part 5 of GB/T 28799.

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

This part adopts the redrafting method to refer to ISO 22391-5:2009 "Heat-resistant polyethylene for plastic piping systems for cold and hot water (PE-RT)

Part 5.System Applicability", the degree of consistency with ISO 22391-5:2009 is not equivalent.

1 Scope

This part of GB/T 28799 specifies the terms, definitions, symbols, and symbols for the applicability of heat-resistant polyethylene (PE-RT) piping systems for hot and cold water.

Abbreviations, requirements and test methods.

This part, together with other parts of GB/T 28799, is applicable to cold and hot water piping systems, including cold and hot water and drinking water for civil and industrial buildings.

Water and heating pipeline system, hot spring pipeline system and central heating secondary pipeline network system, etc.

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 article

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

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 15820 Polyethylene pressure pipe and pipe fitting connection pullout test (GB/T 15820-1995, eqvISO 3501.

1976)

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

GB/T 19806 Extrusion peel test of polyethylene electrofusion components for plastic pipes and fittings (GB/T 19806-2005, ISO 13955.

1997, IDT)

GB/T 19808 Tensile peel test of polyethylene electrofusion components with nominal outer diameter of plastic pipes and fittings greater than or equal to 90mm

(GB/T 19808-2005, ISO 13954.1997, IDT)

GB/T 19810 Polyethylene (PE) pipes and fittings hot-melt butt joint tensile strength and failure mode determination (GB/T 19810-

2005, ISO 13953.2001, IDT)

GB/T 19993 Thermoplastic piping system for hot and cold water pipes and fittings assembly system thermal cycle test method (GB/T 19993-

2005, EN12293.1999, IDT)

GB/T 28799.1-2020 Heat-resistant polyethylene (PE-RT) piping system for hot and cold water Part 1.General rules (ISO 22391-1.

2009, NEQ)

ISO 3503 Plastic piping system Pressure piping mechanical connection joints test method for tightness withstand internal pressure when bending

ISO 13056 Plastic piping system cold and hot water pressure system vacuum tightness test method

ISO 19892 Thermoplastic pipes and fittings joint pressure cycle test method for cold and hot water in plastic piping system

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