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

GB/T 28494-2012

Globe valves of thermoplastics materials

热塑性塑料截止阀

(English Translation)

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Foreword

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

This revised standard adopts the International Standard ISO 21787:2006 "Industrial valves - Thermoplastics shut-off valve." this standard and ISO 21787. compared to 2006, mainly technical changes are as follows.

- Revised ISO 21787:2006 The scope and content formatting;
- Normative documents related to the use of domestic alternative to similar standards and increase or decrease;
- Increased life with hot and cold water, drinking water and heating system uses, and increased requirements;
- Increasing the nominal size DN32;
- Canceled pressure level (Class);
- In the "terms and definitions" added symbols;
- The "Material" a separate chapter, as Chapter 4;
- The ISO 21787:2006 requirements in Chapter 4 to two chapters. general requirements of Chapter 5 and Chapter 6 of the technical requirements;
- Increased torque requirements;
- Fatigue strength cycles promoted by the 5000 10,000;
- Increasing system testing;
- The original Chapter 5 inspection program changes to Chapter 7 of the test methods and inspection rules in Chapter 8;
- Canceled Chapter 6 of compliance;

--- The ISO 21787:2006 in Chapter 7 and Chapter 8 merged into Chapter 9 "logo, packaging, transportation and storage";

--- Remove the original appendix ISO 21787, an increase of manual force, torque Thermoplastics valves - Test methods allow, Thermoplastics valves - Fatigue strength test method Appendix.

The Standard Appendix A, Appendix B, Appendix C are normative appendix.

The standard proposed by China National Light Industry Council.

This standard by the National Plastics Standardization Technical Committee of plastic pipe, fittings and valves at the Technical Committee (SAC/TC48/SC3) Centralized.

This standard was drafted. Shanghai Sanshan letter State Science and Technology Co., Ltd., Shanghai White Butterfly Pipe Technology Co., Ltd., Foshan City, HSBC Enterprise Ltd., Guangdong Liansu Technology Industrial Co., Ltd. Chengdu Siwei plastic valves.

1 Scope

This standard specifies the definitions and symbols thermoplastics shut-off valve (hereinafter referred to as the cut-off valve), materials, general requirements, technical requirements, test Methods, inspection rules, marking, packaging, transportation and storage.

This standard applies to residential hot and cold water systems, drinking water systems, heating and piping systems considering material chemical resistance and heat resistance conditions by conveying industrial water and other non-aqueous medium in the pipe system manual or powered off valve.

Nominal size range is DN10, DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125 and DN150. Nominal pressure ranges PN0.6, PN1.0, PN1.6.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2828.1-2003 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch test sample Programme (ISO 2859-1:1999, IDT) GB/T 4217-2008 and the nominal outer diameter of said fluid delivery Thermoplastics pipes well Part 1 GB/T 7306.1-2000 55 ° sealing pipe thread. inner cylindrical thread and taper external thread Part 2 GB/T 7306.2-2000 55 ° sealing pipe thread. inner Taper internal and external threads GB/T 8806-2008 Plastics piping systems - Plastics components - Determination of dimensions (ISO 3126:2005, IDT) GB 12222-2005 multi-turn valve actuator connecting

means GB/T 17219-1998 drinking water distribution equipment and protective materials safety evaluation of GB/T 19993-2005 and cold water piping systems thermoplastic pipe fittings combined system thermal cycling test method (EN12293:1999, IDT) GB/T 21300-2007 plastic pipes and fittings - Determination of opacity (ISO 7686:2005, IDT) GB/T 27726-2011 Thermoplastics valves - Pressure test methods and requirements ISO 10931:2005 Plastics piping systems for industrial specification polyvinylidene fluoride (PVDF), components and systems ISO 15493:2003 Industrial Plastics piping systems for ABS, PVC-U and PVC-C composition and the system - Metric series ISO 15494:2003 Plastics piping systems for industrial PB, PE and PP composition and the system - Metric series EN1267:1999 valve water as test medium, test valve flow resistance

3.1 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1

Nominal size DN in nominal pipe size of system components. Dimensionless value DN and back, with the connection of the outer diameter or vias (in millimeters) Indirectly related.