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

GB/T 18689-2009

Replacing GB/T 18689-2002

**Agricultural irrigation equipment -- Manually operated small
plastics valves**

农业灌溉设备 小型手动塑料阀

(English Translation)

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Foreword

This revised standard adopts the International Standard ISO 9911:2006 "Agricultural irrigation equipment - Manually operated small plastics valves" (in English).

This standard is based on ISO 9911:2006 redrafted.

The international standard ISO 9911:2006 technical differences are.

--- Cited international standards of our standards, but our standard is not equivalent to international standards.

For ease of use, this standard also ISO 9911:2006 made the following editorial changes.

--- "This International Standard" by "this standard";

--- With a decimal point instead of a comma as the decimal point, ",";

--- Remove ISO 9911:2006 Foreword;

--- Delete the data in English units.

This standard is GB/T 18689-2002 amendments, mainly technical changes as follows.

--- Expanding the scope of the standard;

--- Clear the sample size and pressure resistance qualified type test valve and determine the number of material;

--- Information about the material requirements to strengthen the polyamide (NP) valve;

--- Refine the requirements and test methods for the valve seal.

Since the implementation of this standard replaces GB/T 18689-2002.

Appendix A of this standard is a normative appendix.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee (SAC/TC201) Agricultural machinery centralized.

This standard was drafted. Chinese Academy of Agricultural Mechanization Sciences, Technology Research Center of Fluid Machinery Engineering, Jiangsu University, national farm machinery Quality Supervision and Inspection Center.

1 Scope

This standard specifies the technical requirements and test methods Manually operated small plastics valves used in agricultural irrigation systems.

This standard applies to nominal size 8mm ~ 100mm manual plastic valves. The valve is suitable for installation in the irrigation water temperature not exceeding 60 °C Pipeline, nominal pressure valve is determined by the manufacturer.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2828.1-2003 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch test sample Program (ISO 2859-1:1999, IDT) GB/T 3512 vulcanized rubber or thermoplastic rubber hot air and heat accelerated aging test (GB/T 3512-2001, eqvISO 188.1998) GB/T 6031-1998 Determination of vulcanized rubber or thermoplastic rubber hardness (10 ~ 100IRHD) (idtISO 48.1994) GB/T 6111 fluid conveyance pressure test method (GB/T 6111-2003 in the thermoplastic pipe, ISO 1167:1996, IDT) GB/T 7306.1 55 ° sealing pipe thread - Part 1. the inner cylindrical thread and taper external thread (GB/T 7306.1-2000, eqv ISO 7-1:1994) Part 2 GB/T 7306.2 55 ° sealing pipe thread. inner Taper internal and external threads (GB/T 7306.2-2000, eqv ISO 7-1:1994) GB/T 7759 vulcanized rubber, thermoplastic rubber at room temperature, high and low temperature compression set was measured (GB/T 7759-1996, eqvISO 815.1991) GB/T 12221 metal valve structure length (GB/T 12221-2005, ISO 5752. 1982, Metalvalvesforusein flangedpipesystems-Face-to-faceandcenter-to-facedimensions, MOD) GB/T 18688 Test method for pressure loss of agricultural irrigation equipment irrigation valves (GB/T 18688-2002, idtISO 9644.

1993)

GB/T 20201 irrigation polyethylene (PE) pressure pipes mechanically connecting pipe (GB/T 20201-2006, ISO 9625:1993, NEQ) ISO 7349. 1983 Thermoplastic Valve connection parameters ISO 7508. 1985 unplasticized polyvinyl chloride (PVC-U) basic dimensions metric series valve for pressure pipelines ISO 8233. 1988 Thermoplastics valves Torque Test Method ISO 8242. 1989 for pressure pipes of polypropylene (PP) valve basic

dimensions metric series ISO 8659. 1989 Thermoplastic valves fatigue strength test method
ISO 9393-1:2004 Thermoplastics valves Pressure test methods and requirements - Part 1.
General

3 Terms and Definitions

The following terms and definitions apply to this standard.