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

GB/T 47573.2-2026

**Agricultural irrigation equipment - Guideline on the
implementation of pressurized irrigation systems - Part 2: Drip
irrigation**

农业灌溉设备 承压灌溉系统实施指南 第2部分：滴灌

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 2 of GB/T 47573 "Implementation Guidelines for Pressurized Irrigation Systems in Agricultural Irrigation Equipment". GB/T 47573 has been...

The following sections were published.

---Part 1: General Rules of Irrigation;

---Part 2: Drip Irrigation.

This document is equivalent to ISO 24120-2:2023 "Agricultural irrigation equipment - Guidelines for the implementation of pressurized irrigation systems - Part 2: Drip irrigation".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Agricultural Machinery (SAC/TC201).

Introduction

GB/T 47573, "Implementation Guidelines for Pressurized Irrigation Systems in Agricultural Irrigation Equipment," outlines commonly used pressurized irrigation systems (drip irrigation) for farmland irrigation.

The implementation of irrigation (sprinkler irrigation) involves water and soil relations, water sources, irrigation regimes, and the design of sprinkler and drip irrigation systems, providing a basis for farmland irrigation.

The implementation of the pressure irrigation system is provided with guidance and is proposed to consist of three parts.

---Part 1: General Principles of Irrigation. The purpose is to provide general principles for the implementation of pressurized irrigation systems in farmland irrigation.

---Part 2: Drip Irrigation. The purpose is to provide guidelines for implementing drip irrigation systems in farmland irrigation.

---Part 3: Sprinkler Irrigation. The purpose is to provide guidelines for implementing sprinkler irrigation systems in farmland irrigation.

Implementation Guidelines for Pressurized Irrigation Systems in Agricultural Irrigation Part 2: Drip Irrigation

1 Scope

This document provides implementation guidelines for pressurized drip irrigation systems.

This document applies to small-scale family farming and large-scale commercial agriculture in open fields or enclosed planting facilities (such as greenhouses or multi-span greenhouses).

This document is intended for use by agricultural departments, agronomists, irrigation planners, farmers, and consumers.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

Anti-siphondripper; anti-siphonemitter the dripper (3.3) has an internal mechanism that prevents dirt from being sucked in from outside the drip tube.

Chemical irrigation

Chemicals are applied through the irrigation system.

Emitter; Dripper

A device installed on an irrigation capillary tube to dispense water in a drip or continuous flow form, with a flow rate not exceeding 24 L/h (except during flushing).

[Source. GB/T 17187-2009, 3.1] 3.4 Fertigation Soluble fertilizer is injected into the irrigation system along with the irrigation water.

On-line emitter; on-line dripper A dripper installed directly or indirectly (e.g., by means of a conduit) on the wall of an irrigation capillary.

[Source. GB/T 17187-2009, 3.3, with modifications] 3.6 Regulated Emitter Drip irrigation pipe Pressure-compensated drippers/drip irrigation tubing.

A dripper/drip irrigation tube whose flow rate remains relatively constant when the inlet pressure varies within the range specified by the manufacturer.

[Source. GB/T 17187-2009, 3.7]