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

GB/T 23149-2008

Technical requirements of tractor for washing machines

洗衣机牵引器技术要求

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Table of Contents

- 1 Scope
- 2 Terms and definitions
- 3 Product classification
 - 3.1 Type
 - 3.2 Specification
 - 3.3 Model designation
- 4 Technical requirements
- 5 Test methods

Foreword

GB/T 23149-2008 was issued on 30 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine and the Standardization Administration of the People's Republic of China, and has been in force since 1 September 2009.

The document is a recommended national standard: the /T in the designation marks it as recommended rather than compulsory.

1 Scope

China's national standard for the tractor of a washing machine - the small linear actuator, motor-driven or solenoid-driven, that pulls the drain valve open and engages or releases the clutch. It is one of the cheapest parts in the machine and one of the most consequential: it operates on every cycle for the life of the appliance, it has to hold its stroke against the water pressure and the spring while the drum spins, and when it fails the machine either will not drain or will not spin, which is what the owner experiences as the machine breaking down. Because it is bought in by the appliance maker rather than made in-house, its performance has to be specifiable on paper - hence a standard that fixes the vocabulary of stroke, tractive force and stroke time, a classification and a model designation, and the technical requirements and test methods that go with them. It specifies the terms and definitions, the product classification, the technical requirements and the test methods for washing machine tractors, and applies to the traction devices that drive parts such as the drain valve and the clutch in a linear motion in household and similar electric washing machines, with a single-phase AC rated voltage not exceeding 250 V.

This standard specifies the terms and definitions, the product classification, the technical requirements and the test methods for washing machine tractors, referred to below as

tractors.

This standard applies to the traction devices that drive parts such as the drain valve and the clutch in a linear motion in household and similar electric washing machines, with a single-phase alternating current rated voltage not exceeding 250 V.

2 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

2.1 tractor of washing machine - the driving device that makes a part of a washing machine move in a straight line.

2.2 space of traction - the linear distance moved by the tractor in one traction action when the tractor drives the drain valve.

2.3 tractive force - the force with which the tractor is able to pull a load.

2.4 tractive time - the time needed by the tractor to complete the movement of the stroke.

3.1 Type

3.1.1 Classified by the method of traction: a) motor-type tractor, denoted by the pinyin letter J; b) electromagnetic-type tractor, denoted by the pinyin letter C.

3.1.2 Classified by the stroke arrangement: a) single-stroke tractor, denoted by the pinyin letter D; b) multi-stroke tractor, denoted by the pinyin letter S.

3.2 Specification

The specification of a tractor is expressed in the model designation by its rated tractive force, in newtons.