

ICS 47.020.20

CCS U 48



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

GB/T 14654-2025

Replacing GB/T 14654-2008

Elastic damping leaf damper

弹性阻尼簧片减振器

Issued on: June 30, 2025

Implemented on: January 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB/T 14654-2008 "Elastic Damping Spring Vibration Absorber". Compared with GB/T 14654-2008, except for the structural adjustment Besides the editorial changes, the main technical changes are as follows:

- a) The scope of application of this document has been changed (see Chapter 1, Chapter 1 of the.2008 edition);
- b) Added the structural diagram of type B shock absorber (see 5.1.2);
- c) The basic parameter table has been modified (see 5.2.1, 4.3.1 of the.2008 edition);
- d) The main dimensions, moment of inertia and weight requirements have been changed (see 5.3, 4.4 of the.2008 edition);
- e) Deleted the permissible ambient temperature (4.5 of the.2008 edition);
- f) The dimensional tolerance requirements have been changed (see 6.2.2, 5.3.2 of the.2008 edition);
- g) Added weight requirements (see 6.3);
- h) Deleted the lubricating oil and oil pressure requirements (see

1 Scope

GB/T 14654-2025 is the Chinese national standard on elastic damping leaf damper, in the

field of shipbuilding and marine structures. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 June 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 January 2026. Classification: ICS 47.020.20, CCS U 48. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document provides the classification and marking, structure and parameters of elastic damping spring vibration absorber (hereinafter referred to as "vibration absorber"), and specifies the vibration absorber. The technical requirements, inspection rules, marking, packaging, transportation and storage are described, and the corresponding test methods are described. This document is applicable to shock absorbers used in reciprocating piston internal combustion engines and their power units with an allowable ambient temperature of -40°C~120°C design, manufacture and acceptance.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 191 Pictorial markings for packaging, storage and transportation

GB/T 3077-2015 Alloy Structural Steel

GB/T 3098.1-2010 Mechanical properties of fasteners - Bolts, screws and studs

GB/T 9239.1-2006 Mechanical vibration steady-state (rigid) rotor balance quality requirements Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Te The allowable value of the alternating torque that the shock absorber spring group can withstand.

4 Classification and labeling

4.1 Classification Shock absorbers can be divided into the following two types according to their application models.

- a) Type A, suitable for four-stroke internal combustion engines;
- b) Type B, suitable for two-stroke internal combustion engines.

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