

ICS 27.020, 43.060.40
CCS J 94



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

GB/T 10826-1989

Replacing GB/T 10826.1-2007

**Fuel injection equipment - Vocabulary - Part 1: Fuel injection
pump**

(English Translation)

Issued on: October 31, 2025

Implemented on: February 1, 2026

Issued by: State Administration for Market Regulation

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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 1 of GB/T 10826 "Glossary of Fuel Injection Devices". GB/T 10826 has already published the following parts.

---Part 1: Fuel Injection Pump;

---Part 2: Injectors;

---Part 3: Pump Nozzle;

---Part 4: High-Pressure Oil Pipes and Pipe End Fittings;

---Part 5: Common Rail Fuel Injection System.

This document replaces GB/T 10826.1-2007 "Fuel Injection Device Vocabulary Part 1:

Injection Pumps", and is consistent with GB/T 10826.1-Compared to 2007, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope of application has been expanded (see Chapter 1);
- b) The definition of the fuel injection pump has been changed (see 3.1, 2007 version 3.1);
- c) Added terms and definitions for remanufactured fuel injection pumps (see 3.2);
- d) Added terminology and definitions for constant stroke fuel injection pumps (see 4.4);
- e) Added terminology and definitions for variable stroke fuel injection pumps (see 4.5);
- f) The definition of a mechanical fuel injection pump has been changed (see 5.1, 2007 edition of 5.1);
- g) The definition of electronically controlled fuel injection pumps has been changed (see 5.2, 2007 version 5.2);
- h) The definition of a hydraulic fuel injection pump has been changed (see 5.3, 2007 edition of 5.3);
- i) The definition of a reciprocating fuel injection pump has been changed (see 6.1, 2007 edition of 6.1);
- j) The definition of a camshaft-type fuel injection pump has been changed (see 6.4, 2007 edition of 6.4);
- k) Added terms and definitions for synthetic fuel injection pumps (see 6.5);
- l) Added terms and definitions for in-line fuel injection pumps (see 6.6);
- m) The definition of inline fuel injection pumps has been changed (see 7.2, 2007 version 7.2);
- n) The definition of the V-type fuel injection pump has been changed (see 7.4, 2007 edition of 7.4);
- o) The definition of a rotary fuel injection pump has been changed (see 7.5, 2007 edition of 7.5);
- p) Added terminology and definitions for electrically controlled unit pumps (see 7.6);
- q) Added terms and definitions for combined electronically controlled unit pump assemblies (see 7.7);
- r) The definition of the distributor injection pump has been changed (see 8.2, 2007 version 8.2);
- s) Added terms and definitions for composite inline fuel injection pumps (see 8.3);
- t) The definition of the flat-bottom bracket type fuel injection pump has been changed (see

9.1, 2007 version 9.1);

u) The definition of the face flange mounted fuel injection pump has been changed (see 9.5, 2007 edition of 9.5);

v) The definition of the arc-shaped bottom-mounted fuel injection pump has been changed (see 9.6, 2007 version 9.6);

w) The definition of the plunger assembly has been changed (see 11.2, 2007 edition);

x) Added terminology and definitions for oil transfer pumps (see 12.1);

y) Added terminology and definitions for piston-type oil transfer pumps (see 12.2);

z) Added terms and definitions for gear-type oil transfer pumps (see 12.3);

aa) Added terms and definitions for vane-type oil pumps (see 12.4);

bb) added terms and definitions for the fuel injection pump test bench (see 12.9).

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 Fuel Injection Systems (SAC/TC396).

Introduction

Terminology is a collection of names used to represent concepts in a specific discipline. It is one of the basic elements of a standard and is essential for scientific research, teaching, and technology.

The key to unifying concepts in technical exchanges and cooperation is GB/T 10826, which is based on the current situation of my country's fuel injection system industry and references international standards.

This is a complete set of industry terminology standards for fuel injection systems, compiled in accordance with international advanced standards. Fuel injection systems are a component of internal combustion engines (gasoline engines).

The fuel injection system is a core subsystem in diesel engines used for precise fuel supply control. It has a wide scope and numerous products. Depending on the type of fuel injection system, GB/T 10826 is divided into the following 5 parts.

---Part 1: Fuel Injection Pumps. The purpose is to define the terminology and definitions of fuel injection pumps in fuel injection systems.

---Part 2: Injectors. The purpose is to define the terminology and definitions of injectors in

fuel injection systems.

---Part 3: Pump Nozzles. The purpose is to define the terminology and definitions of pump nozzles in fuel injection systems.

---Part 4: High-Pressure Fuel Lines and End Connections. The purpose is to define the technical specifications of high-pressure fuel lines and end connections in fuel injection systems.

Language and definition.

---Part 5: Common Rail Fuel Injection Systems. The purpose is to define the terminology and definitions for fuel injection pumps in common rail fuel injection systems.

This document supplements GB/T 1883 (all parts) to facilitate technical exchange on fuel injection pumps and computer management of maintenance parts.

Provides general vocabulary.

Fuel Injection Glossary Part 1: Fuel Injection Pump

1 Scope

This document defines the terminology and definitions for fuel injection pumps in fuel injection systems.

This document applies to the research, design, manufacture, and use of fuel injection pumps for compression ignition engines (diesel engines).

2 Normative references

This document has no normative references.

3 General Terms

fuel injection pump

A device that pressurizes fuel and supplies it to the combustion chamber at regular intervals and in measured quantities through one or more high-pressure fuel lines and injectors.

Using old fuel injection pumps as remanufacturing blanks, the technical performance, reliability, and service life are improved through professional repair or upgrade.

The quality characteristics of the fuel injection pump are no less than those of the prototype new product (3.1).