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

GB/T 17804-2009

Replacing GB/T 17804-2003

**Reciprocating internal combustion engines -- Graphical
symbols**

往复式内燃机 图形符号

(English Translation)

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Foreword

This revised standard adopts ISO 8999:2001 "Reciprocating internal combustion engine graphic symbols" (in English).

This standard and ISO 8999:2001 as compared to the presence of the following major differences.

--- Deleted international standards foreword;

--- To ISO 8999:2001 and other international standards referenced in our country who have been adopted as a standard by our standards instead of the corresponding International standards; our country has not been adopted as a standard, still refer directly to international standards.

This standard is GB/T 17804-2003 "reciprocating internal combustion engine graphic symbol" amendments.

Compared with GB/T 17804-2003, the main modifications are as follows.

--- The text of the appropriate editorial changes;

--- Modify some symbolic names.

The date of promulgation of this standard instead of GB/T 17804-2003.

The standard proposed by China Machinery Industry Federation.

The standard internal combustion engine by the National Standardization Technical Committee (SAC/TC177) centralized.

This standard was drafted. Shanghai Internal Combustion Engine Research Institute.

1 Scope

This standard specifies the reciprocating internal combustion engine in the operation control machinery, measuring instruments, signaling devices and instructions for use of

graphical symbols used no, in order to provide the necessary information on the use and operation.

This standard applies to land use, marine and railway traction reciprocating internal combustion engine, with the exception of road vehicles and aviation internal combustion engine.

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 2893 Safety colors (GB 2893-2008, ISO 3864-1:2002, MOD) GB 2894 Safety Signs and use guidelines GB/T 4025-2003 people - basic safety rules and operation of the indicator and machine interface, marking and identification coding rules (IEC 60073:1996, IDT) IEC 80416-1:2008 Basic principles for graphical symbols for equipment - Part 1. Graphical symbols generated IEC 80416-3:2002 Graphical symbols for the basic rules of equipment - Part 3. Guide to the use of graphical symbols

3 Terms and Definitions

The following terms and definitions apply to this standard.

Alone or in combination to use graphical symbols.

Symbol elements from a variety of graphical symbols composition.

4 Use graphic symbols

4.1

Graphical symbols shall be as Chapter 5 - Chapter 7 below. In general, graphic symbols are contour lines. When you need to reduce the size, the for clarity, the area can be a symbol or symbols feature contour surrounded by painted.

4.2

Chapter 5 of the basic symbol graphic symbols can be used as a general purpose, it can also be used to form a composite graphic symbols.

4.3

Chapters 6 and 7 of the composite graphic symbols are used in Chapter 5 of the basic graphic symbols evolved as elements that can be used to provide various Species series graphic symbols and functions and associated systems.

4.4

recomposed other complex symbol can also be used as required in Chapter 5 of the basic graphic symbols, can be maintained as long as the IEC 80416-1:2008 the features can be specified.

4.5

by inherent limitations when copying and display technology, the need to increase the line width or graphic symbols for other minor modifications, as long as Paul the basic elements of graphic symbols hold unchanged, and easy for the operator identified, such modifications can be carried out.

4.6

In addition, in order to improve the appearance and visual graphic symbols, or with the use of this graphic symbol for device coordination models may need to change