Reciprocating internal combustion engines — Graphical symbols

1 Scope

This International Standard specifies graphical symbols for operator controls, gauges, tell-tale indicators and instructions for reciprocating internal combustion (RIC) engines to provide necessary information on their use and operation.

It is applicable to RIC engines for land, rail traction and marine use, excluding engines used to propel road vehicles and aircraft.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions Indicated were valid. All standards are subject to revision, and parties to agreements based on this international Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3461-1:1988, General principles for the creation of graphical symbols — Part 1: Graphical symbols for use on equipment.

ISO 3864:1984, Safety colours and safety signs.

IEC 73:1991, Coding of indicating devices and actuators by colours and supplementary means.

3 Definitions

For the purposes of this International Standard, the following definitions apply:

3.1 basic graphical symbol: Symbol used individually or in combination to make a composite symbol.

3.2 composite symbol: Symbol made from combinations of symbol elements.

4 General

4.1 Symbols shall be as shown in clauses 5 to 7 of this International Standard. In general, symbols are shown in outline form. Where necessary for legibility when reduced to a small size, enclosed areas within symbols or symbol elements may be fitted in.

4.2 The symbols included in clause 5 are basic symbols which may be used for general application as well as to create composite symbols.

4.3 The composite symbols included in clauses 8 and 7 are developed using basic symbols from clause 5 as elements where applicable to provide tamilies of symbols associated with functions and systems.

4.4 As required, additional composite symbols may be developed using the basic symbols from clause 5, provided that the characteristics specified in ISO 3481-1 are maintained.

4.5 Limitations inherent in some reproduction and display technologies may require increased line thickness or other minor modifications of symbols. Such modifications are acceptable provided the symbol remains unchanged in its basic graphical elements, and easily discernible by the operator.

Iso 8999 Reciprocating Internal Combustion Engines

International Organization for Standardization

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Handbook of Diesel Engines Klaus Mollenhauer, Helmut Tschöke, 2010-06-22 This machine is destined to completely revolutionize cylinder diesel engine up through large low speed t engine engineering and replace everything that exists stroke diesel engines An appendix lists the most From Rudolf Diesel's letter of October 2 1892 to the important standards and regulations for diesel engines publisher Julius Springer Further development of diesel engines as economiz Although Diesel's stated goal has never been fully ing clean powerful and convenient drives for road and achievable of course the diesel engine indeed revolu nonroad use has proceeded quite dynamically in the tionized drive systems This handbook documents the last twenty years in particular In light of limited oil current state of diesel engine engineering and technol reserves and the discussion of predicted climate ogy The impetus to publish a Handbook of Diesel change development work continues to concentrate Engines grew out of ruminations on Rudolf Diesel's on reducing fuel consumption and utilizing alternative transformation of his idea for a rational heat engine fuels while keeping exhaust as clean as possible as well into reality more than 100 years ago Once the patent as further increasing diesel engine power density and was filed in 1892 and work on his engine commenced enhancing operating performance ISO Catalogue International Organization for **Catalogue** International Organization for Standardization, 2008 Standardization, 2006 **Handbuch Dieselmotoren** Klaus Mollenhauer, 2013-07-02 Das Handbuch der Dieselmotoren beschreibt umfassend Arbeitsverfahren Konstruktion und Betrieb aller Dieselmotoren Typen Es behandelt systematisch alle Aspekte der Dieselmotoren Technik von den thermodynamischen Grundlagen bis zur Wartung Schwerpunkt bei den Beispielen ausgef hrter Motoren sind die mittel und schnellaufenden sowie Hochleistungs Triebwerke Aber auch alle brigen Bau und Einsatzformen werden behandelt Damit ist das Buch ein unverzichtbares praxisbezogenes Nachschlagewerk fr Motorenkonstrukteure Anlageningenieure und alle Benutzer dieser g ngigen mechanischen Kraftquelle Fachleute aus der Industrie von BMW MAN B W Diesel AG DEUTZMOTOR Mercedes Benz AG Volkswagen AG u a gro en Firmen geh ren zu den Autoren sie beschreiben in diesem Handbuch den Stand der Technik und er ffnen Perspektiven auf neue Entwicklungen In der zweiten Auflage wurden neue Entwicklungen aufgenommen Das Buch ist auch heute noch aktuell Handbuch Dieselmotoren Helmut Tschöke, Klaus Mollenhauer, Rudolf Maier, 2017-11-03 Die 4 Auflage dieses ma geblichen Nachschlagewerkes informiert umfassend ber den aktuellen Stand und die neuesten Entwicklungen der inzwischen 120 Jahre alten Dieseltechnologie Mehr als 90 Experten aus Industrie und Wissenschaft zeigen zentrale sowie zukunftsweisende Innovationen zur Verbesserung der CO2 und Schadstoffemissionen des Betriebsverhaltens der Kosten der Zuverl ssigkeit und Robustheit des Dieselantriebs Aktuelle Entwicklungen ber cksichtigt das Werk mit Erweiterungen um Inhalte zu alternativen Kraftstoffen insbesondere zu Gasanwendungen sowie zur Einbindung des Dieselmotors in hybride Antriebskonzepte fr Pkw und Nutzfahrzeuge Nach wie vor steht im Fokus der Entwicklungsanstrengungen den Dieselmotor hinsichtlich seiner NOx und Partikelemissionen zu

verbessern um auch k nftigen gesetzlichen Grenzwerten zu entsprechen Das Buch befasst sich mit der Theorie der Konstruktion und der Anwendung des Dieselmotors fralle m glichen Einsatzarten vom Antrieb fr Pkw ber SUVs und Pick ups bis hin zu den schwersten Nutzfahrzeugen und Lokomotiven fr station re und mobile Arbeitsmaschinen sowie fr nahezu **Reciprocating Internal Combustion Engines** International Organization for Standardization, 2006 Reciprocating Internal Combustion Engines - Performance - Part 4 International Organization for Standardization, 2009 **BSI Standards Catalogue** ,1997 Products and Services Catalogue, 2001 **Standards Catalogue** ,1998 **Annual Book of ASTM Standards** American Society for Testing and Materials, 2007 ISO 3046-3: Reciprocating **Annual Book of ASTM** internal combustion engines-performance-part 3: Test measurements ISO.,1989 **Standards** ASTM International, American Society for Testing and Materials, 2001 Reciprocating Internal Combustion Engines International Organization for Standardization, 2002 **Reciprocating Internal Combustion Engines** International Organization for Standardization (ISO) (Geneve).,2007 Reciprocating Internal Combustion Engines. Performance. Declarations of Power, Fuel and Lubricating Oil Consumptions, and Test Methods. Additional Requirements for Engines for General Use British Standards Institute Staff, International Organization for Standardization, British Standards Institution, 2002-06-18 Reciprocating engines Internal combustion engines Performance Power mechanics Fuel consumption Lubricating oils Railway vehicles Marine engines Earth moving equipment Industrial trucks Reciprocating Internal Reciprocating Internal Combustion Engines - Performance - Part 5 ISO (International Combustion Engines ,1994 **Reciprocating Internal Combustion Engines** Organization for Standardization),2001 **ISO 3046-1** .2002 International Organization for Standardization, 1989

Unveiling the Magic of Words: A Review of "Iso 8999 Reciprocating Internal Combustion Engines"

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