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STANDARD

9669

First edition
1990-10-15

**Series 1 freight containers — Interface
connections for tank containers**

*Conteneurs de la série 1 — Interfaces des équipements pour
conteneurs-citernes*



Reference number
ISO 9669:1990(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9669 was prepared by Technical Committee ISO/TC 104, *Freight containers*.

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Introduction

This International Standard aims to reduce problems in the operation of tank containers caused by a multiplicity of different interface connections. The combined efforts of the manufacturing and operational sectors of the industry have been devoted to establishing a certain degree of international standardization, while recognizing the requirements of the various national standards applicable in areas where tank containers are operated.

It also aims to ensure that tank containers fitted with flanged interface connections are compatible with the flanges specified by the national standards used in the countries in which the container may travel. Such compatibility will improve safety in operation by limiting the variety of connections with which the authorities and their emergency services have to deal.

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Series 1 freight containers — Interface connections for tank containers

Section 1: General

1.1 Scope

This International Standard specifies the characteristics of interface connections for tank containers complying with ISO 1496-3.

Section 1 gives the definitions and the testing and welding requirements for interface connections.

Section 2 gives a range of flange connections for tank containers, type codes 70 to 77 and 85 to 88.

Section 3¹⁾ specifies the dimensions and characteristics of man-hole openings and man-hole lids for tank containers intended to contain liquids or pressurized dry bulk, with a test pressure not exceeding 600 kPa for containers of type codes 70 to 76 and 85 to 88.

Section 4¹⁾ specifies the requirements for the interface connection screw threads.

1.2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was 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 edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

1) Will be published later as an amendment to this International Standard.

2) To be published. (Revision of ISO 1496-3:1981)

3) 300 kPa = 3 bar (the bar is currently used as a unit of pressure in relevant international codes, often implemented by national legislation).

ISO 1496-3:—²⁾, *Series 1 freight containers — Specification and testing — Part 3: Tank containers for liquids, gases and pressurized dry bulk.*

1.3 Definitions

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

1.3.1 tank container: A freight container which includes two basic elements, the tank or tanks and the framework, and complies with the requirements of ISO 1496-3.

1.3.2 gas: A fluid substance having a vapour pressure greater than an absolute pressure of 300 kPa³⁾ at 50 °C or as otherwise defined by the competent authority (see 1.3.6).

1.3.3 liquid: A fluid substance having a vapour pressure not greater than an absolute pressure of 300 kPa³⁾ at 50 °C.

1.3.4 dry bulk: Assemblies of separate solid particles normally substantially in contact with one another which are or may be rendered capable of fluid flow.

1.3.5 dangerous goods: Those substances classified as dangerous by the United Nations Committee of experts on the transport of dangerous goods or by the competent authority (see 1.3.6).

1.3.6 competent authority: The authority or authorities designated as such in each country or in each