INTERNATIONAL STANDARD

ISO 8445

Second edition
1995-03-01

Pipework — Double overlap flexible metal hoses (with packing, leakproof, circular section, in protected carbon steel)

Tuyauteries — Tuyaux métalliques flexibles à agrafage double (avec joint, étanches, de section circulaire, en acier non allié protégé)

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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 8445 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Subcommittee SC 11, *Flexible interlocked and convoluted metallic hoses*.

This second edition cancels and replaces the first edition (ISO 8445:1985), of which clause 1 has been technically revised.

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Pipework — Double overlap flexible metal hoses (with packing, leakproof, circular section, in protected carbon steel)

1 Scope

This International Standard specifies the diameters of double overlap leakproof flexible metal hoses with packing, of circular section, in protected carbon steel in accordance with ISO 7657 and tested in accordance with ISO 7658. The packing should not be asbestos. Suitable materials include, for example, cotton, fibreglass, nylon, Kevlar, polyamide, polyester, etc.

This International Standard applies to flexible metal hoses, without external coating, as defined in ISO 7369:1983, 4.1.10, used under pressure, without leakage, at temperatures between −20 °C and a maximum of 230 °C. In cases where the full temperature range of the packing (230 °C) is not used, the manufacturer will state the maximum temperature limit.

NOTE 1 The specifications and temperature-related requirements for use are given in ISO 7657.

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 6708:—[1], *Pipework components — Definition and selection of DN (nominal size).*

ISO 7369:1983, *Pipework — Flexible metallic hoses — Vocabulary of general terms.*

ISO 7657:1995, *Pipework — General requirements for stripwound flexible metal hoses.*

ISO 7658:1984, *Pipework — Stripwound flexible metal hoses — Testing and verification of characteristics.*

3 Dimensions and performance

Dimensions and performance shall be as given in figure 1 and table 1.

NOTE 2 Figure 1 is not intended to specify a given manufacturing method or to define coil dimensions.

4 Test requirements

Tests shall be in accordance with ISO 7658.

5 Hydraulic pressure test

Before delivery, the hoses shall be hydrostatically tested to one and a half times the maximum permissible working pressure, as specified in ISO 7658.

1) To be published. (Revision of ISO 6708:1980)

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