INTERNATIONAL STANDARD

ISO 407

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Small medical gas cylinders — Pin-index yoke-type valve connections

Petites bouteilles à gaz médicaux — Raccords de robinets du type à étrier avec ergots de sécurité



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A 1 1	
Contents	Dogo
Contents	Page

Forew	vord	IV
1	Scope	
2	Valve Yoke	1
3	Valve	1
4	Yoke	2
5 5.1 5.2 5.3 5.4 5.5 5.6	Basic dimensions General Pin-index yoke-type valve body Single-pin yoke-type valve connection system Two-pin yoke-type valve connection system with the pins in a single row Two-pin yoke-type valve connection system with the pins in a double row Basic dimensions	
6 6.1 6.2	Requirements for alternative designs of yoke-type valve connections	6 7
7 7.1 7.2 7.3 7.4	Dimensions and positions of the holes and pins for yoke-type valve connections	9 10 20

iii

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 Maison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 407 was prepared by Technical Committee ISO/TC 58, Gas cylinders, Subcommittee SC 2, Cylinder fittings.

This third edition cancels and replaces the second edition (ISO 407:1991), which has been technically revised.

Small medical gas cylinders — Pin-index yoke-type valve connections

1 Scope

This International Standard concerns pin-index yoke-type valve connections for small medical gas cylinders, with a maximum working pressure (filling pressure at 15 °C) of 200 bar. This type of connection is typically used for small cylinders (5) or below). In some cases, it may be used for larger cylinders. In this latter case, consideration shall be given to the need for valve protection.

It specifies:

- basic dimensions;
- requirements for alternative designs of the yoke-type valve connections;
- dimensions and positions for the hole and pins for the outlet connections.

It also specifies the dimensions and positions for the holes and pins for the outlet connections for the gases and gas mixtures given in Table 1.

This International Standard applies to small medical gas cylinders used for patient care, including therapeutic, diagnostic and prophylactic applications, in hospitals and for emergency treatment.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 32:1977, Gas cylinders for medical use — Marking for identification of content

3 Valve

Each small medical gas cylinder can be fitted with a yoke valve (see Clause 5). The yoke valve shall have location holes of the dimensions and in the positions indicated in Clause 7 for the appropriate gas or gas mixture.

The name or chemical symbol of the gas or gas mixture shall be clearly and indelibly stamped on the valve.

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