
**Medical infusion bottles — Suspension
devices for multiple use — Requirements
and test methods**

*Flacons médicaux de transfusion et de perfusion — Dispositifs de
suspension à usage multiple — Exigences et méthodes d'essai*

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Published in Switzerland

Foreword

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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 15375 was prepared by Technical Committee ISO/TC 76, *Transfusion, infusion and injection equipment for medical and pharmaceutical use*.

This second edition cancels and replaces the first edition (ISO 15375:2004), Clause 2 of which has been technically revised.

Introduction

This International Standard deals with permanent suspension devices for multiple use for infusion bottles in accordance with ISO 8536-1. The intended purpose of suspension devices is to avoid dropdowns of infusion bottles during administering of blood or pharmaceutical solutions.

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1 Scope

This International Standard specifies requirements for permanent suspension devices, fixed to infusion racks or set-up devices, for infusion bottles that confirm to the requirements of ISO 8536-1. The suspension devices are intended for multiple use.

The purpose of this International Standard is to establish a safe suspension device for infusion bottles during administering of their contents.

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 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 8536-1, *Infusion equipment for medical use — Part 1: Infusion glass bottles*

3 Designation code and test weights

Permanent suspension devices that comply with the requirements of this International Standard are designated by the description block, followed by a reference to this International Standard, followed by the nominal volume as specified in Table 1.

For example, a permanent suspension device for an infusion bottle that conforms to the requirements of ISO 8536-1 of nominal capacity of 50 ml to 250 ml is designated as follows:

Suspension device ISO 15375 - M 50 - 250

Test weights used for the permanent load test (see 6.4) are also a function of the nominal capacity of the permanent suspension device and are specified in Table 1.

Table 1 — Designation code and test weights for permanent load test

Nominal capacity of the bottles ml	Test weight at 24 h kg
≤ 250	3
> 250	5

4 Material

Materials selected for the permanent suspension device shall ensure that all requirements given in Clause 5 can be met.

Certain materials can be chemically and physically damaged by disinfectants. Therefore, attention should be given to selecting materials that are more inert towards disinfectants and less sensitive to stress cracking and thermal stress.

5 Requirements

5.1 Design

5.1.1 When tested in accordance with 6.1, the multiple suspension device shall enable the installation of the bottle with a perforated transfer set.

The suspension device shall be designed in such a way that an unintentional removal from an infusion rack or set-up device is not possible.

5.1.2 The design of the suspension device shall guarantee that the bottle is in a perpendicular position with a maximum deviation of 15°.

5.1.3 When tested in accordance with 6.2, the design of the suspension device shall guarantee that the bottle does not fall off at angles of up to 45°.

5.1.4 The suspension device shall be resistant to corrosion and practically free from burrs.

5.2 Sterilization and disinfection

The manufacturer's manual shall contain information indicating how the suspension device shall be cleaned, sterilized and disinfected.

5.3 Load

5.3.1 Gravitational load

When tested in accordance with 6.3, the permanent suspension device shall not detach from the infusion bottle. It shall not be damaged by the test.

5.3.2 Permanent load

When tested in accordance with 6.4, the multiple suspension device shall prevent the infusion bottle from falling. It shall not be damaged by the test.

5.4 Life cycle

5.4.1 If the design of the permanent suspension device or materials used in its construction have a limited life cycle ≤ 5 y, the manufacturer shall define the storage conditions and the time period during which a permanent suspension device is considered to be in conformance with this International Standard.

5.4.2 In order to take different user conditions into consideration, the manufacturer shall define assessment criteria to enable the user to establish when the suspension device is no longer usable.