

INTERNATIONAL STANDARD

ISO
8669-3

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Urine collection bags —
Part 3:
Verification of rated volume

Poches de recueil d'urine —
Partie 3: Contrôle du volume spécifié



Reference number
ISO 8669-3:1990(E)

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 8669-3 was prepared by Technical Committee ISO/TC 173, *Technical systems and aids for disabled or handicapped persons*.

ISO 8669 consists of the following parts, under the general title *Urine collection bags*:

- Part 1: *Vocabulary*
- Part 2: *Determination of dimensions*
- Part 3: *Verification of rated volume*
- Part 4: *Determination of freedom from leakage*

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Urine collection bags —

Part 3:

Verification of rated volume

1 Scope

This part of ISO 8669 specifies a method of determining that a urine collection bag will contain the rated volume of fluid. The method does not apply to the accuracy of any graduations marked on the bag.

NOTE 1 The various methods of attaching body-worn bags to the body and the influence of clothing, etc. can affect the useful volume of the bag in service. When the bag is worn on the body, its capacity may be less than that determined by this method.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8669. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8669 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 8669-1:1988, *Urine collection bags — Part 1: Vocabulary*.

ISO 8669-2:1988, *Urine collection bags — Part 2: Determination of dimensions*.

3 Definitions

For the purposes of this part of ISO 8669, the definitions given in ISO 8669-1 and the following definition apply.

rated volume: maximum volume of urine that is recommended by the manufacturer as the capacity of the bag.

4 Principle

A previously measured volume of water, corresponding to the rated volume, is allowed to flow into the bag by simple gravitational flow from a reservoir.

The bag and reservoir are examined to verify that all the fluid has entered the bag.

The test is designed to minimize error caused by air being drawn into the bag during the filling operation.

5 Temperature for testing

A test temperature of $23\text{ °C} \pm 2\text{ °C}$ shall be used for testing.

6 Apparatus and fluid

6.1 Reservoir, vented to the atmosphere and capable of holding the rated volume of water, fitted with an outlet tube and a closure near its end, the reservoir being able to drain (without a bag connected) at a rate of not less than 2 l/min.

6.2 Means of connecting the outlet of the reservoir to the inlet tubing of the bag.

6.3 Graduated measuring cylinder, large enough to hold the rated volume.

6.4 Tap water at $23\text{ °C} \pm 2\text{ °C}$.

6.5 Manufacturer's recommended suspension system for non-body-worn bags.