
International Standard



385/3

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**Laboratory glassware — Burettes —
Part 3 : Burettes for which a waiting time of 30 s
is specified**

Verrerie de laboratoire — Burettes — Partie 3 : Burettes avec temps d'attente de 30 s

First edition — 1984-10-15

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[ISO 385-3:1984](https://standards.iteh.ai/catalog/standards/sist/6acddf3-0c5e-49c1-8771-be81fb2753ea/iso-385-3-1984)

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UDC 542.3 : 531.73/.75

Ref. No. ISO 385/3-1984 (E)

Descriptors : laboratory equipment, laboratory glassware, burettes, specifications.

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 385/3 was prepared by Technical Committee ISO/TC 48, *Laboratory glassware and related apparatus*.

It cancels and replaces ISO Recommendation R 385-1964, of which it constitutes a technical revision.

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Laboratory glassware — Burettes — Part 3 : Burettes for which a waiting time of 30 s is specified

1 Scope and field of application

This part of ISO 385 specifies requirements for an internationally acceptable series of burettes, for which a waiting time of 30 s is specified (type II burettes), and which are adequate for general laboratory purposes. They are adjusted to class A accuracy.

The requirements are in conformity with ISO 384 and ISO 385/1.

NOTE — General requirements for burettes are specified in ISO 385/1-3:1984.

Particular requirements for burettes, for which no waiting time is required, are specified in ISO 385/2.

2 References

ISO 384, *Laboratory glassware — Principles of design and construction of volumetric glassware.*

ISO 385/1, *Laboratory glassware — Burettes — Part 1 : General requirements.*

ISO 385/2, *Laboratory glassware — Burettes — Part 2 : Burettes for which no waiting time is specified.*

ISO 4787, *Laboratory glassware — Volumetric glassware — Methods for use and testing of capacity.*

3 Requirements

3.1 Unless otherwise stated in this part of ISO 385, the burettes shall conform to the general requirements of ISO 385/1.

3.2 The capacity corresponding to any graduation line is defined as the volume, in millilitres or cubic centimetres, of water delivered by the burette at 20 °C when emptied from the zero line to that graduation line, the outflow being interrupted when the meniscus has come to a few millimetres above the

graduation line; final setting is made to the graduation line after a waiting time of 30 seconds.

NOTE — Where, exceptionally, the standard reference temperature is 27 °C, this value should be substituted for 20 °C.

4 Test method

The burette shall meet the requirements for limits of volumetric error laid down in ISO 385/1 when tested, using pure water and following the method described in the annex, in accordance with the procedure laid down in ISO 4787.

5 Delivery times and waiting time

5.1 Delivery time

The delivery time for type II burettes shall be as specified in the table.

Table — Delivery times

Nominal capacity ml	Smallest scale division ml	Delivery time	
		min. s	max. s
1	0,01	20	40
2	0,01	25	45
5	0,02	40	60
10	0,02	40	60
10	0,05	40	60
25	0,05	35	55
25	0,1	25	45
50	0,1	30	50
100	0,2	30	50

5.2 Waiting time

The waiting time (see 385/1, sub-clause 7.8) for all type II burettes shall be 30 s.

Annex

Test method and method of use

A.1 Fill the burette to a few millimetres above the zero line with the liquid to be measured and set the falling meniscus to the line.

Remove any drop adhering to the jet by bringing a glass vessel into contact with the jet.

A.2 Do not bring the jet into contact with the wall of the receiving vessel during the delivery period.

A.3 Add any drop adhering to the jet after the delivery has finished to the delivered volume by bringing the inside of the receiving vessel into contact with the jet.

A.4 Make the final setting 30 s after the stopcock has been closed.

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