INTERNATIONAL STANDARD

First edition 2005-04-15

Laboratory glassware — Burettes

Verrerie de laboratoire — Burettes



Reference number ISO 385:2005(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2005

This document is a preview generated by the interview of the test of test The reproduction of the terms and definitions contained in this International Standard is permitted in teaching manuals, instruction booklets, technical publications and journals for strictly educational or implementation purposes. The conditions for such reproduction are: that no modifications are made to the terms and definitions; that such reproduction is not permitted for dictionaries or similar publications offered for sale; and that this International Standard is referenced as the source document.

With the sole exceptions noted above, no other part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org Published in Switzerland

© ISO 2005 – All rights reserved

Contents

Page

Forew	word	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Basis of adjustment	2
4.1	Unit of volume	
4.2	Delivery volume.	
4.3	Reference temperature	2
5	Types and classes of accuracy	2
5.1	Classes of accuracy.	2
5.2	Classes of accuracy	2
6	Maximum permissible errors	
7	Material	3
8	Construction	3
8.1	Construction Dimensions	3
8.2	Top of hurette	4
8.3	Stopcocks and similar devices	4
8.4	Stopcock leakage	
8.5	Delivery jet	
8.6	Delivery time	
8.7	Dimensions Top of burette Stopcocks and similar devices Stopcock leakage Delivery jet Delivery time Waiting time	6
9	Graduation figuring and patterns	6
9.1	Graduating natterns	6
9.2	Position of graduation lines	6
9.3	Marking of graduation lines	6
	j - j	-
10	Setting of the meniscus	6
11	Markings	7
12	Graduation, figuring and patterns Graduating patterns Position of graduation lines Marking of graduation lines Setting of the meniscus Markings Visibility of graduation lines, numbers and inscriptions	7
Anne>	ex A (normative) Burettes for which no waiting time is specified	8
Annex	ex B (normative) Burettes for which a 30 s waiting time is specified	10
Annex A (normative) Burettes for which no waiting time is specified Annex B (normative) Burettes for which a 30 s waiting time is specified Bibliography		12
	T.	

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.

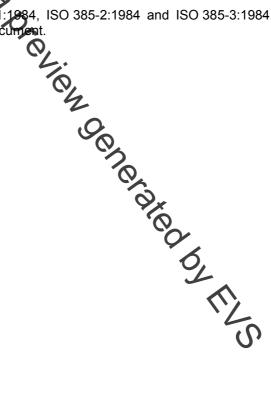
International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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 385 was prepared by Technical Committee ISO/TC 48, *Laboratory glassware and related apparatus*, Subcommittee SC 6, *Laboratory and volumetric ware*.

This first edition cancels and replaces ISO 385-1:1984, ISO 385-2:1984 and ISO 385-3:1984, which have been technically revised and combined into one document.



Laboratory glassware — Burettes

1 Scope

This International standard provides metrological and construction requirements for an internationally acceptable series of urettes, suitable for general laboratory purposes.

The details specified are accordance with the principles of design and construction of volumetric glassware given in ISO 384.

NOTE For piston burettes, see ISO 8655-3.

2 Normative references

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

ISO 384:1978, Laboratory glassware — Principles of design and construction of volumetric glassware

ISO 719, Glass — Hydrolytic resistance of glass graps at 98 °C — Method of test and classification

ISO 4787:1984, Laboratory glassware — Volumetric glassware — Methods for use and testing of capacity

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

delivery volume

volume of liquid discharged from a volumetric instrument, such as a burette

NOTE Due to retention of liquid on the inner surface of the volumetric instrument, the volume of liquid delivered is not identical with the volume of liquid contained by the volumetric instrument.

3.2

delivery time

time required for the descent of the liquid meniscus from the zero line to the lowest graduation line of the volumetric instrument

3.3

waiting time

time to be observed after apparent completion of the liquid delivery of the volumetric instrument and before the final reading of the delivered volume is taken

NOTE A waiting time applies for burettes Class AS (see 5.2).