STN

Piestové odmerné prístroje Časť 1: Terminológia, všeobecné požiadavky a odporúčania pre používateľov (ISO 8655-1: 2022)

STN EN ISO 8655-1

70 4110

Piston-operated volumetric apparatus - Part 1: Terminology, general requirements and user recommendations (ISO 8655-1:2022)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/22

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Piston-operated volumetric apparatus - Part 1: Terminology, general requirements and user recommendations (ISO 8655-1:2022)

Appareils volumétriques à piston - Partie 1: Définitions, exigences générales et recommandations pour l'utilisateur (ISO 8655-1:2022) Volumenmessgeräte mit Hubkolben - Teil 1: Begriffe, allgemeine Anforderungen und Gebrauchsempfehlungen (ISO 8655-1:2022)

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 8655-1:2022 (E)

Contents	Page
European foreword	3

EN ISO 8655-1:2022 (E)

European foreword

This document (EN ISO 8655-1:2022) has been prepared by Technical Committee ISO/TC 48 "Laboratory equipment" in collaboration with Technical Committee CEN/TC 332 "Laboratory equipment" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

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

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Endorsement notice

The text of ISO 8655-1:2022 has been approved by CEN as EN ISO 8655-1:2022 without any modification.

INTERNATIONAL STANDARD

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Second edition 2022-04

Piston-operated volumetric apparatus —

Part 1:

Terminology, general requirements and user recommendations

Appareils volumétriques à piston —

Partie 1: Définitions, exigences générales et recommandations pour l'utilisateur





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Contents		Page
Fore	word	iv
Introduction		v
1	Scope	1
2	Normative references	
3	Terms and definitions	
4	Abbreviated terms	
5	Types of piston-operated volumetric apparatus	
	5.1 General	
	5.2 Pipettes	
	5.3 Burettes	
	5.4 Dilutors	
	5.5 Dispensers	
	5.6 Syringes	
6	General requirements	
	6.1 Frequency of calibrations and tests	
	6.2 Reporting measurement errors	
	6.3 Exchangeable Parts	
	6.4 Metrological confirmation	
	6.5 Routine testing	8
	6.6 Maintenance and repair	
	6.7 Suitability to give statements on performance	
	6.8 Determination of pass/fail status	9
7	Product information	
	7.1 User information	
	7.2 Decontamination and sterilisation	
	7.3 Chemical resistance	
8	Factors affecting choice of piston-operated volumetric apparatus	
	8.1 Interaction with liquids	
	8.2 Use of air displacement pipettes	
9	Marking	10
Bibli	iography	11

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 48, *Laboratory equipment*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 332, *Laboratory equipment*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 8655-1:2002), which has been technically revised. It also incorporates the Technical Corrigendum ISO 8655-1:2002/Cor.1:2008.

The main changes are as follows:

- ISO 8655-7, ISO 8655-8, and ISO 8655-9 have been added as normative references;
- abbreviated terms have been introduced as Clause 4;
- terms and definitions have been revised and some new ones included;
- general requirements for frequency of calibration, reporting measurement errors, exchangeable
 parts, metrological confirmation, routine testing, and maintenance and repair, suitability of
 statements on performance and determination of pass/fail status have been added in <u>Clause 6</u>.

A list of all parts in the ISO 8655 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The ISO 8655 series addresses the needs of:

- manufacturers, as a basis for quality control including, where appropriate, the issuance of manufacturer's declarations;
- calibration laboratories, test houses, users of the equipment and other bodies as a basis for independent calibration, testing, verification and routine tests.

The tests specified in the ISO 8655 series are intended to be carried out by trained personnel.

Piston-operated volumetric apparatus —

Part 1:

Terminology, general requirements and user recommendations

1 Scope

This document specifies general requirements for piston-operated volumetric apparatus (POVA). It is applicable to pipettes, burettes, dilutors, dispensers and manually operated precision laboratory syringes. It furthermore defines terms for the use of piston-operated volumetric apparatus and gives user recommendations.

This document does not apply to medical products intended for use on humans, e.g. for medical syringes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 8655-2, Piston-operated volumetric apparatus — Part 2: Pipettes

ISO 8655-3, Piston-operated volumetric apparatus — Part 3: Burettes

ISO 8655-4, Piston-operated volumetric apparatus — Part 4: Dilutors

ISO 8655-5, Piston-operated volumetric apparatus — Part 5: Dispensers

ISO 8655-6, Piston-operated volumetric apparatus — Part 6: Gravimetric reference measurement procedure for the determination of volume

ISO 8655-7, Piston-operated volumetric apparatus — Part 7: Alternative measurement procedures for the determination of volume

ISO 8655-8, Piston-operated volumetric apparatus — Part 8: Photometric reference measurement procedure for the determination of volume

ISO 8655-9, Piston-operated volumetric apparatus — Part 9: Manually operated precision laboratory syringes

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