ICS 17.060, 71.040.20 SLOVENSKÁ TECHNICKÁ NORMA September 2022

STN	**Piestové odmerné prístroje Časť 8: Fotometrický referenčný postup merania na stanovenie objemu (ISO 8655-8: 2022)**	**STN EN ISO 8655-8** 70 4110

Piston-operated volumetric apparatus - Part 8: Photometric reference measurement procedure for the determination of volume (ISO 8655-8:2022)

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

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EUROPEAN STANDARD

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ICS 17.060; 71.040.20

English Version

Piston-operated volumetric apparatus - Part 8: Photometric reference measurement procedure for the determination of volume (ISO 8655-8:2022)

Appareils volumétriques à piston - Partie 8: Mode opératoire de mesure photométrique de référence pour la détermination de volumes (ISO 8655-8:2022)

Volumenmessgeräte mit Hubkolben - Teil 8: Photometrisches Referenzprüfverfahren zur Bestimmung des Volumens (ISO 8655-8:2022)

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European foreword

This document (EN ISO 8655-8:2022) 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of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.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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INTERNATIONAL STANDARD

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Piston-operated volumetric apparatus —

Part 8: Photometric reference measurement procedure for the determination of volume

Appareils volumétriques à piston —

Partie 8: Mode opératoire de mesure photométrique de référence pour la détermination de volumes

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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).

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

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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.

INTERNATIONAL STANDARD **ISO 8655-8:2022(E)**

Piston-operated volumetric apparatus —

Part 8: Photometric reference measurement procedure for the determination of volume

1 Scope

This document specifies the photometric reference measurement procedure for the determination of volume of piston-operated volumetric apparatus (POVA). The procedure is applicable to complete systems comprising the basic apparatus with a maximum nominal volume of 5 000 µl and all parts selected for use with the apparatus, disposable or reusable, involved in the measurement by delivery (Ex).

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 1042, *Laboratory glassware — One-mark volumetric flasks*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*

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

ISO 8655-2, *Piston-operated volumetric apparatus — Part 2: Pipettes*

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

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

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

ISO/IEC Guide 2, *Standardization and related activities — General vocabulary*

ISO/IEC Guide 99:2007, *International vocabulary of metrology — Basic and general concepts and associated terms (VIM)*