

SVENSK STANDARD

SS-EN ISO 6556:2012

Fastställt/Approved: 2012-10-16
Publicerad/Published: 2012-10-17
Utgåva/Edition: 1
Språk/Language: engelska/English
ICS: 71.040.20

Laboratorieglass – Filterkolvar (ISO 6556:2012)

Laboratory glassware – Filter flasks (ISO 6556:2012)

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Denna standard är framtagen av kommittén för Laboratorieutrustning, SIS/TK 440.

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EUROPEAN STANDARD

EN ISO 6556

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2012

ICS 71.040.20

English Version

Laboratory glassware - Filter flasks (ISO 6556:2012)

Verrerie de laboratoire - Fioles à filtrer (ISO 6556:2012)

Laborgeräte aus Glas - Saugflaschen (ISO 6556:2012)

This European Standard was approved by CEN on 30 September 2012.

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Foreword

This document (EN ISO 6556:2012) 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of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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Endorsement notice

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SS-EN ISO 6556:2012 (E)

Laboratory glassware — Filter flasks

1 Scope

This International Standard specifies requirements to filter flasks with conical or cylindrical shape for general laboratory purposes.

2 Normative references

The following referenced documents are indispensable for the application 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 718, *Laboratory glassware — Thermal shock and thermal shock endurance — Test methods*

ISO 3585, *Borosilicate glass 3.3 — Properties*

3 Series and capacities

Two series of filter flasks are specified.

Series A filter flasks have either

- a conical shape (see Figure 1) with nominal capacities of 100 ml, 250 ml, 500 ml, 1 000 ml and 2 000 ml, or
- a cylindrical shape (see Figure 2) with nominal capacities of 3 l, 5 l, 10 l, 15 l and 20 l.

Series B filter flasks have a conical shape and a different choice of vacuum connections compared to Series A filter flasks and have nominal capacities of 25 ml, 50 ml, 125 ml, 250 ml, 500 ml, 1 000 ml, 2 000 ml and 4 000 ml.

4 Material

Filter flasks shall be made of borosilicate glass 3.3 conforming with ISO 3585; the glass shall be reasonably free from residual strain and from glass defects which might impair safety, durability or appearance.

5 Construction

5.1 Pressure strength

Filter flasks shall be constructed so as to withstand a pressure differential (external-internal) of 2 bar (1 bar = 10^5 Pa), i.e. twice the pressure in normal use, when tested in accordance with the test method specified in Annex A.

For this purpose, the dimensions given for wall thickness and radius of curvature given in Tables 1 to 3 shall be observed.

5.2 Shape

Filter flasks shall be conical or cylindrical. The base of the flasks shall be so constructed that they stand vertically without rocking or spinning when placed on a level surface.

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5.3 Radius of curvature of base

The base of the flask shall have a suitable radius of curvature in order to provide a smooth transition between the base and the side. The radius shall be not less than that given in Tables 1 to 3.

5.4 Wall thickness

The flask shall be blown so as to achieve a good distribution of glass in the mould without sudden changes in wall thickness. In order to meet the requirements of 5.1, the thinnest areas shall have a thickness not less than the minimum values specified in Tables 1 to 3.

5.5 Neck

The top of the neck shall be formed to provide suitable strength. The neck may be slightly tapered or cylindrical; alternatively, it may be manufactured with an interchangeable joint of appropriate size selected from ISO 383.

5.6 Protective coating

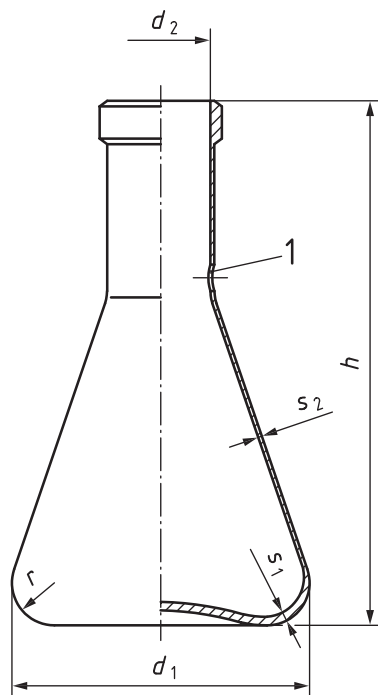
For protection against mechanical damage (impact or shock), filter flasks may have an external plastic coating.

6 Series A filter flasks

6.1 Vacuum connection (side-arm)

The vacuum connection shall be placed just at, or below, the cylindrical part of the neck (see Figure 1 and Figure 2). Three types of vacuum connection are described:

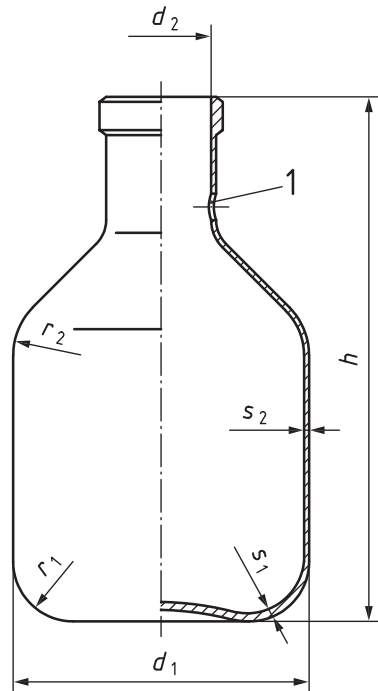
- a) a tubular side-arm as shown in Figure 3 with a taper of 1:5 to 1:10;
- b) an integral side-arm with a glass round thread as shown in Figure 4;
- c) a detachable side-arm; a typical arrangement with a resilient grommet is shown in Figure 5. A detachable side-arm may also be provided with an appropriate glass round thread.



Key

1 vacuum connection

Figure 1 — Conical shape



Key

1 vacuum connection

Figure 2 — Cylindrical shape