

**SLOVENSKI STANDARD
SIST ISO 5782-1:1998****01-december-1998**

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Pneumatic fluid power -- Compressed-air filters -- Part 1: Main characteristics to be included in suppliers' literature and product marking requirements

iTeh STANDARD PREVIEW

Transmissions pneumatiques -- (Standards.iTeh.ai) Filtres pour air comprimé -- Partie 1: Principales caractéristiques à inclure dans la documentation des fournisseurs et exigences de marquage du produit

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Ta slovenski standard je istoveten z: ISO 5782-1:1997

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Filters, seals and
contamination of fluids

SIST ISO 5782-1:1998**en**

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INTERNATIONAL STANDARD

ISO
5782-1

Second edition
1997-12-15

Pneumatic fluid power — Compressed air filters —

Part 1:

Main characteristics to be included in supplier's
literature and product-marking requirements

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Transmissions pneumatiques — Filtres pour air comprimé —

*Partie 1: Principales caractéristiques à inclure dans la documentation
des fournisseurs et exigences de marquage du produit*

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Reference number
ISO 5782-1:1997(E)

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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.

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.

International Standard ISO 5782-1 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 5, *Control products and components*.

This second edition cancels and replaces the first edition (ISO 5782-1:1990), of which it constitutes a technical revision.

ISO 5782 consists of the following parts, under the general title *Pneumatic fluid power — Compressed air filters*:

- *Part 1: Main characteristics to be included in supplier's literature and product-marking requirements*
- *Part 2: Test methods to determine the main characteristics to be included in supplier's literature*

Annex A of this part of ISO 5782 is for information only.

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Introduction

In pneumatic fluid power systems, power is transmitted and controlled through air under pressure within a circuit. Where mechanical filtration of the air media is desired, filters are components designed to remove solid and liquid contaminants from compressed air.

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Pneumatic fluid power — Compressed air filters —

Part 1:

Main characteristics to be included in supplier's literature and product-marking requirements

1 Scope

This part of ISO 5782 specifies which characteristics of compressed air filters are to be included in the supplier's literature.

It also specifies product-marking requirements.

This part of ISO 5782 applies to compressed air filters, constructed from light alloys (aluminium, etc.), zinc diecast alloys, brass, steel and plastic, with a rated pressure of up to 1 600 kPa (16 bar) and a maximum temperature of 80 °C, designed to remove solid and liquid contaminants from compressed air by mechanical means.

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2 Normative references

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The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 5782. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 5782 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2944:1974, *Fluid power systems and components — Nominal pressures.*

ISO 5598:1985, *Fluid power systems and components — Vocabulary.*

ISO 5782-2:1997, *Pneumatic fluid power — Compressed air filters — Part 2: Test methods to determine the main characteristics to be included in supplier's literature.*

3 Definitions

For the purposes of this part of ISO 5782, the definitions given in ISO 5598 apply, together with the following:

3.1 rated pressure: Pressure, confirmed through testing, at which a component or piping is designed to operate for a number of repetitions sufficient to assure adequate service life.

4 Technical requirements

Descriptive literature covering compressed air filters shall include the following characteristics.

4.1 General characteristics

4.1.1 General dimensions

The dimensions shown on figure 1 shall be given, in millimetres. For ports, see 4.1.2.

4.1.2 Port forms

Port forms should be selected from ISO 228-1 for ports with pipe parallel threads, or ISO 7-1 for ports with pipe tapered threads.

The connecting interface for flange-mounted designs may be plain ported and counterbored to accept O-rings.

For certain applications and connections, other port forms may be employed.

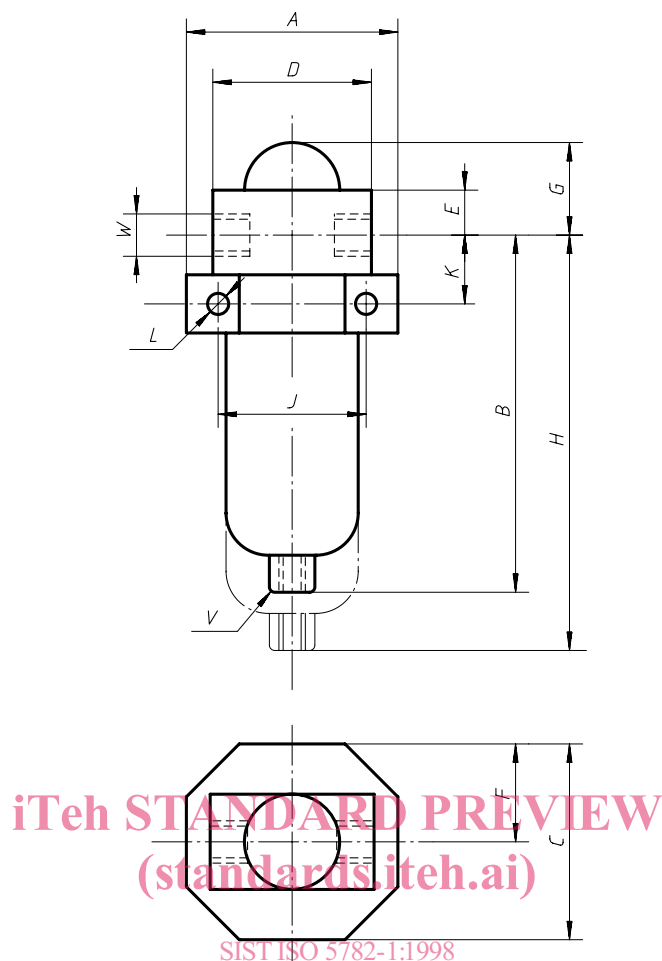
4.1.3 Rated pressure

Compressed air filters shall be classified according to a pressure selected from the preferred pressures listed in ISO 2944.

The rated pressure shall be verified using the test procedure specified in ISO 5782-2:1997, clause 6.

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Key

- A = Maximum overall width
- B = Maximum installation height below the port centreline
- C = Maximum overall depth, excluding pressure gauge
- D = Distance between the faces of the compressed air connection (inlet/outlet)
- E = Maximum height above the port centreline (excluding optional pressure-drop indicator)
- F¹⁾ = Maximum installation depth from the port centreline
- G = Optional pressure-drop indicator
- H = Minimum clearance from the port centreline to permit dismantling
- J²⁾ = Distance between mounting holes
- K²⁾ = Distance between the port centreline and mounting holes
- L²⁾ = Minimum diameter and length of mounting holes or recommended mounting bolts
- V = Drain hole description
- W = Port description

1) Applies also for mounting brackets.

2) Dimensions J, K and L shall be indicated only if the device has provisions for mounting.

Figure 1 — Dimensions of filters