

INTERNATIONAL STANDARD

ISO
7183-2

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Compressed air dryers —

Part 2:

Performance ratings

Sécheurs d'air comprimé —

Partie 2: Caractéristiques nominales de fonctionnement



Reference number
ISO 7183-2:1996(E)

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 7183-2 was prepared by Technical Committee ISO/TC 118, *Compressors, pneumatic tools and pneumatic machines*.

ISO 7183 consists of the following parts, under the general title *Compressed air dryers*:

— Part 2: *Performance ratings*

Annexes A, B and C of this part of ISO 7183 are for information only.

ISO 7183:1986 will be reissued as ISO 7183-1 at a future revision.

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Compressed air dryers —

Part 2: Performance ratings

1 Scope

This part of ISO 7183 provides general information to assist users and specifying engineers in the selection of the type of compressed air dryer which will best serve their needs.

This part of ISO 7183 does not cover safety requirements.

NOTE 1 Data sheets which are useful when selecting or specifying dryer design parameters are contained in annex A.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 7183. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 7183 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7183:1986¹⁾, *Compressed air dryers — Specifications and testing*.

3 Definitions

For the purposes of this part of ISO 7183, the definitions, symbols and units given in ISO 7183:1986 apply.

4 Comparison of compressed air dryer types

4.1 Pressure drop

Pressure drop across the dryer should be kept to a practical minimum, since increasing the dryer size to reduce pressure drop further may lead to an unacceptable increase in capital cost.

Conversely, the pressure drop should be held below an acceptable maximum in order to restrict power losses and system running costs. Table 1 shows typical pressure losses considered as the practical maximum acceptable level for compressed air dryers rated at 7 bar effective (gauge) inlet air pressure and maximum recommended flowrate when delivering the specified dew-point class and when tested at the reference conditions of ISO 7183:1986, table 2.

1) Will be reissued as ISO 7183-1 at a future revision.