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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Aerospace — Fluid systems and components — Pressure and temperature classifications

Aéronautique et espace — Systèmes de fluides et éléments constitutifs — Classification des températures et pressions

Reference number
ISO 6771 : 1987 (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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6771 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*.

This second edition cancels and replaces the first edition (ISO 6771 : 1981); the nominal pressures for classes B and D have been revised as follows :

Class B : 10 500 kPa (instead of 10 000 kPa);

Class D : 21 000 kPa (instead of 20 000 kPa).

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Aerospace — Fluid systems and components — Pressure and temperature classifications

0 Introduction

Aerospace fluid systems and components are generally designed and marked for a specific fluid pressure and temperature type. The operating pressures listed are selected from ISO 2944 as far as practical.

1 Scope and field of application

This International Standard establishes the temperature types and pressure classes that are commonly used in aerospace fluid systems.

2 Reference

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

3 Temperature classification

System operating temperature ranges shall be classified as given in table 1.

Table 1 — Temperature types

Type	Temperature range °C
I	–55 to 70
II	–55 to 135
III	–55 to 200
IV	–55 to 320
V	–55 to 400
VI	–55 to 650

4 Nominal pressure classification

Nominal pressures shall be classified as given in table 2.

Table 2 — Nominal pressure classes

Class	Nominal pressure kPa (bar)
A	4 000 (40)
B	10 500 (105)
C	16 000 (160)
D	21 000 (210)
E	28 000 (280)
F	40 000 (400)
G	50 000 (500)