International Standard 6771

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Aerospace construction — Fluid systems and components — Pressure and temperature classifications

Constructions aérospatiales — Systèmes hydrauliques et leurs composants — Classification des températures et pressions

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Foreword

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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.

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It has been approved by the member bodies of the following countries :

Australia	France	Spain
Austria	Germany, F. R.	Sweden
Belgium	Italy	United Kingdom
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USSR

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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 classifications

System operating temperature ranges shall be classified as follows :

Table 1 — Temperatures types

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

4 Nominal pressure classifications

Nominal pressures shall be classified as follows :

Table 2 — Nominal pressure classes

Class A	4 000 kPa (40 bar)
Class B	10 000 kPa (100 bar)
Class C	16 000 kPa (160 bar)
Class D	20 000 kPa (200 bar)
Class E	28 000 kPa (280 bar)
Class F	40 000 kPa (400 bar)
Class G	50 000 kPa (500 bar)