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

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



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Published in Switzerland

Foreword

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ISO 6771 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

This third edition cancels and replaces the second edition (ISO 6771:1987), which has been technically revised. This third edition adds imperial unit equivalents, and the nominal temperatures and pressures for all classes have been revised.

Introduction

Aerospace fluid systems and components are generally designed and marked for a specific fluid pressure class and temperature type.

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Aerospace — Fluid systems and components — Pressure and temperature classifications

1 Scope

This International Standard specifies the pressure classes and temperature types for the basic systems and component systems that are commonly used in aerospace fluid systems. Classes and types in the lower ranges represent systems in common use. Those in the higher ranges represent systems that are in less common use or that are used in developmental systems.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

basic system

temperature types and pressure classes of the aircraft fluid systems, usually specified in the aircraft specification, with which the vehicle is designed to be operated

NOTE 1 The basic system consists of several subsystems.

NOTE 2 The temperature type and pressure classes are tested and certified as an integral part of vehicle performance.

2.2

component system

system whose temperature types and pressure classes are usually defined in the product specification

NOTE 1 The components are tested and qualified individually under each subsystem.

NOTE 2 The harmonization of temperature and pressure tolerances is accomplished in the component systems so that one product can be used in both systems, metric or imperial, and attain the same degree of performance of the subsystem.

3 Classification

3.1 Basic system

3.1.1 General

The pressure classes and temperature types for the basic systems are as specified in Tables 1 and 2. No tolerance is permitted in the basic systems.

3.1.2 Pressure classes

Nominal system pressure classes for the basic systems shall be as specified in Table 1. The old pressure classes designated in Table 1 are the existing systems commonly used in the United States and Europe. The equivalent pressures as shown are mathematically converted from the basic systems for comparison only and should not be used in the basic systems.