

# INTERNATIONAL STANDARD



# 2944

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION · МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ · ORGANISATION INTERNATIONALE DE NORMALISATION

## Fluid power systems and components — Nominal pressures

*Transmissions hydrauliques et pneumatiques — Gamme de pressions nominales*

First edition — 1974-07-01

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UDC 621.8.032 : 532.11

Ref. No. ISO 2944-1974 (E)

**Descriptors :** fluid power, hydraulic fluid power, specifications, components, mechanical properties, pressure.

Price based on 1 page

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

International Standard ISO 2944 was drawn up by Technical Committee ISO/TC 131, *Fluid power systems and components*, and circulated to the Member Bodies in November 1972.

It has been approved by the Member Bodies of the following countries :

|                |             |                       |
|----------------|-------------|-----------------------|
| Australia      | Hungary     | Romania               |
| Austria        | India       | South Africa, Rep. of |
| Belgium        | Italy       | Sweden                |
| Brazil         | Japan       | Switzerland           |
| Bulgaria       | Mexico      | Thailand              |
| Czechoslovakia | Netherlands | Turkey                |
| Finland        | New Zealand | United Kingdom        |
| France         | Poland      | U.S.A.                |
| Germany        | Portugal    | U.S.S.R.              |

No Member Body expressed disapproval of the document.

For easy application and optimum performance of fluid power systems, it is desirable to have all components in an individual fluid power system, or subsystem thereof, rated to the same preselected nominal pressures. Preselected pressures are desired so that all International Standards relating to fluid power systems can have a common reference. It is desirable that these nominal pressures cover the widest possible range with the smallest reasonable number of steps. This would minimize the number of recommended nominal (system) pressures, improve component interchangeability, and standardize production.

Nominal pressures appearing in this document were selected from the series of preferred numbers in accordance with ISO 3, *Preferred numbers – Series of preferred numbers*, ISO 17, *Guide to the use of preferred numbers and of series of preferred numbers* and ISO 497, *Guide to the choice of series of preferred numbers and of series containing more rounded values of preferred numbers*. These nominal pressures will provide the basis for all pressures used in subsequent documents developed by ISO/TC 131 and its subcommittees.

More specifically, the nominal pressures appearing in this document were selected from the R 5 and R 10 series of preferred numbers as follows :

preferred values to 160 bar inclusive : R 5

preferred values above 200 bar : R 10

non-preferred values below 200 bar : R 10

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