

# INTERNATIONAL STANDARD

**ISO**  
**5859**

First edition  
1991-08-01

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## **Aerospace — Graphic symbols for schematic drawings of hydraulic and pneumatic systems and components**

**iTeh STANDARD PREVIEW**

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*Aéronautique — Symboles graphiques pour schémas de circuits de  
transmissions hydrauliques et pneumatiques*

ISO 5859:1991

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Reference number  
ISO 5859:1991(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 5859 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Sub-Committee SC 10, *Aero-space fluid systems and components*.

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# Aerospace — Graphic symbols for schematic drawings of hydraulic and pneumatic systems and components

## 1 Scope

This International Standard establishes a system of graphic symbols for schematic drawings of hydraulic and pneumatic circuits and components for all types of aerospace vehicles.

## 2 Requirements

Requirements are specified in SAE AS 1290A<sup>1)</sup> which is adopted as a *de facto* ISO International Standard.

For the purposes of international standardization, the amendments listed in table 1 shall apply to the specific clauses of AS 1290A noted under "Reference".

## 3 Identification statement (Reference to ISO 5859)

Use the following statement when electing to comply with ISO 5859:

"Graphic symbols are in accordance with ISO 5859, *Aerospace — Graphic symbols for schematic drawings of hydraulic and pneumatic systems and components.*"

## 4 Revision of AS 1290A

It has been agreed with SAE that Technical Committee ISO/TC 20 will be consulted in the event of any revision or amendment of AS 1290A.


1) AS 1290A, *Graphic Symbols for Aircraft Hydraulic and Pneumatic Systems*, is a copyrighted publication of the Society of Automotive Engineers (SAE). Copies of the original text in English are available from

SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001, USA

It is also available in electronic format CADAM 19.2, *Graphic Symbols for Aircraft Hydraulic and Pneumatic Systems*, AS 1290A, and in Auto-CAD/DFX Format 5 1/4 inch floppy disc.

The text of AS 1290A translated into French was circulated to member bodies with draft International Standard ISO/DIS 5859.

Table 1 — Amendments to AS 1290A

| Reference  | Amendment  |
|--|--|
| Page 3, paragraphs 1 and 5 }<br>Page 6, sub-clause 1.2 } | Change "ISO/TC 10 Committee 131" to "ISO/TC 131"   |
| 3.2.2, 3.2.3   | Add "18" in the third column (refers to NOTE 18, omitted in error).  |
| 8.4.2  | Change the direction of the arrows in the left part of the symbol, thus<br><br> |
| 8.1.7, 8.1.7.1   | Correct "an logous" to "analogous"   |
| 1.4, 2.2.1, 7.4.2, 7.4.2.1, NOTE 10                      | Change or add reference to "ATA 100 — May 1/67"  |
| 8.4.1.4 to 8.4.1.7                                       | Correct symbol numbers to 8.4.4 to 8.4.7.  |

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**Descriptors:** aircraft, aircraft equipment, hydraulic fluid power, pneumatic fluid power, drawings, technical drawings, graphic symbols.

Price based on 2 pages

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