

STANDARD

11926-3

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Connections for general use and fluid power — Ports and stud ends with ISO 725 threads and O-ring sealing —

Part 3:

Light-duty (L series) stud ends

Raccordements pour applications générales et transmissions hydrauliques et pneumatiques — Orifices et éléments mâles à filetage ISO 725 et joint torique —

Partie 3: Éléments mâles de série légère (série L)



Reference number
ISO 11926-3:1995(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 11926-3 was prepared jointly by Technical Committees ISO/TC 131, *Fluid power systems*, Subcommittee SC 4, *Connectors and similar products and components* and ISO/TC 5, *Ferrous metal pipes and metallic fittings*.

ISO 11926 consists of the following parts, under the general title *Connections for general use and fluid power — Ports and stud ends with ISO 725 threads and O-ring sealing*:

- *Part 1: Ports with O-ring seal in truncated housing*
- *Part 2: Heavy-duty (S series) stud ends*
- *Part 3: Light-duty (L series) stud ends*

Annex A forms an integral part of this part of ISO 11926. Annex B is for information only.

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Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. In general applications, a fluid may be conveyed under pressure.

Components are connected through their threaded ports by stud ends on fluid conductor fittings to tubes and pipes or to hose fittings and hoses.

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Connections for general use and fluid power — Ports and stud ends with ISO 725 threads and O-ring sealing —

Part 3: Light-duty (L series) stud ends

1 Scope

This part of ISO 11926 specifies dimensions, performance requirements and test procedures for adjustable and non-adjustable light-duty (L series) stud ends complying with ISO 725 and for their related O-rings, for general use and fluid power applications. It also specifies the designation of these stud ends.

Stud ends in accordance with this part of ISO 11926 may be used at working pressures up to 31,5 MPa (315 bar¹⁾). The permissible working pressure depends upon the stud end size, materials, design, working conditions, application, etc.

For threaded ports and stud ends specified in new designs in hydraulic fluid power applications, only ISO 6149 is to be used. Threaded ports and stud ends in accordance with ISO 1179, ISO 9974 and ISO 11926 are not to be used for new designs in hydraulic fluid power applications.

Conformance to the dimensional information in this part of ISO 11926 does not guarantee rated performance. Each manufacturer should perform testing according to the specification contained in this part of ISO 11926 to assure that components comply with the performance ratings.

NOTE 1 Significant testing over 40 years has confirmed the performance requirements of ports complying with ISO 11926-1 and of stud ends complying with this part of ISO 11926; the latter are identical to those complying with

1) 1 bar = 0,1 MPa = 10⁵ Pa; 1 MPa = 1 N/mm²

SAE J 514. They are used on connections complying with ISO 8434-2.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 11926. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 11926 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 48:1994, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*.

ISO 725:1978, *ISO inch screw threads — Basic dimensions*.

ISO 3448:1992, *Industrial liquid lubricants — ISO viscosity classification*.

ISO 3601-3:1987, *Fluid systems — Sealing devices — O-rings — Part 3: Quality acceptance criteria*.

ISO 4759-1:1978, *Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters between 1,6 (inclusive) and 150 mm (inclusive) and product grades A, B and C*.