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ISO/TC 131/SC 4

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

Connections for general use and fluid power — Ports and stud ends with ISO 263 UN and UNF threads and O-ring sealing —

Part 1: Ports with truncated housing for O-ring seal

Raccordements pour applications générales et transmissions hydrauliques et pneumatiques — Orifices et éléments mâles à filetage UN et UNF ISO 263, et joint torique —

Partie 1: Orifices à logement tronconique pour joint torique

[Revision of first edition (ISO 11926-1:1995)]

ICS 23.100.40

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Dimensions	2
5 Test methods	2
6 Designation of ports	2
7 Identification statement (reference to this part of ISO 11926)	2
Bibliography	5

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11926-1 was prepared by Technical Committee 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*.

This second edition cancels and replaces the first edition (ISO 11926-1:1995), which has been technically revised.

ISO 11926 consists of the following parts, under the general title *Connections for fluid power and general use — Ports and stud ends with ISO 263 UN and UNF threads and O-ring sealing*:

— Part 1: Ports with truncated housing for O-ring seal

— Part 2: Heavy-duty (S series) stud ends

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

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 fluid connectors to tubes and pipes or to hose fittings and hoses.

Ports are an integral part of fluid power components such as pumps, motors, valves, cylinders, etc.

For threaded ports and stud ends specified in new designs in hydraulic fluid power applications, ISO/TC 131/SC 4 recommends that the ISO 6149 series be used because these International Standards specify ports and stud ends with metric threads and O-ring sealing and because the sub-committee would like to help users by recommending one preferred system. ISO/TC 131/SC 4 further recommends that threaded ports and stud ends in accordance with the ISO 1179 series, ISO 9974 series and ISO 11926 series not be used for new designs in hydraulic fluid power applications; these International Standards will be maintained because they specify ports and stud ends that are currently used in hydraulic systems worldwide.

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Connections for general use and fluid power — Ports and stud ends with ISO 263 UN and UNF threads and O-ring sealing —

Part 1: Ports with truncated housing for O-ring seal

1 Scope

This part of ISO 11926 specifies dimensions for ports with UN and UNF inch threads complying with ISO 263 for use with the adjustable and non-adjustable stud ends detailed in ISO 11926-2 and ISO 11926-3. It also specifies test methods and the designation of these ports.

Ports in accordance with this part of ISO 11926 may be used at working pressures up to 63 MPa (630 bar¹) for non-adjustable stud ends, at 40 MPa (400 bar) for adjustable stud ends. The permissible working pressure depends upon the port size, materials, design, working conditions, application, etc.

NOTE 1 Users of this part of ISO 11926 should ensure that there is sufficient material around the port to maintain the pressure.

NOTE 2 Please see the introductions of this part of ISO 11926 for recommendations for ports and stud ends to be used for new designs in hydraulic fluid power applications.

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2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 68-2, *ISO general purpose screw threads — Basic profile — Part 2: Inch screw threads*

ISO 263, *ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0.06 to 6 in*

ISO 2306, *Drills for use prior to tapping screw threads*

ISO 5598, *Fluid power systems and components — Vocabulary*

ISO 5864, *ISO inch screw threads — Allowances and tolerances*

ISO 11926-2², *Connections for general use and fluid power — Ports and stud ends with ISO 263 UN and UNF threads and O-ring sealing — Part 2: Heavy-duty (S series) stud ends*

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

2 Under revision

ISO 11926-3³⁾, *Connections for general use and fluid power — Ports and stud ends with ISO 263 UN and UNF threads and O-ring sealing — Part 2: Heavy-duty (S series) stud ends*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5598 apply.

4 Dimensions

Ports shall conform to the dimensions shown in Figure 1 and given in Table 1.

5 Test methods

Ports shall be tested along with stud ends in accordance with the test methods and requirements given in ISO 11926-2 and ISO 11926-3.

6 Designation of ports

The ports shall be designated by

- a) "Port";
- b) reference to this part of ISO 11926, i.e. ISO 11926-1, followed by a spaced hyphen;
- c) thread size (d_1) and number of threads per inch (n), separated by a hyphen, without indicating the fine thread series (UNF) or the constant-pitch series (UN) and the thread class symbol (2B).

EXAMPLE Port ISO 11926-1 - 3/8 – 24

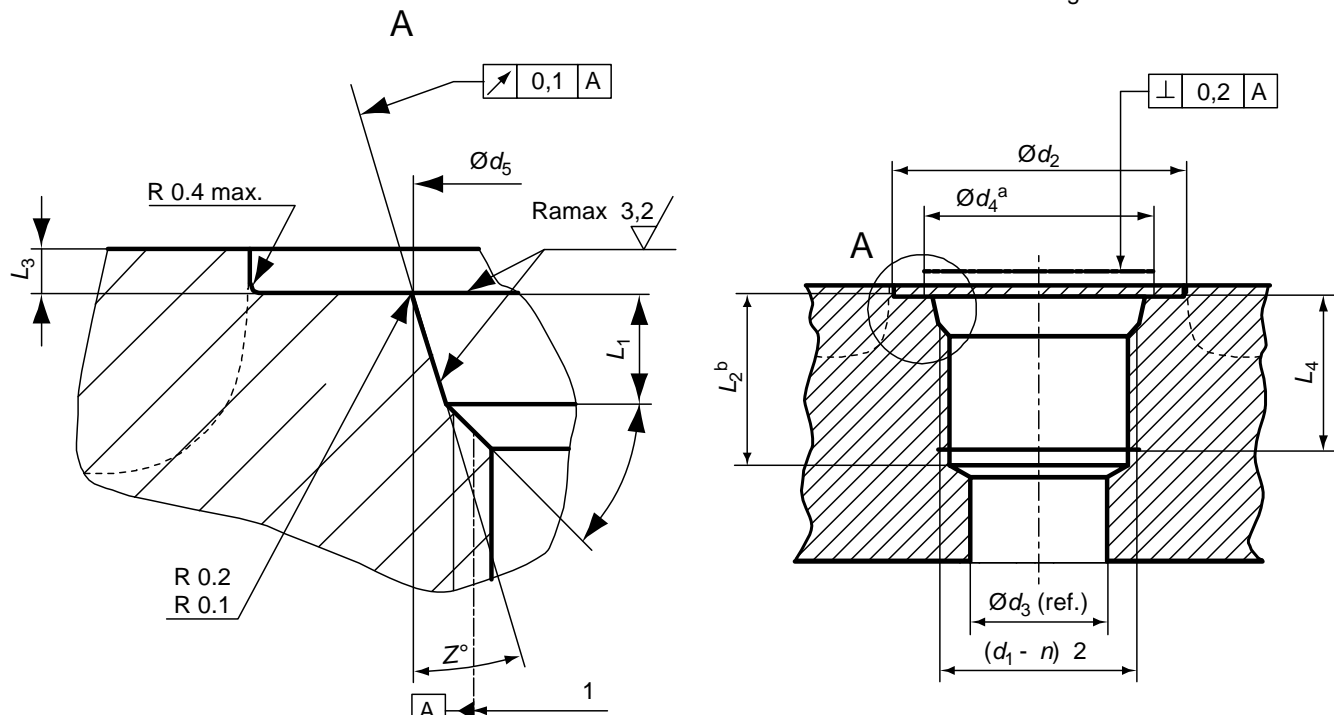
7 Identification statement (reference to this part of ISO 11926)

Use the following statement in test reports, catalogues and sales literature when electing to comply with this part of ISO 11926:

"Ports conform to ISO 11926-1:200X, *Connections for fluid power and general use — Ports and stud ends with ISO 263 UN and UNF threads and O-ring sealing — Part 1: Ports with truncated housing for O-ring seal.*"

³⁾ Under revision.

Dimensions in millimetres,
surface roughness in micrometres



a Dimension $\varnothing d_4$ is for gauging.

b Dimension l_2 only applies when the tap drill cannot pass through the entire boss.

Key

1 Pitch diameter

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Figure 1 — Port