

INTERNATIONAL STANDARD

ISO
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Metallic tube connections for fluid power and general use —

Part 5:

Test methods for threaded hydraulic fluid
power connections

*Raccords de tubes métalliques pour transmissions hydrauliques et
pneumatiques et applications générales —*

*Partie 5: Méthodes d'essai pour raccords filetés pour transmissions
hydrauliques*



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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.

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 8434-5 was prepared jointly by Technical Committees ISO/TC 5, *Ferrous metal pipes and metallic fittings* and ISO/TC 131, *Fluid power systems*, Subcommittee SC 4, *Connectors and similar products and components*.

These test methods have been included in several International Standards, but because of their generic application to ports, studs and tube connections for both metric and inch connections, it was agreed that a separate standard should be established. Additional tests are being considered.

ISO 8434 consists of the following parts, under the general title *Metallic tube connections for fluid power and general use*:

- *Part 1: 24 degree compression fittings*
- *Part 2: 37 degree flared fittings*
- *Part 3: O-ring face seal fittings*
- *Part 4: 24 degree cone connectors with O-ring weld-on nipples*
- *Part 5: Test methods for threaded hydraulic fluid power connections*

Annex A forms an integral part of this part of ISO 8434. Annexes B and C are for information only.

Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. Components must be designed to meet these requirements under varying conditions. Testing of components to meet performance requirements provides a basis of assurance for determining design application and for checking component compliance with the stated requirements.