



International
Standard

ISO 13948-2

**Diesel engines — Fuel injection
pumps and fuel injector low-
pressure connections —**

**Part 2:
Non-threaded (push-on)
connections**

*Moteurs diesels — Raccords basse pression pour pompes
d'injection de combustible et porte-injecteurs de combustible
complets —*

Partie 2: Raccords non filetés (à pression)

Fourth edition

PROOF/ÉPREUVE

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO/PRF 13948-2](https://standards.itih.ai/catalog/standards/iso/7c0bc864-d2b6-4f2f-a9e2-d0795eb6d14e/iso-prf-13948-2)

<https://standards.itih.ai/catalog/standards/iso/7c0bc864-d2b6-4f2f-a9e2-d0795eb6d14e/iso-prf-13948-2>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

PROOF/ÉPREUVE

© ISO 2024 – All rights reserved

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Connection designs and applications	1
4.1 Type A: Nipple connections.....	1
4.2 Type B: Stand pipe connections.....	2
4.3 Type C: Quick connector coupling connections.....	2
5 Dimensions and surface quality	3
5.1 Type A connection ends.....	3
5.1.1 Nipple types.....	3
5.1.2 Basic dimensions and tolerances.....	5
5.1.3 Radii.....	5
5.1.4 Surface quality.....	6
5.2 Type B connection end.....	6
5.3 Type C connection end.....	7
6 Designation	10
Bibliography	11

iTech Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO/PRF 13948-2](https://standards.iteh.ai/catalog/standards/iso/7c0bc864-d2b6-4f2f-a9e2-d0795eb6d14e/iso-prf-13948-2)

<https://standards.iteh.ai/catalog/standards/iso/7c0bc864-d2b6-4f2f-a9e2-d0795eb6d14e/iso-prf-13948-2>

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 34, *Propulsion, powertrain and powertrain fluids*.

This fourth edition cancels and replaces the third edition (ISO 13948-2:2016), which has been technically revised.

The main changes are as follows:

- [ISO/PRF 13948-2](https://standards.iteh.ai/catalog/standards/iso/7c0bc864-d2b6-4f2f-a9e2-d0795eb6d14e/iso-prf-13948-2)
dimensional tolerances on forming parts were optimized;
- language inclusivity was improved.

A list of all parts in the ISO 13948 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

There is a large variety of low-pressure connections on fuel injection equipment. These connections use different sealing principles and designs. This document specifies a common set of preferred types.

The ISO 13948 series is divided into two parts. ISO 13948-1 covers threaded connections. This document covers non-threaded (push-on) connections for use with low-pressure fuel supply and return, boost air pressure and lubricating oil supply and return.

Low-pressure connections to fuel filters are covered in ISO 7310, ISO 7311 and ISO 7654. High-pressure end-connections for pumps and injectors are covered in ISO 2974 and ISO 13296.

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[ISO/PRF 13948-2](https://standards.iteh.ai/catalog/standards/iso/7c0bc864-d2b6-4f2f-a9e2-d0795eb6d14e/iso-prf-13948-2)

<https://standards.iteh.ai/catalog/standards/iso/7c0bc864-d2b6-4f2f-a9e2-d0795eb6d14e/iso-prf-13948-2>

