INTERNATIONAL STANDARD

ISO 9110-2

Second edition
2020-05

Hydraulic fluid power — Measurement techniques —

Part 2: Measurement of average steady-state pressure in a closed conduit

Transmissions hydrauliques — Techniques de mesurage —

Partie 2: Mesurage de la pression moyenne dans un conduit fermé en régime permanent

Reference number
ISO 9110-2:2020(E)

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

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 documents 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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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 131, *Fluid power systems*, Subcommittee SC 8, *Product testing.*

This second edition cancels and replaces the first edition (ISO 9110-2:1990), which has been technically revised. The main changes compared to the previous edition are as follows:

— the list of normative references has been revised;

— additional terms and definitions have been added;

— the evaluation of the readability of measuring instruments has been deleted and moved to ISO 9110-1;

— the calibration of working instruments has been deleted and moved to ISO 9110-1;

— the selection and installation of test equipment has been revised and combined and test data acquisition has been renamed as measuring instrument selection;

— total measurement uncertainty has been added.

A list of all parts in the ISO 9110 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

Universal and standardized techniques for the measurement of pressure are required for accurate and repeatable evaluation of fluid power systems. The purpose of this document is to present recommended practices for the measurement of average steady-state pressure in hydraulic fluid power systems. This document is intended for use in conjunction with ISO 9110-1.