BS ISO 6605:2017

BSI Standards Publication

Hydraulic fluid power — Test methods for hoses and hose assemblies

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National foreword

This British Standard is the UK implementation of ISO 6605:2017. It supersedes BS ISO 6605:2002, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MCE/18/-/4, Connectors and associated components.

A list of organizations represented on this committee can be obtained on request to its secretary.

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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.

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).

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For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 4, *Connectors and similar products and components*.

This third edition cancels and replaces the second edition (ISO 6605:2002), which has been technically revised with the following changes:

— a WARNING was added before the Scope;

— added ISO/TR 11340 and ISO/TS 17165-2 and removed ISO 6945 from the normative references;

— added new ISO verbiage to the terms and definitions;

— added definitions for "change in length", "minimum burst pressure" and "cyclic endurance (impulse) test";

— replaced "operating pressure" with "maximum working pressure" throughout the document;

— added the statements: "The proof pressure shall be twice the maximum working pressure, unless otherwise specified" and "The minimum burst pressure shall be four times the maximum working pressure, unless otherwise specified in the pertinent hose product standard";

— replaced ISO 4672:1997 with ISO 10619-2:2011;

— added: "For values of d less than 25 mm, use d = 25 mm for the $2d$ term in the expression for the hose free length, so that the hose between the end of the hose fitting and the start of the bend radius is straight" and "The actual free hose length shall agree with the calculated free hose length to within +1/-0 % or +8/-0 mm, whichever is greater" to 5.6.2.2;

— redefined the frequency in 5.6.2.5, added a new 5.6.2.6 and 5.6.2.9, revised Figure 2 and added Figure 3;

— deleted the abrasion test;

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— updated all the references in the Bibliography.

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