BS ISO 20766-2:2018

BSI Standards Publication

Road vehicles — Liquefied petroleum gas (LPG) fuel systems components

Part 2: Performance and general test methods

Documents
Document Sharing Hub

Full document details: BS ISO 20766-2:2018

National foreword

This British Standard is the UK implementation of ISO 20766-2:2018.

The UK participation in its preparation was entrusted to Technical Committee GSE/40, Gas supply equipment for natural gas vehicles.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2018
Published by BSI Standards Limited 2018

ISBN 978 0 580 91056 2

ICS 43.060.40

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2018.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: BS ISO 20766-2:2018

INTERNATIONAL STANDARD

ISO 20766-2

First edition
2018-11-30

Road vehicles — Liquefied petroleum gas (LPG) fuel systems components —

Part 2: Performance and general test methods

Véhicules routiers — Équipements pour véhicules utilisant le gaz de pétrole liquéfié (GPL) comme combustible —

Partie 2: Performances et méthodes d'essai générales

Reference number
ISO 20766-2:2018(E)

Documents
Document Sharing Hub

© ISO 2018

Full document details: BS ISO 20766-2:2018

COPYRIGHT PROTECTED DOCUMENT

© ISO 2018, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

© ISO 2018 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO 20766-2:2018

Contents

Page

Foreword ... **iv**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **2**
4 General ... **2**
5 Hydrostatic strength ... **2**
5.1 General ... 2
6 Leakage ... **3**
6.1 General ... 3
6.2 External leakage ... 3
6.3 Internal leakage ... 3
6.4 Test conditions ... 3
7 Excess torque resistance ... **4**
8 Bending moment ... **4**
9 Continued operation ... **5**
9.1 General ... 5
9.2 Test methods ... 5
9.2.1 Test procedure ... 5
9.2.2 Room temperature cycling ... 6
9.2.3 High-temperature cycling ... 6
9.2.4 Low-temperature cycling ... 6
10 Corrosion resistance ... **6**
11 Oxygen ageing ... **7**
12 Ozone ageing ... **7**
13 Electrical overvoltages ... **7**
14 Non-metallic material immersion ... **7**
15 Vibration resistance ... **8**
16 Brass material compatibility ... **8**
17 Insulation resistance ... **9**
18 Resistance to dry-heat ... **9**
19 Creep ... **9**
20 Temperature cycle test ... **9**
21 Compatibility with heat exchange fluids of non-metallic parts ... **10**
22 Automotive fluids exposure ... **10**
22.1 General ... 10
22.2 Test method ... 10
22.3 Fluids ... 10
22.4 Pass criteria ... 10
Bibliography ... **11**

© ISO 2018 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO 20766-2:2018

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 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

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 41, *Specific aspects of gaseous fuels*.

A list of all parts in the ISO 20766 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.

© ISO 2018 – All rights reserved
Documents
Document Sharing Hub
Full document details: BS ISO 20766-2:2018