

Methods for

Volumetric measurement of liquid hydrocarbons —

Part 1: Displacement meter systems (other than dispensing pumps)

[ISO title: Liquid hydrocarbons — Volumetric measurement by
displacement meter systems other than dispensing pumps]

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Cooperating organizations

The Petroleum Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following:

- Chemical Industries Association
- British Lubricants Federation Limited
- British National Oil Corporation
- Department of Industry (National Engineering Laboratory)*
- Hydrocarbon Solvents Association
- Institute of Petroleum*
- London Transport Executive
- Ministry of Defence
- Society of Motor Manufacturers and Traders Limited

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- Association of Commodity Cargo Superintendents and Surveyors
- British Gas Corporation
- Department of Energy (Gas Standards)
- Department of Trade
- Department of Trade (Marine Division)
- General Council of British Shipping
- Institution of Gas Engineers
- The Salvage Association
- UK Offshore Operators' Association Ltd.
- United Kingdom Petroleum Industry Advisory Committee

This British Standard, having been prepared under the direction of the Petroleum Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 November 1981

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The following BSI references relate to the work on this standard:
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Contents

	Page
Cooperating organizations	Inside front cover
National foreword	ii
0 Introduction	1
1 Scope and field of application	1
2 References	1
3 System design and selection of meters and ancillary equipment	1
4 Installation in metering systems	2
5 Meter performance	4
6 Operation and maintenance of metering systems	6
Annex Typical arrangement of meter station with three displacement meters	8
National appendix A Clarification of ISO text	9
Publications referred to	Inside back cover

National foreword

This Part of this British Standard has been prepared under the direction of the Petroleum Standards Committee. It is identical with ISO 2714 “*Liquid hydrocarbons — Volumetric measurement by displacement meter systems other than dispensing pumps*” published in 1980 by the International Organization for Standardization (ISO).

Part 2¹⁾ of this British Standard, “Turbine meter systems”, is expected to be identical with ISO 2715 “*Liquid hydrocarbons — Volumetric measurement by turbine meter systems*”. Both of these ISO standards have been prepared by Sub-committee 2, Dynamic Petroleum Measurement, of ISO Technical Committee ISO/TC 28, Petroleum products and lubricants, in which the UK is an active participant.

Attention is drawn to National appendix A which details items which the BSI Technical Committee consider to require clarification.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, relating to this publication, they should be read as “British Standard”.

Cross-references. ISO 91, which is referred to in clause 2, 5.3.3.1 and 5.3.4.3, is in course of preparation and will be published in two Parts: ISO 91-1, relating to measurement at 15 °C and 60 °F, and ISO 91-2, relating to measurement at 20 °C. The BSI Technical Committee responsible has approved the draft of ISO 91 for eventual adoption as a British Standard.

ISO 91 will supersede ISO/R 91:1970, which requires reference to BSI Handbooks 15 and 16. These will be withdrawn upon adoption of the revised ISO 91 as a British Standard.

ISO 4124, which is at present at draft stage, is referred to in clause 2, 5.2.6, 6.2.5, 6.3 and 6.4.1 for information only. The validity of the standard is therefore not affected.

Additional information. The attention of users of this British Standard is drawn to the following publications, which may contain additional information of assistance to them in connection with the use of displacement meter systems.

a) H.M. Customs and Excise Notice No. 179M (October 1975) “Hydrocarbon Oils — Flow Meters at Bonded Oil Installations”.

b) ISO/DIS 6551 “*Petroleum liquids and gases — Fidelity and security of dynamic measurement — Electric and/or electronic pulsed data cabled transmission*”, which is at present in course of preparation and is expected to be published as a British Standard. The Draft Standard has been based on Part XIII of the IP Petroleum Measurement Manual “Fidelity and Security of Measurement Data Transmission Systems” — Section 1-252/76, Institute of Petroleum, London 1976.

NOTE *Textual error.* In the last line of 5.3.4.3, the footnote reference “2)” should read “1)”.

¹⁾ In course of preparation.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

