

Measurement of liquid flow in open channels —

Part 11: Free surface flow in closed conduits —

Part 11B: Specification for performance and installation of equipment for measurement of free surface flow in closed conduits

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Industrial-process Measurement and Control Standards Policy Committee (PCL/-) to Technical Committee PCL/3, upon which the following bodies were represented:

- Clyde River Purification Board
- Department of the Environment
- Department of the Environment for Northern Ireland
- Institute of Measurement and Control
- Institution of Water and Environmental Management
- National Rivers Authority
- Water Services Association of England and Wales
- Welsh Office

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Hydrological Society
- British Water Industries Group
- GAMBICA (BEAMA) Ltd.
- Water Research Centre

This British Standard, having been prepared under the direction of the Industrial-process Measurement and Control Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 October 1992

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National foreword

This Part of BS 3680 has been prepared under the direction of the Industrial-process Measurement and Control Standards Policy Committee. It is identical with ISO/TR 9824-2:1990 *Measurement of free surface flow in closed conduits — Part 2: Equipment*, published by the International Organization for Standardization (ISO).

This standard is one of a series of Parts of BS 3680-11 on free surface flow in closed conduits. Part 11A describes the methods of measurement of free surface flow in closed conduits, and Part 11C describes methods of measurement and equipment.

Cross-references. The Technical Committee has reviewed the provisions of ISO 772:1988, to which normative reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. A related British Standard to ISO 772 is BS 3680-1:1983. BS 3680-1 has since been revised, and is now published as BS 3680-1:1991. A revision of ISO 772 is in preparation. The introduction to ISO/TR 9824-2 reads as follows.

“The measurement of fluid flow and level in partially filled closed conduits presents particularly difficult problems and is not fully documented. This part of ISO/TR 9824 has been prepared therefore to give guidance to users on the existing equipment employed and on recent developments in this field.

Efficient and effective engineering design requires accurate and reliable flow information. The flows in closed conduits may vary from zero through a free surface flow condition to a surcharged pipe-full condition, and they may contain both floating and suspended solids as well as other contaminants which may be highly corrosive (e.g. contaminants resulting from industrial processes). The determination of flows in these conditions demands the design of specialized equipment. This part of ISO/TR 9824 sets out the performance specifications for such equipment.”

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, 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.