

# Determination of hydraulic fluid power motor characteristics —

## Part 1: Method at constant low speed and at constant pressure

# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Machinery and Components Standards Committee (MCE/-) to Technical Committee MCE/18, upon which the following bodies were represented:

- Advanced Manufacturing Technology Research Institute
- Association of British Mining Equipment Companies
- Bath University Library
- British Compressed Air Society
- British Fluid Power Association
- British Hydromechanics Research Association
- British Steel Industry
- British Telecommunications plc
- Department of Trade and Industry (National Engineering Laboratory)
- Electricity Supply Industry in England and Wales
- Federation of Manufacturers of Construction Equipment and Cranes
- Health and Safety Executive
- Institution of Mechanical Engineers
- Ministry of Defence

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

- British Railways Board
- Society of Motor Manufacturers and Traders Limited

This British Standard, having been prepared under the direction of the Machinery and Components Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 28 February 1990

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# National foreword

This Part of BS 7275 has been prepared under the direction of the Machinery and Components Standards Policy Committee and is one of a series of methods of test to determine the characteristics of hydraulic fluid power motors. It is identical with ISO 4392-1:1989 “*Hydraulic fluid power — Determination of characteristics of motors — Part 1: At constant low speed and at constant pressure*”, published by the International Organization for Standardization (ISO).

The other Part of the standard is BS 7275-2, “*Method for startability*”, implementing ISO 4392-2:1989. Further Parts are being considered.

**Cross-references**

| International Standard | Corresponding British Standard                                                                                                 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ISO 1219:1976          | BS 2917:1977 <i>Specification for graphical symbols used on diagrams for fluid power systems and components</i><br>(Identical) |
| ISO 3448:1975          | BS 4231:1982 <i>Classification for viscosity grades of industrial liquid lubricants</i><br>(Identical)                         |

The Technical Committee has reviewed the provisions of ISO 4391 and ISO 5598, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this British Standard. The British Standard related to ISO 4409:1986 is BS 4617:1983 “*Method for determining the performance of pumps and motors for hydraulic fluid power transmission*”.

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 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.