# British Standard

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BSI

# BS 5418 : 1979
# ISO 5209-1977

UDC 621.646–777

British Standard Specification for

# Marking of general purpose industrial valves

[ISO title: General purpose industrial valves – Marking]

Spécification du marquage des appareils de robinetterie industrielle d'usage générale

Spezifikation für die Kennzeichnung für Industriearmaturen für allgemeine Verwendung

## National foreword

This British Standard has been prepared under the direction of the Mechanical Engineering Standards Committee. It is identical with ISO 5209 'General purpose industrial valves – Marking' published by the International Organization for Standardization (ISO).

This standard replaces BS 5418 : 1976, which was issued as the English language version of EN 19, a European Standard issued by the European Committee for Standardization (CEN). Action has been taken for EN 19 to be withdrawn.

The technical content of EN 19 and ISO 5209 is identical.

For an introduction to the subject matter of this British Standard, which would usually appear in the Foreword, see clause **0**.

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

Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'British Standard.'

## 0 INTRODUCTION

The purpose of this International Standard is to establish certain basic requirements for the marking of valves and to give recommendations for additional information markings.

This International Standard has, in general, to be considered in conjunction with the specific requirements of International Standards for individual types of valves or any specific requirements which may be agreed between a manufacturer and a purchaser.

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies mandatory and optional markings of general purpose industrial valves and states the manner of applying the markings, i.e. on the body, on a flange, or on an identification plate. Markings on the body may be integral with the body or on a plate securely fixed to the body. The material of this plate, which is distinct from the identification plate mentioned above, and the method of fixing to the body will be specified in the International Standard for the individual type of valve.

## 2 PRODUCT CLASSIFICATION AND DESIGNATION

### 2.1 Requirements

As the physical size of a valve governs applicable marking practice, different requirements are specified for valves of large dimensions (DN 50 and above) and for those of smaller dimensions (smaller than DN 50).

### 2.2 Explanatory notes

**2.2.1** The table lists those items which may be included in International Standards for individual types of valve.

**2.2.2** International Standards for individual types of valve will list mandatory and optional markings and specify the position, viz. the body, flange, or identification plate, in which they are to appear.

### 2.3 Valves of DN 50 and above

**2.3.1** Items 1 to 4 in the table are mandatory and shall be marked on the body of the valve.

**2.3.2** Items 5 and 6 are mandatory only when so specified in the International Standard appropriate to the individual type of valve and are then to be marked on the body and flange respectively.

**2.3.3** Items 7 to 19 are optional unless specified otherwise in the International Standard appropriate to the individual type of valve and may, when marked, be on the body or the identification plate.

### 2.4 Valves smaller than DN 50

The items which are mandatory will be defined in the International Standard appropriate to the individual type of valve, which will specify whether they are to be marked on the body or on the identification plate.

### 2.5 Additional markings

A manufacturer having complied with the above requirements and those of the International Standards appropriate to the individual types of valve is not :

a) precluded from marking any of the items in the table additionally in a place other than that specified; for example if a marking is mandatory on the body it may also be repeated on the identification plate;

b) precluded from adding any other markings, for example catalogue item numbers, providing that there is no risk of confusion between these markings and those of the table.

TABLE — **Valve markings**

| Item | Markings |
|---|---|
| 1 | Size designation* (DN) |
| 2 | Nominal pressure rating of valve* (PN) |
| 3 | Material designation for pressure containing parts** |
| 4 | Manufacturer's name and/or trademark |
| 5 | Arrow for direction of flow |
| 6 | Ring joint number |
| 7 | Limiting temperature rating (°C) |
| 8 | Thread identification |
| 9 | Limiting pressure rating (bar) |
| 10 | Identification number |
| 11 | Standard number |
| 12 | Melt identification |
| 13 | Trim identification |
| 14 | Service symbols |
| 15 | Valve lining |
| 16 | Quality and test labels |
| 17 | Inspector's stamp |
| 18 | Year of manufacture |
| 19 | Flow characteristic |

* Refer to appropriate International Standards.

** Preferably ISO reference.

# BS 5418 : 1979
# ISO 5209-1977

This British Standard, having been prepared under the direction of the Mechanical Engineering Standards Committee, was published under the authority of the Executive Board and comes into effect on 31 October 1979.



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**Contract requirements**
Attention is drawn to the fact that this British Standard does not purport to include all the necessary provisions of a contract.

**Revision of British Standards**
British Standards are revised, when necessary, by the issue either of amendment slips or of revised editions. **It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.**

The following BSI references relate to the work on this standard:
Committee reference MEE/191 Draft for approval 79/73002

## Cooperating organizations

The Mechanical Engineering Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

*Associated Offices Technical Committee
Association of Consulting Engineers
*Association of Hydraulic Equipment Manufacturers
Association of Mining Electrical and Mechanical Engineers
British Compressed Air Society
British Electrical and Allied Manufacturers' Association (BEAMA)
*British Gas Corporation
British Gear Manufacturers' Association
*British Internal Combustion Engine Manufacturers' Association
British Pump Manufacturers' Association
*British Steel Corporation
*British Steel Industry
*British Valve Manufacturers' Association
Chartered Institution of Building Services
Crown Agents for Oversea Governments and Administrations
Department of the Environment
Department of Industry, Mechanical Engineering
*Department of Industry, National Engineering Laboratory
Department of Trade (Marine Division)
*Electricity Supply Industry in England and Wales
*Engineering Equipment Users' Association
Federation of Manufacturers of Construction Equipment and Cranes
*Health and Safety Executive
Institution of Gas Engineers
*Institution of Mechanical Engineers
Institution of Plant Engineers
Institution of Production Engineers
*Lloyd's Register of Shipping
London Transport Executive
Machine Tool Industry Research Association
*Ministry of Defence
*National Coal Board
*Oil Companies Materials Association
Process Plant Association
Railway Industry Association of Great Britain
Society of Motor Manufacturers and Traders Limited
Telecommunication Engineering and Manufacturing Association (TEMA)
Water-tube Boilermakers' Association

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

Amalgamated Union of Engineering Workers
Association of Bronze and Brass Founders
British Chemical Engineering Contractors' Association
British Industrial Measuring and Control Apparatus Manufacturers' Association
British Ship Research Association
British Shipbuilders
CBMPE
Copper Development Association
Copper Tube Fittings Manufacturers' Association
Council of Ironfoundry Associations
Greater London Council
Institution of Chemical Engineers
Institution of Civil Engineers
Institution of Water Engineers and Scientists
National Brassfoundry Association
National Water Council
Society of British Gas Industries
Steel Casting Research and Trade Association
Water Companies Association

## Amendments issued since publication

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