

Tubes for fluid power cylinder barrels —

Part 1: Specification for steel tubes with specially finished surfaces

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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
- 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
- Institution of Mechanical Engineers
- Ministry of Defence

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

- British Industrial Truck Association
- Institution of Chemical Engineers
- Welding Manufacturers' Association (BEAMA Ltd.)

This British Standard, having been prepared under the direction of the Machinery and Components Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 December 1987

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Foreword

This Part of BS 5242 has been prepared under the direction of the Machinery and Components Standards Committee and supersedes BS 5242-1:1975, BS 5242-3:1978, BS 5242-4:1981 and PD 6477:1976, which are withdrawn.

The standard has been drafted in consultation with representatives of the hydraulic and pneumatic equipment and tube manufacturers to meet an essential need within the fluid power industry for an improved standard dealing with steel tubes for cylinders.

For the majority of applications, tubing is required in terms of inside diameter and thickness. For telescopic cylinders, however, the important dimensions for the intermediate and inner stages are either or both the inside and outside diameters (taking account of the pressure rating).

The 1975 edition of BS 5242-1 and ISO 4391/1-1980, published by the International Organization for Standardization (ISO), were closely related, but this revision covers requirements in greater detail and includes preferred dimensions for telescopic cylinder barrels, including those for mining applications, which were included in BS 5242-3 and BS 5242-4.

Requirements for non-ferrous tubes are specified in BS 5242-2 (identical with ISO 6537).

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Summary of pages

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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.

