

Specification for

Lubricating nipples —

Part 2: Heavy duty lubricating nipples

Co-operating organizations

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

Admiralty*	Gas Council
Air Ministry	High Commission of India
Associated Offices' Technical Committee	Institute of Marine Engineers
Association of Consulting Engineers (Incorporated)	Institute of Petroleum
British Chemical Plant Manufacturers' Association	Institution of Civil Engineers
British Compressed Air Society	Institution of Gas Engineers
British Electrical and Allied Manufacturers' Association	Institution of Heating and Ventilating Engineers
British Engineers' Association	Institution of Mechanical Engineers*
British Gear Manufacturers' Association	Institution of Mechanical Engineers (Automobile Division)*
British Internal Combustion Engine Manufacturers' Association*	Institution of Production Engineers
British Iron and Steel Federation	Locomotive and Allied Manufacturers' Association of Great Britain*
British Railways, The British Transport Commission	Machine Tool Trades Association
Crown Agents for Oversea Governments and Administrations	Ministry of Labour (Factory Inspectorate)
D.S.I.R.—National Engineering Laboratory	Ministry of Power
Electricity Council, The Generating Board and the Area Boards in England and Wales	Ministry of Transport
Engineering Equipment Users' Association	Ministry of Works
	National Coal Board
	National Physical Laboratory (D.S.I.R.)
	Radio Industry Council
	War Office*

The Government departments and scientific and industrial 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 standard:

Ministry of Agriculture, Fisheries and Food	Public Transport Association (Incorporated)
Municipal Passenger Transport Association (Incorporated)	Society of Motor Manufacturers & Traders Ltd.
	Individual manufacturers

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Foreword

This standard makes reference to the following British Standards:

BS 970, *Wrought steels. EN series.*

BS 1580, *Unified screw threads.*

BS 1706, *Electroplated coatings of cadmium and zinc on iron and steel.*

BS 1768, *Unified precision hexagonal bolts, screws, nuts (UNC and UNF threads)—normal series.*

BS 1936, *Undercuts and runouts for screw threads.*

BS 2779, *Fastening threads of BSP. sizes.*

This publication forms Part 2 of a British Standard on lubricating nipples, sometimes referred to as lubricating fittings or grease nipples. Part 1 of this standard, published separately, deals with lubricating nipples and adaptors for use on machinery and vehicles.

It specifies the overall dimensions, thread sizes and body materials for heavy duty lubricating nipples but, other than specifying the location of check valves, it is not concerned with the component parts of the final assemblies.

Two types of nipples suitable for greases or heavy oils are provided for:

1) *Industrial button head nipples* for use on heavy machinery where a more robust nipple is desired than those provided for in BS 1486-1. Two types of connectors (sometimes called “couplers” or “nozzles”) are used, commonly referred to as the “hook-on” and “thrust-on” types, and these are operationally interchangeable with those used for the button head nipples detailed in BS 1486-1.

2) *Giant button head nipples.* A new introduction to the standard, for use on heavy machinery where larger volumes and heavier bodied lubricants are required. Two types of connectors (sometimes called “couplers” or “nozzles”) are used but these are of a larger size than those used for the industrial button head nipple.

In this first revision of the original Part 2 of the standard, Unified screw threads to BS 1580 have been specified in addition to British Standard Pipe fastening threads to BS 2779. Type numbers for items threaded to the latter remain unchanged whilst those for items having Unified threads carry the prefix “U”.

Notes on the use of nipples, including information on the clearances required for the application of connectors and minimum spacing for grouping, are given in the Appendix.

Locomotive button head nipples specified in BS 1486-2:1948 have been excluded from this revision owing to their limited application in modern design and practice.

BS 1486-1 deals with lubricating nipples, adaptors and limited supply plugs for use on machinery and vehicles. It excludes nipples for aircraft, for which BS SP 115–117, “*Hydraulic surface-check type lubricating nipples for aircraft*”, is applicable.

BS 1486-3, which dealt with lightweight miniature hexagon headed lubricating nipples and was based upon the aircraft practice at its date of publication (1949), was withdrawn in 1956.

NOTE Where metric equivalents are stated, the figures in British units are to be regarded as the standard. The metric conversions are approximate and are based on the tables in BS 350, "*Conversion factors and tables*". Precise metric conversions for engineering purposes should be based on the tables in BS 2856, "*Precise conversion of inch and metric sizes on engineering drawings*".

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 12 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.

