

ASME B18.16M-2004

Prevailing-Torque Type Steel Metric Hex Nuts and Hex Flange Nuts

Revision and Consolidation of ASME B18.16.1M, B18.16.2M,
and B18.16.3M

AN AMERICAN NATIONAL STANDARD



The American Society of
Mechanical Engineers

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FOREWORD

American National Standards Committee B18 for the standardization of bolts, screws, nuts, rivets, and similar fasteners was organized in March 1922 as Sectional Committee B18 under the aegis of the American Engineering Standards Committee (later the American Standards Association, the United States of America Standards Institute and, as of October 6, 1969, the American National Standards Institute, Inc.) with the Society of Automotive Engineers and the American Society of Mechanical Engineers as joint sponsors. Subcommittee 16 was established in 1961 and charged with the responsibility for technical content of standards covering prevailing-torque nuts.

In 1972 the International Organization for Standardization published standards ISO 2320 and ISO 2358, covering the mechanical and performance properties and dimensions of metric series hexagon prevailing-torque type nuts, respectively.

In December 1974, Committee B18 directed Subcommittee 16 to discontinue work on standards for inch series prevailing-torque type hex nuts and to develop standards for metric series nuts.

As a result, ASME B18.16.1M-1979, ASME B18.16.2M-1979, and ASME B18.16.3M-1982 were approved. B18.16.3M was revised in 1998 to better meet the needs of conformance with Public Law 100-592. The revision defined those dimensions or characteristics which should be certified to assure product fit, form, and function. Other dimensions given would only be examined in the event of a dispute. Additionally, the Subcommittee removed the bearing surface finish requirement from the dimensional tables. It was felt that the torque at tension requirements of B18.16.2M-1979 adequately addressed the functional need for this characteristic.

This Standard, ASME B18.16M-2004, is a revision and consolidation of ASME B18.16.1M-1979, ASME B18.16.2M-1979, and ASME B18.16.3M-1998.

This Standard was approved as an American National Standard on September 9, 2004.

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