AS ISO 6302:2021
ISO 6302:1993

Australian STANDARD®

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# Earth-moving machinery — Drain, fill and level plugs



AS ISO 6302:2021

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Better Regulation Division — SafeWork NSW
Construction and Mining Equipment Industry Group
Department of Regional NSW
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Engineers Australia
Institute of Instrumentation, Control & Automation Australia
Minerals Council of Australia
Mining Electrical and Mining Mechanical Engineering Society
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# Earth-moving machinery — Drain, fill and level plugs

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# Preface

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment.

The objective of this document is to establish the types, shapes and sizes of the parts of the plugs used in connection with the hand tools listed in AS ISO 4510.1:2021 to permit easy removal and installation of plugs at the work-site. It does not set requirements, i.e. dimensions and materials, for the manufacture of plugs. This document applies to the drain, fill and level plugs required on earth-moving machines for the changing of lubricants, coolants, hydraulic oils and fuels.

This document is identical with, and has been reproduced from, ISO 6302:1993, *Earth-moving machinery — Drain, fill and level plugs*.

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# Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6302 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 3, *Operation and maintenance*.

This third edition cancels and replaces the second edition (ISO 6302:1986), of which it constitutes a technical revision.

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# Australian Standard®

# Earth-moving machinery — Drain, fill and level plugs

## 1 Scope

This International Standard establishes the types, shapes and sizes of the parts of the plugs used in connection with the hand tools listed in ISO 4510-1 to permit easy removal and installation of plugs at the work-site. It does not set requirements, i.e. dimensions and materials, for the manufacture of plugs.

This International Standard applies to the drain, fill and level plugs required on earth-moving machines for the changing of lubricants, coolants, hydraulic oils and fuels.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7-1:1982, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Designation, dimensions and tolerances*.

ISO 261:1973, *ISO general purpose metric screw threads — General plan*.

ISO 263:1973, *ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0.06 to 6 in*.

ISO 724:1993, *ISO general-purpose metric screw threads — Basic dimensions*.

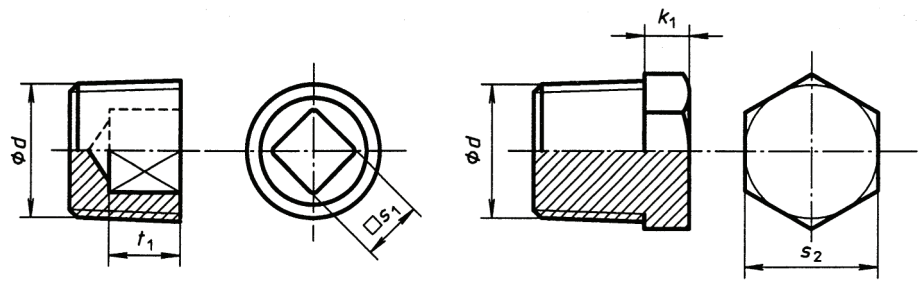
ISO 725:1978, *ISO inch screw threads — Basic dimensions*.

ISO 4510-1:1987, *Earth-moving machinery — Service tools — Part 1: Common maintenance and adjustment tools*.

## 3 Types and principal dimensions

### 3.1 Types A and B

Plugs of types A and B shall be as shown in figure 1 and table 1.




a) Type A:
Square countersunk headless plugs

b) Type B:
Hexagon outside head plugs

**Figure 1**

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