

AS 2952.3—1988/ISO 6392—1980

Australian Standard<sup>®</sup>

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**EARTH-MOVING MACHINERY—  
BASIC SHAPES AND  
DIMENSIONS**

**Part 3—LUBRICATION  
FITTINGS—  
NIPPLE TYPE**

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(ISO Title: Earth-moving machinery—Lubrication fittings—Nipple type)

This Australian Standard was prepared by Committee ME/63, Earthmoving Equipment. It was approved on behalf of the Council of the Standards Association of Australia on 3 March 1988 and published on 17 June 1988.

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Bureau of Steel Manufacturers of Australia  
Construction Equipment Importers and Manufacturers of Australia  
Department of Administrative Services  
Department of Conservation, Forests and Lands, Vic.  
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 FOREWORD

1. This Australian Standard corresponds with ISO 6392—1980, *Earth-moving machinery — Lubrication fittings — Nipple type*.
2. Introduction to and complete listing of the SAA series of earth-moving machinery Standards (AS 2951 to AS 2958) is available on request.
3. For the purpose of this Australian Standard the words 'International Standard' should be replaced by 'Australian Standard'.
4. ISO Standards referred to in this Standard correspond with the following Australian Standards:

ISO Standard	Australian Standard
ISO 2081	AS 1789
ISO 2082	AS 1790

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# Earth-moving machinery—Basic shapes and dimensions

## Part 3—Lubrication fittings—Nipple type

### 1 Scope and field of application

This International Standard specifies the tip end of lubrication nipples, recommended acceptable fitting configurations, and the clearance space for nipple fittings for multipurpose type grease applications on earth-moving machinery.

### 2 References

ISO 2081, *Metallic coatings — Electroplated coatings of zinc on iron or steel*

ISO 2082, *Metallic coatings — Electroplated coatings of cadmium on iron or steel*

### 3 Designation

All lubrication fittings for earthmoving machinery are designated by their configuration (see figure 3).

### 4 Materials, design and manufacture

#### 4.1 Material and manufacture

Unless otherwise specified, fittings shall be made from manufacturer's standard steel. The greasing end of fittings shall have minimum hardness of 56 Rockwell Scale C to a minimum depth of 0,153 mm (0.006 in) for the heavier nipples. For the thinner walled nipples, however, a case depth between 0,076 mm (0.003 in) and 0,153 mm (0.006 in) is permissible due to the thin wall section.

#### 4.2 Finish

Steel fittings shall have a minimum plating thickness of 0,005 mm (0.0002 in) of cadmium (ISO 2082) or zinc (ISO 2081). Fittings may have a supplementary chromate coating or similar treatment (but not unstable

organic type coatings) and both cadmium and zinc plated fittings shall withstand a salt spray (FOG) test.

#### 4.3 Workmanship

Fittings shall be free from burrs, loose scale, sharp edges, and all other conditions that might affect their intended lubrication function.

#### 4.4 Check valve

The lubrication fittings specified in this International Standard shall be supplied with check valves which will provide a seal against the ingress of foreign matter, but will admit lubricant under pressure and prevent its escape.

### 5 Required characteristics

#### 5.1 Dimensions and tolerances

The dimensions and tolerances are given in figures 1, 2 and 3 in both millimetre and inch units. The tabulated dimensions shall apply to the finished processed parts. Tolerances on all dimensions not otherwise limited shall be plus or minus 0,25 mm (0.01 in).

#### 5.2 Contour

Tip contour shall be optional according to the manufacturer, providing the dimensions in figure 1 are maintained to allow a standard hydraulic grip coupler to seal with up to a 10° misalignment to the axis of the fitting as shown in figure 2.

#### 5.3 Clearance space

Clearance space shall be provided for the lubrication nipple to allow use of lubrication equipment with a misalignment up to that shown in figure 2.