

Australian Standard[®]

**Threaded hose connection
fittings for bituminous materials**

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COUPLING ASSEMBLY, HOSE TO PIPE (FOR BITUMINOUS
MATERIALS)]

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Aluminium Development Council
Australian Gas Association
Australian Institute of Petroleum Ltd
Australian Liquefied Petroleum Gas Association
Australian Road Research Board
Australian Valve Manufacturers Association
Commercial Vehicle Industry Association of Australia
Confederation of Australian Industry
Department of Defence
Department of Industrial Affairs & Employment, S.A.
Department of Industrial Relations, N.S.W.
Department of Labour Relations, Queensland
Department of Minerals and Energy, Victoria
Department of Mines, W.A.
Institute of Road Transport Engineers
Metal Trades Industry Association of Australia
Society of Automotive Engineers, Australasia

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PREFACE

This standard was prepared by the Association's Committee on Road Tankers for Hazardous Liquids and Gases at the request of the Transport Committee of the Australian Institute of Petroleum Limited, with the object of providing a standard for threaded hose connection fittings for the transfer of bituminous materials.

Several designs of the threaded fittings in current use were considered and the selected design was that which was originated by the Country Roads Board of Victoria. Because of its current wide use, it was not practicable to adopt true metric threads for the fitting.

This standard may require reference to the following Australian standards:

AS 1565	Copper Alloy Ingots and Copper and Copper Alloy Castings
AS 1722	Pipe Threads of Whitworth Form Part 1—Sealing Pipe Threads Part 2—Fastening Pipe Threads
AS 1874	Aluminium Ingots and Aluminium Alloy Ingots and Castings
AS B47	Parallel Screw Threads of Whitworth Form

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
THREADED HOSE CONNECTION FITTINGS FOR BITUMINOUS MATERIALS

1 SCOPE. This standard specifies requirements for two sizes of threaded hose connection fittings (50 and 63.5) for use on equipment used for handling bituminous materials. It sets out dimensions and specifies requirements for materials, testing and marking.

NOTE: To apply this standard it is necessary to acquire further information and dimensions for the hose, to which the fitting will be attached, i.e. diameter and pitch of helix winding.

2 DEFINITIONS. For the purpose of this standard, the following definitions apply:

2.1 'Shall' and 'should'—'shall' is taken to be mandatory; 'should' is taken to be advisory.

2.2 Coupling—a device used to join a flexible hose to the outlet of a tank.

2.3 Fixed coupling (see Fig. 5)—that part of the coupling fixed to the tank and to which the hose coupling may be attached.

2.4 Hose coupling (see Fig. 8)—that part of the coupling fixed to the hose.

2.5 Bituminous materials—bitumen, bitumen emulsions, bitumen cutbacks, tars and related products.

3 DESIGNATION. The size of the coupling shall be designated by the number of this standard and the nominal size of the hose with which it is used, i.e. 50 or 63.5; e.g. AS 2475-50.

4 DIMENSIONS.

4.1 Component Dimensions. Dimensions and tolerances of components shall be as shown on Figs 1 to 7 and Table 1.

4.2 Screw Threads. The screw threads shown on Figs 1 to 3 and Figs 5 to 7 shall conform to Table 2.

5 MATERIALS.

5.1 Working Components (Except Ferrule). Parts shown in Figs 1, 2, 3 and 5 shall be made of cast copper alloy 836B (leaded gunmetal) complying with AS 1565 or cast aluminium alloy AP 309 complying with AS 1874.

5.2 Ferrule and Components for Protection. The ferrule (Fig. 4) shall be made of cast copper alloy 836B (leaded gunmetal) complying with AS 1565.

The dust plug (Fig. 6) and dust cap (Fig. 7) shall be made of cast aluminium alloy AS 303 complying with AS 1874.

5.3 Packing Material. The packing material shall be asbestos cord, 6 mm diameter.

6 ASSEMBLY. The hose coupling shall be capable of being assembled with the hose in accordance with the procedure described in Appendix A.

7 TESTING. When the coupling, assembled with the hose, is subjected to a hydrostatic test at a pressure not less than 2 MPa, it shall not fail.

8 MARKING. The swivel nut (Fig. 1) of the hose assembly and the fixed coupling (Fig. 5) shall be marked as follows:

- (a) Name or identification mark of the manufacturer.
- (b) Designation (see Clause 3).

The minimum height of the letters and numbers shall be 6 mm. The marking may be cast or indented.

NOTE: Manufacturers who place the number of this Australian standard on threaded hose connection fittings for bituminous materials, packaging or literature related thereto should ensure that the fittings are manufactured to comply with the standard.

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