

AS 4645—2005

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Australian Standard™

Gas distribution network management

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The following are represented on Committee AG–008:

Australian Liquefied Petroleum Gas Association
Energy Networks Association
Energy Retailers Association of Australia
Gas Technical Regulators Committee
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PREFACE

This Standard was prepared by the Standards Australia Committee AG-008, Gas Distribution to supersede AG-603. This Standard is a fully restructured and revised edition of AG 603, *Gas Distribution Code* that was published in 1978 (and last revised in 1982). The 1982 edition needed fundamental updating for a reformed industry environment.

The Committee primarily addressed the safety aspects of managing a fuel gas distribution network. It maintained a close liaison throughout with the Standards Australia Committee ME-038.

Users of the Standard should note that AS 1697 has been revised by AG-008 in parallel with the revision of this Standard. AS 1697 which is now titled *Installation and maintenance of steel pipe systems for gas*, (and AS 3723, *Installation and maintenance of plastics pipe systems for gas*, now under revision) have a supporting relationship with AS 4645 as depicted in Figure 1.1

A Standard finalized by the Committee in 1997, AG 606 (to become AS 4568), *Code of practice for the preparation of a safety and operating plan for gas networks*, deals with safety and operating plans (also known as safety cases) for regulatory authority purposes. AS 4645 gives safe management and safe operating requirements intended to be specified in safety and operating plans.

LP Gas distribution networks are included.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

The Standard is not a design handbook, nor a manual on distribution practices. It does not remove the need for qualified and experienced engineering design, installation and operation or for competent engineering judgement, and does require interpretation and implementation by competent engineers.

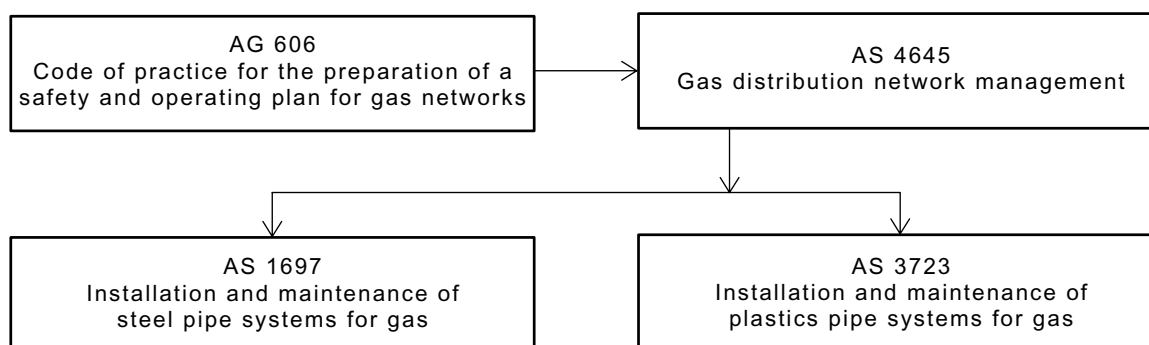


FIGURE 1.1 RELATIONSHIPS BETWEEN STANDARDS

NOTES:

- 1 AG 606 (to be AS 4568) is used for preparation of SOP/SC as required by technical regulator (advisory only).
- 2 AS 4645 specifies safety management of a gas distribution network for its life cycle. Refers to AS 1697 for steel and AS 3723 for plastics (see Note 3).
- 3 AS 1697 and AS 3723 specify material specific requirements for construction and installation (and operation/repair where material specific).

The Standard was prepared to provide an adequate risk based framework for management of a gas distribution system, by specifying performance requirements and avoiding detailed prescription as much as is possible. Where appropriate, detailed requirements (which tend to be prescriptive) are provided in AS 1697 for steel pipes and AS 3723 for plastic pipe.

The Standard relies on a risk management approach, as needed to meet regulatory requirements in most States. Risk management processes and criteria were initially developed in AG 606 (to be AS 4568), in anticipation of new regulatory regimes for gas distribution systems. AG 606 (to be AS 4568) will be reviewed and if necessary refined to meet the evolving needs.

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