Amendment 1 - Apr 1998

AS 3814—1998
AG 501—1998

Australian Standard®

Code for industrial and commercial gas-fired appliances

The Australian
Gas Association

STANDARDS AUSTRALIA

This Standard was prepared by The Industrial Gas Equipment Standards Committee (AG/5) of the Australian Gas Association. The Association is authorised as an Australian Standards Developer under a Memorandum of Agreement between Standards Australia and the Australian Gas Association. The Standard was approved by the Gas Technical Standards Council on 17 November 1997 and published on 5 February 1998.

The following interests are represented on AG/5:

Australian Gas Association Technical Office
Australian Gas Association Gas Appliance and Equipment Committee
Australian Liquefied Petroleum Gas Association
Appliance and Component Testing Bodies
Gas Appliance Manufacturers Association of Australia
Gas Appliances and Services Association
Gas distributing organisations
Gas retailing organisations
Office of Energy (NSW)
Office of Energy (WA)
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Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

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Amendment No. 1
to
AS 3814—1998
AG 501—1998
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CORRECTION

The 1998 edition of AS 3814/AG 501 is amended as follows; the amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Table 2.4.

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Page 61 Table 2.4

Delete the existing Table 2.4 and *replace with* the corrected Table 2.4 as follows:

Table 2.4: Flame Safeguard Classification

Appliance burner type	Burner input (MJ/h)	Flame safeguard classification (To meet AG 210, 204 or 209 as required)							
		1A	2A	2B	2Ca	2Cb	2D	3D	Thermo-electric
Atmospheric	0 to 200	Y	Y	Y	Y	Y	Y[1]	Y[1]	Y[2]
	0 to 500	Y	Y	Y	Y		Y[1]	Y[1]	Y[2]
	500 to 1000	Y	Y	Y	Y		Y[1]	Y[1]	Y[3]
	1000 to 5000	Y	Y	Y			Y[1]	Y[1]	
	500 to 20000	Y	Y				Y[1]	Y[1]	
	Over 20000	Y	Y[4]						
Forced or induced draught	0 to 2000	Y	Y		Y		Y[1]	Y[1]	
	2000 to 20000	Y	Y				Y[1]	Y[1]	
	Over 20000	Y	Y[4]						

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AG 501—1998

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PREFACE

This Code has been prepared by the Industrial Gas Equipment Standards Committee of The Australian Gas Association in conjunction with the Australian Liquefied Petroleum Gas Association Ltd and updates the 1996 version.

The Code is intended to provide uniform minimum requirements for the safe operation of gas-fired industrial appliances, and other large appliances used for commercial applications, which are not covered by any other AGA Code.

This Code should not be regarded as a design specification or as an instruction manual; it has been prepared with due regard for gas rules and regulations now in force. In its preparation, consideration has been given to:

- continuity of satisfactory operation of appliances and equipment;
- the prevention of fire hazards, and explosions;
- the prevention of injury to persons or property; and
- the provision of satisfactory permanent access for service.

Explosions are the main hazard on the firing side of the equipment covered by the Code; the basic cause being ignition of a combustible mixture in the combustion chamber or associated duct work. The magnitude and intensity of the explosion will depend on both the quantity of combustibles present and the proportion of air with which the combustibles are mixed.

Explosions may be the result of one or more of the following:

- improper procedures by operating personnel;
- improper design of equipment or control systems;
- equipment or control system malfunction, including valve leakage;
- interruption and restoration of gas or air supply causing loss of flame followed by delayed ignition of the resultant accumulation of a combustible mixture; or
- flame failure on a burner and subsequent ignition of the resultant accumulation of a combustible mixture.

The presence of a well-trained, reliable and competent operator provides a major contribution to safety.

The contents of the Code will be subject to periodic review and suggestions for improvement will be welcomed. These should be forwarded to:

The Technical Policy Manager
The Australian Gas Association
PO Box 171
Highett VIC 3190

The Australian Gas Association and the Australian Liquefied Petroleum Gas Association Ltd do not accept responsibility for any inadequacies in this Code, and compliance with this Code does not in any way remove the responsibility from any installation, commissioning or maintenance personnel for ensuring that the appliance is in a safe condition at all times.