

# Type B gas appliances



Creating a safer state  
with electricity and gas

# Type B gas appliances.

To ensure that all new, modified, relocated and second-hand Type B appliances are safe, acceptance must be obtained from Energy Safe Victoria (ESV) before any Type B appliance is commissioned and put into service.

## **Type B appliances**

A Type B appliance is an appliance with gas consumption in excess of 10MJ/h, for which a certification scheme does not exist.

It is the responsibility of the person lodging the Application for Acceptance of Complex Gas Installations and Type B Appliances to ensure the Type B appliance installation is safe, complies with AS 3814 Industrial and commercial gas-fired appliances and that the owner or operator receives adequate instruction in its use.

## **ESV acceptance application assessment**

ESV may inspect or audit a Type B appliance to check the appliance complies with AS 3814 and any other relevant standards.

When assessing applications for Type B gas appliances, ESV will endeavour to check for compliance with all relevant statutory requirements. ESV does not take responsibility for any breaches of these requirements. *The Gas Safety Act 1997* and the Gas Safety (Gas Installation) Regulations 2008 hold the person completing the Start Work Notice (Schedule 10) and Compliance Notice (Schedule 11) responsible for ensuring the appliance complies with the requirements and is safe to operate.

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Type B appliance owners must report gas-related incidents immediately to ESV and the gas supply company.

**Failure to comply may result in penalties.**

## How to obtain acceptance of a Type B appliance

1. Send ESV the completed application for acceptance form and the required Gas Safety (Gas Installation) Regulations 2008—Schedule 9 information for assessment. A minimum of 28 days should be allowed before the planned appliance commissioning date.
2. The submission must be accompanied by a Start Work Notice signed by a Type B licensed person who will be held responsible for the correctness of the application, safe commissioning and compliance of the appliance.
3. Within 28 days ESV will provide the applicant with written notification of its decision to:
  - a) Grant commissioning gas
  - b) Grant commissioning gas subject to conditions
  - c) Request additional supporting documentation
  - d) Deny commissioning gas.
4. No appliance is to have gas supplied to it until conditional acceptance has been granted.
5. Once conditional acceptance has been granted, the appliance may be commissioned by a Type B licensed person.
6. If a condition of acceptance is an inspection by ESV, a minimum of seven days notice must be given to ESV to inspect appliance testing. The Type B licensed person will arrange this with ESV by contacting the Gas Technical Helpline on 1800 652 563 and making an appointment.

ESV may notify the applicant that ESV has chosen not to inspect on this occasion; however, the appliance may be subject to a future audit.
7. Following an inspection of the appliance, or for applications not inspected but where information has been supplied by the commissioning person, ESV will allocate the appliance a Compliance Plate and a Final Acceptance Letter.
8. The appliance cannot be handed over to the owner or operator until a Compliance Plate and a Final Acceptance Letter has been issued.
9. Installations involving a Type B appliance are deemed Complex Gas Installations. Applications for acceptance must be provided for both the consumer piping installation and the Type B appliance.

## Owner responsibilities

Under the Gas Safety (Gas Installations) Regulations 2008, Type B appliance owners have a duty to maintain appliances in a proper state of repair and maintain all records for three years. Regular servicing by an appropriately experienced and licensed Type B person is essential. Penalties apply for failure to comply.

## Reporting incidents involving Type B appliances

Type B appliance owners must report gas-related incidents immediately to ESV and the gas supply company. Failure to comply may result in penalties.

## Re-installed or modified appliances

Acceptances lapse when Type B appliances are re-installed or modified. Whenever appliances are re-installed or modified, a new acceptance application must be submitted to ESV.

## Further reading

For further information check [www.esv.vic.gov.au](http://www.esv.vic.gov.au) and refer to Gas Information Sheet No. 31 or call **1800 652 563**.

## Necessary application information

To ensure your application for acceptance of a Type B appliance is processed as efficiently as possible, please provide the following Schedule 9 information with your application for acceptance.

1. Appliance details (as applicable):
  - a) Manufacturer's name
  - b) Model identification
  - c) Nominal gas consumption (MJ/h)
  - d) Gas type
  - e) Maximum and minimum gas supply pressures
  - f) Purge times
  - g) Gas pressure at burner head for the nominal gas consumption
  - h) Combustion chamber volume
  - i) Purge volume, being the total volume swept from the entry of the purge medium to the point of emission including interconnecting ductwork
  - j) Serial number
  - k) Date of manufacture.
2. Description of the appliance function and any associated industrial process with which the appliance is integrated, together with a drawing indicating the general arrangement.
3. Valve train schematic diagram clearly indicating:
  - a) All components (including brand and model) and component acceptance numbers
  - b) Rated working pressure of all components
  - c) Proposed settings of all adjustable devices
  - d) Nominal gas consumption
  - e) Supply pressure at appliance and burner pressure.
4. Electrical circuit diagram clearly indicating:
  - a) Safety and control circuits
  - b) Details of all major components (including brand and model)
  - c) Method of operation of all major components.

## Maintain your appliances.

Regular servicing by an appropriately experienced and licensed Type B person is essential.

5. Process and instrumentation diagram clearly indicating the relationship between safety and control functions of the appliance/process.
6. A calculation of time required to purge the appliance in accordance with AS 3814.
7. Safe start gas rate. Where required by AS 3814, calculation of the safe start gas rate, or critical time for ignition or critical energy.
8. Explosion relief area and dilution air flow rate (where relevant). If the appliance process involves solvents or dusts and where required by AS 3814, provide details of, and calculations for, explosion relief area and dilution air flow rates.
9. Details of fluing.
10. Details of ventilation.
11. Commissioning procedures and operating instructions.
12. In the case of a Type B appliance with a nominal gas consumption of more than 1000MJ/h, the gross thermal efficiency over its designed operating range and a statement comparing the appliance's efficiency with the best available performance in its class.

## Tip

ESV has a procedure to be followed by all persons wishing to install, modify or commission new or second-hand Type B appliances or carry out complex gas installation work.

Ensure your application and all other relevant information has been supplied **one month prior to gas being required.**

For further information go to **[www.esv.vic.gov.au](http://www.esv.vic.gov.au)** or phone ESV on **1800 652 563**.

Energy Safe Victoria **(03) 9203 9700**

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