

Gas Information Sheet 60

Gas installation acceptance – Schedule 8 requirements



This gas information sheet explains the additional information required to accompany an application for acceptance of a gas application that falls into one of the following categories:

- Has a total gas rate exceeding 3.8 gigajoules per hour.
- Has an operating pressure exceeding 200 kilopascals.
- Is being installed in a building exceeding 10 storeys above ground level.

This requirement is generally specified under section 73 of the Gas Safety Act 1997, and is specified in detail under Schedule 8 of the Gas Safety (Gas Installation) Regulations 2018.

The application for acceptance requires the Schedule 8 information because of the additional risks introduced into a gas installation by a high gas load, high pressure, or the installation being within a high rise building. The additional design and planning is required to ensure compliance and an acceptable safety outcome for the community.

If an applicant believes parts of Schedule 8 do not apply, then this should be stated in the application, including the reasons why. If additional information is required, ESV will send a written request¹ detailing what it is.

Additional Schedule 8 information

Table 1 lists the additional information a Schedule 8 requires and provides additional detail to assist with sourcing the information.

Table 1 - Schedule 8 information requirements

Schedule 8 information requirement	Explanation
Part 1 Details of the gas installation, including drawings of:	
a) The general arrangement of the consumer piping; and	A legible schematic (preferably in CAD format using the symbols in AS/NZS 5601.1 appendix P). The drawings should include a title block with the installation address.
b) The location of valves, pressure control regulators and other controls or devices installed within the piping; and	The schematic must include: <ul style="list-style-type: none">• the piping material• all isolation and control valves• regulators and meters
c) The location of any gas meter (but not the gas company's meter); and	<ul style="list-style-type: none">• identification of device(s) and all operating pressure• the location of gas sub-meters.
d) Piping designed to safely discharge gas from safety or control devices; and	This is referring to the vent line design details and its termination point.
e) Any associated electrical circuit diagrams	Where a device is electrically operated (like a gas solenoid, pressure proving system, or mechanical ventilation) the associated electrical schematic (or schematics) is required.

¹ This is called a Request for Information (RFI) and is emailed to the applicant. It is also available to applicants via GasTrac.

Schedule 8 information requirement	Explanation
	<p>For further requirements regarding mechanical ventilation refer to AS/NZS 5601.1 clause 6.4.8.</p> <p>Note: hand drawn schematics are acceptable for installations of a less complex nature provided they are clear and legible. For example, a single run to a large hot water heater in a factory.</p>
<p>Part 2 Details of design, calculations, test and commissioning procedures, including:</p>	
<p>a) Calculations of pressure loss</p>	<p>The design pressure drop must be nominated in the application. This requirement relates to pipe sizing and not to gas tightness testing.</p> <p>Allowable pressure drop:</p> <ul style="list-style-type: none"> is usually calculated considering the supply/metering pressure and minimum pressure required at an appliance or regulating device should be limited to prevent excessive velocity in the piping system. <p>AS/NZS 5601.1 Appendix F provides guidance for pipe sizing and allowable pressure drop.</p> <p>If the pressure drop:</p> <ul style="list-style-type: none"> derives from AS/NZS 5601.1, then supplementary calculations are not required (and where AS/NZS 5601.1 is used for pipe sizing and allowable pressure drop, please nominate the sizing table used) is determined by calculations other than from AS/NZS 5601.1, you should nominate who has completed the calculations and their experience.
<p>b) Testing for gas tightness</p>	<p>Stating in the application that this is the procedure being used satisfies this section of the Schedule, but you must also include the:</p> <ul style="list-style-type: none"> pipe volume operating pressure test pressure test duration test instrument used (which must be suitable for the pressure and volume being tested - see AS/NZS 5601.1, Appendix E, Table E2). <p>Installations outside the scope of Appendix E</p> <p>A specific test procedure must be developed and submitted in writing with the application for piping installations:</p> <ul style="list-style-type: none"> over 30 litres (0.03m³) in volume greater than 200 kPa operating pressure.
<p>c) Purging associated with commissioning or decommissioning piping</p>	<p>Use the purging procedure described in AS/NZS 5601.1, Appendix D provides for pipe volumes up to 30 litres (0.03m³).</p> <p>Stating in the application that this is the procedure being used satisfies this section of the Schedule, but you must also include the:</p> <ul style="list-style-type: none"> purge volume purge medium safe purge outlet location. <p>Installations outside the scope of Appendix D</p> <p>Alternative purging procedures must be documented and submitted with the application for pipe volumes greater than 30 litres (0.03m³).</p> <p>The outlet point should also be to the outer atmosphere.</p> <p>For more information about natural gas installation volumes in the</p>

Schedule 8 information requirement	Explanation
	range from 30 litres (0.03m ³) to 1000 litres (1.0 m ³) see: <ul style="list-style-type: none"> • ESV Gas Information Sheet 14 - Purging Natural Gas Installation Volumes Between 0.03m³ to 1.0m³ • the technical references listed under D7 of AS/NZS 5601.1, Appendix D.
d) Commissioning pressure control and other pipeline devices.	Provide details about the commissioning procedures for: <ul style="list-style-type: none"> • pressure control • other pipeline devices which may include over-pressure shut-off (OPSO) regulators, pressure proving solenoid valves, and gas boosters.
Part 3 Details of all control or other devices installed within the piping, including:	
a) Manufacturer's data sheets	Include the manufacturer's data sheets/instructions with the application when installing control devices that may include regulators, gas pressure raising devices, pressure proving systems, or solenoids.
b) Proposed setting of all adjustable devices.	Include the proposed settings (for example, the regulator inlet and outlet pressures, and the OPSO trip settings) when installing adjustable devices, which may include regulators, gas pressure raising devices, pressure proving systems, high and low gas pressure switches, and OPSOs. Ideally, include this information in the design drawing in Part 1. Note: settings may change during the commissioning process, so it is recommended that the 'as commissioned' information be documented and filed for future reference.

Further information

Contact ESV's Technical Information Line on 1800 652 563, or email gastechnicalenquiry@energysafe.vic.gov.au.