

Connecting to the gas transportation network safely

Information for owners and operators of gas installations with a connection to the national grid



Contact for operational activities

To report operational activities around a gas delivery station (such as work to be performed, bringing installations into or out of operation, etc), please contact the Connection desk:

Telephone: +31 50-5212323

E-mail: aansluitingen@gastransport.nl

Incidents

You can report incidents relating to your gas installation or the gas transportation network 24 hours a day to:

Central Command Post CCP

Telephone +31 50 5211500

Using gas safely

The gas supply in the Netherlands has an excellent reputation for security of supply. Safety and reliability have always been the first priority since the very first gas pipeline was constructed and this continues to be the case. That's why we have written this brochure informing you, as owners and operators of gas installations connected directly to the national grid, of the conditions your gas installations need to satisfy with regard to integrity. This concerns only gas installations that are (or have been) connected directly to the national grid.

Terminology

- ▶ Here '**gas installation**' means the whole of the pipelines and equipment on your side of the gas transfer point intended for the use or further transportation of the natural gas delivered via the transfer point.
- ▶ Here '**connection**' means the gas delivery station (GOS) including the connection pipe located on your territory and used for transferring gas from the national grid to your gas installation. The actual transfer takes place at the transfer point directly downstream of the GOS.



Network operator's responsibility

GTS is the owner and operator of the national grid. The Dutch Gas Act stipulates that GTS acts as independent network operator. GTS is therefore responsible for security of supply, reliability and safety of the gas supply; it also has an obligation to care for the environment.

Gas installation operator's responsibility

GTS' responsibilities extend as far the gas transfer point. This is the physical link between GTS' gas transportation network and the gas installation connected by you. As the operator of this type of gas installation you yourself are responsible for the safety, efficiency and reliability of the gas installation and the pipe(s) at your side of the transfer point. The gas installation must be designed, manufactured, inspected and maintained according to the applicable legislation and regulations. As a gas installation operator, you must be able to demonstrate this, i.e. show that your gas installation complies with the technical requirements of the Connection Code Gas TSO or show that the gas installation complies with conditions laid down in law regarding safety.

However, this does not yet fully guarantee the reliability of the gas supply.

The Connection Code Gas TSO contains conditions relating to the way in which you allow your gas installation and GTS allows its connection to be, and continue to be, technically and operationally compatible, so that your gas installation is, and remains, safely connected to the national grid. This is because the behaviour of your gas installation can affect the safety and reliability of the gas transportation network and so the Connection Code Gas TSO contains requirements relating to the connection's technical safety/integrity.

Demonstrating integrity where new gas installations are applicable

If you want to connect a new gas installation to the gas transportation network, you must ensure that the gas installation does not pose any risk to the smooth functioning of the national grid, neither to the staff of the network operator of the national grid nor to third parties brought in by the network operator. We refer to this as 'demonstrating the integrity of your gas installation connection'.

Pursuant to article 2.1.1 of the Connection Code Gas TSO, you must ensure that the gas installation complies (or continues to comply) with the safety conditions laid down under or pursuant to the law and you must demonstrate to GTS that the gas installation is technically safe before GTS can release the GOS for gas transportation.

You can demonstrate that the gas installation (including the cathodic protection and the buildings containing the gas installations) has been designed, installed and inspected in accordance with statutory regulations by allowing an inspection to be performed. The pressure systems must be assessed and inspected by a NOBO or inspection service of the user designated for pressure equipment. If the gas system is not subject to inspection according to the Warenwetbesluit Drukapparatuur (WBDA), the gas system must be tested according to the SCIOS scope 7B.

The installation manager ('installatieverantwoordelijke') of the connected party indicates by means of a written declaration that he will comply with the conditions for commissioning the GOS and that he is familiar with the requirements that apply to his gas installation. By agreeing to this declaration, GTS releases the GOS for gas transport.

If your organisation has a certified quality system you may issue a declaration yourself. In such cases you will usually be a large-scale user using a considerable amount of pressure equipment; you will have your own certified inspection department (IVG).

Making plans in good time

If you want to have a new or existing gas installation connected, it is extremely important that you mention this in good time. In practice, the procedure for demonstrating and verifying technical integrity takes two months.

Temporarily decommissioning and reconnecting a gas installation

You may want to decommission an existing gas installation temporarily for maintenance or other work. In that case it may also be necessary to close down the GOS. It is important for you to report any adaptations to your gas installation to GTS if these may be of significance to the safety or smooth functioning of the national grid. You are obliged to do so pursuant to the Connection Code Gas TSO.

If your gas installation has to be closed down temporarily you must report this at least two months in advance. GTS will take care of all actions relating to closing down and reconnecting. You must demonstrate the technical integrity/conformity of the gas installation, as described above, before it can be reconnected. As soon as the technical integrity/conformity of the gas installation has been adequately demonstrated, GTS can reconnect your gas installation and make it operational (gas-containing) again.

The conditions for commissioning the GOS are stated in the form "INBEDRIJFSTELLING GASONTVANGSTATION". This form will be made available to you after notification of the work.



Demonstrating integrity during the usage phase

You will also remain responsible for the integrity of your gas installation once it has been connected, although there is no requirement for demonstrating this at regular intervals. Your gas installation should meet the conditions referred to in the law relating to safety and operation.

This is necessary so that the gas installation will not pose any risk to the smooth functioning of the national grid, neither to the staff of the network operator of the national grid nor to third parties.

Integrity means that the gas installation is maintained and inspected according to the applicable legislation and regulations.

More information about using gas safely

www.gasunietransportservices.nl

Information provided by the national network operator GTS.

www.gasunie.nl

NV Nederlandse Gasunie's website.

www.rijksoverheid.nl/ministeries/szw

Information from the Ministry of Social Affairs and Employment about health and safety and certified inspection bodies.

www.scios.nl

Information about certification, inspection and maintenance of combustion plants.

www.iplo.nl

Information provided by the government about maintaining and inspecting gas appliances and gas installations.

www.euronorm.net

Information about legislation and standardisation.

www.overheid.nl

Information about (and guides to) government services.

www.nen.nl

Website of the Netherlands Standardisation Institute (NEN). Most Dutch NEN and EN standards can be ordered from this site.

Information for the gas installation manager of the connected party

- Natural gas pipes and pressure vessels with a pressure higher than 0.5 bar(e) in an industrial environment must comply with the Warenwetbesluit drukapparatuur (WBDA 2016)
- Work on these systems may only be carried out by persons and/or companies certified for this purpose.
- The pressure systems must be assessed and inspected by a NOBO or inspection service designated for pressure equipment of the user.
- If the gas system is not subject to inspection according to the Warenwetbesluit drukapparatuur (WBDA), the gas system must be tested according to the SCIOS scope 7B.
- The minimum design pressure of the gas system of the connected party depends on the highest setting of the safety (MIP) in the gas delivery station (see appendix alarm and trip setting list). As well as on the chosen design code/standard for the connected party's system. A Notified Body (NOBO) of the connected party must determine the design pressure of the connected party's gas system based on this data.
- Changes to the connected party's gas installation that could affect the capacity of the connection may only be made with the written approval of GTS. See: <https://www.gasunietransportservices.nl/en/connected-parties/direct-connected-parties/modifying-an-existing-connection>

Many questions regarding the decommissioning of a gas delivery station can also be found on the GTS website: <https://www.gasunietransportservices.nl/en/connected-parties/integrity-and-safe-usage-of-gas/safe-use-of-gas>

The legal requirements that pressure equipment in the Netherlands must meet are listed on the website of the Dutch Labour Inspectorate: www.nlarbeidsinspectie.nl/onderwerpen/drukapparatuur

The designated inspection services for the inspection of pressure equipment (in use or new) can be found via the link below: www.nlarbeidsinspectie.nl/onderwerpen/certificatie-en-registratie/lijst-van-aangewezen-cbi-en-ri

SCIOS scope 7 B certified companies can be found via this link: www.scios.nl/relatie/

Conditions for recommissioning the GOS:

- Changes to the gas installation of the connected party that affect the capacity of the connection have been approved in writing by GTS.
- The connected party ensures that his gas installation demonstrably continues to comply with the relevant legislation and regulations regarding pressure safety (WBDA 2016).
- The connected party has had the changes and/or repairs to the gas installation inspected by an authorised inspection service.
- The connected party must be able to demonstrate by means of a declaration drawn up by a NOBO, KVG or SCIOS certified company that the gas installation complies with the legal requirements.
- After carrying out the work, the gas installation of the connected party is ready for safe commissioning of the GOS.
- The installation manager of the connected party indicates by means of this written declaration that he will comply with the conditions for commissioning the GOS and that he is familiar with the requirements that apply to his gas installation.

gasunie			
Alarm en Trip Settinglijst GOS			
		EXAMPLE	
		8 BAR GOS	
Locatie nummer en naam		X-XXX	
Schema nummer		S-XXXX	
Locatie schema		X-XXX-XX	
Principe schema drukregel en meeteenheden		X-XXX-LS-XXX	
Principe schema verwarmingsinstallatie		X-XX-XXX-XX	
Soort levering		Industrieel	
Algemeen			
Design pressure upstream	DP(u)	X-XXX-XX	40,0 bar (e)
Max. operating pressure upstream	MOP(u)	X-XXX-XX	40,0 bar (e)
Max. incidental pressure upstream	MIP (u)		46,0 bar (e)
Design pressure downstream	DP(d)	diameter	DN 200
Max. operating pressure downstr.	MOP (d)		8,0 bar (e)
Max. incidental pressure downstr.	MIP (d)		11,0 bar (e)
Normen en inspectie			
Norm leidingen aangeslotenen		NEN-2078/NEN-EN-15001-1	
Norm gasdrukregelstation		NEN-1059	
Inspectie en verzegelen door		Bevoegd en aangewezen technicus	
Regelstraat (straat 1)			
Afslagveiligheid SSD	PSV-1-1	setpoint	9,3 bar (e)
Aktie	Sluiten PSV-1-1 en alarm naar Cars		
Monitor	PCV-1-1	setpoint	8,8 bar (e)
Aktie	Regelen PCV-1-1		
Monitor alarm naar cars	PS-1-1	setpoint	10,0 bar (e)
Reserve regelstraat (straat 2)			
Afslagveiligheid SSD	PSV-2-1	setpoint	10,3 bar (e)
Aktie	Sluiten PSV-2-1 en alarm naar Cars		
Monitor	PCV-2-1	setpoint	8,8 bar (e)
Aktie	Regelen PCV-2-1		
Monitor alarm naar cars	PS-2-1	setpoint	10,0 bar (e)
Lekgasafblaas	PRV-2-2	setpoint	8,6 bar (e)
CV leidingsectie drukbeveiliging warmtewisselaars			
Design pressure warmwater systeem	DP		3,0 bar (e)
Max. incidental pressure warmwater systeem	MIP		3,3 bar (e)
Afblaasveiligheid warmtewisselaar	E-1-1	PRV 1-1	setpoint 2,8 bar (e)
Afblaasveiligheid warmtewisselaar	E-2-1	PRV 2-1	setpoint 2,8 bar (e)
Revisie 2: Afblaasveiligheid toegevoegd o.b.v. afstelkaart. Openbaar gewijzigd in industrieel Revisie 3: Inspectie regime aangepast conform memo VK 16.0328 Revisie 4: Straten gewisseld. Straat 2 is voorzien van een geluidsarme drukregelaar Revisie 5: Lekgasafblaas PRV-1-2 in straat 1 is verwijderd. TV 24.IMD018.2019 Revisie 6: Straten gewisseld. Straat 1 is voorzien van een kleine gasmeter.			
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