

## Relevant standards

Decree	Pipeline (building-related)(5)	Pipeline (other)	Reducing/boosting /blending	Assembly site	Gas-consuming appliance (building-related)(5)	Gas-consuming appliance (other)	Flue gas outlet (building-related)(5)	Flue gas outlet (other)
Dutch Buildings Decree 2012 (Ministry of the Interior and Kingdom Relations, building quality dept.)	NEN 1078 NEN 2078 (6) NEN-EN 15001-1, 2 NEN-EN 1775 NEN-EN 13480-1,2,3,4,5,6	NEN-8078		NEN 670  Dutch Buildings Decree technical area			NEN 2757 (2) NPR-3378 various parts provide instructions and examples of how the provisions for natural gas installations can be met	NEN 8757
Commodities Act Decree on gas appliances (VWS)					NEN EN 303-3 NEN-EN 656 NEN-EN 676			
Commodities Act Decree on pressure equipment (1) (SZW)		EN 13480 Several parts	EN 13480 Several parts			NEN-EN 12952-8 NEN-EN 12953-7 NEN-EN 746 1/2/3		
Commodities Act Decree Machinery Directive (SZW)								
Dutch Environmental Management Act (Ministry of Infrastructure, Public Works and Water Management)	3)	3)	3)	4)				
National standards		NEN 2078 (6) NEN 1059 NEN- EN 12186 NEN-EN 13480-1,2,3,4,5,6	NEN 2078 (6) NEN 1059	NEN 3028 NPR 7910	VISA KVGN	VISA KVGN		
Other					Installation provision NEN-EN 303-1/2/4/5/6 NEN-EN 13836	Installation provision Other standards according to table 1.		

1 Only for a design pressure > 0,5 bar(o).

2 Up to 130 kW (upper value), no relevant standard for values above 130 kW.

3 The environmental permit may still refer to NEN 2078, however this can vary from one permit to another.

4 The environmental permit may refer to NEN 3028, however this can vary from one permit to another.

5 Building-related installations are installations which help to ensure that a building can be used by people; such installations include those for space heating, hot water and food preparation.

6. The standard NEN 2078 lapsed in 2011 and was succeeded by NEN-EN 15001-1 and -2 which have also been harmonised to the PED. The standard has been available in the Netherlands since 2011 and a revision is expected in 2018.

## Summary of directives and standards relating to gas installations.

STANDARD	DESCRIPTION
<b>European Directives</b>	the Gas Appliances Directive 2009/142/EC the Machinery Directive is still 2006/42/EC Pressure Equipment Directive (or PED) - 2014/68/EU the Low Voltage Directive - 2014/35/EU the EMC Directive - 2014/30/EU ATEX Directive - ATEX 114 (the old ATEX 95) - 2014/34/EU ATEX Directive - ATEX 153 (the old ATEX 137) - 1999/92/EC the Construction Products Directive was replaced on 1 July 2013 by the Construction Products Regulation (CPR), 305/2011/EU
<b>European standards applicable to appliances</b>  NEN-EN 303-1 t/m -6 NEN-EN 656  NEN-EN 676 NEN-EN 746-1  NEN-EN 746-2  NEN-EN 746-3  NEN-EN 12952-8  NEN-EN 12953-7  NEN-EN 13836  NEN- EN 161  NEN- EN 14382  NEN-EN 15001-1, 2	Central heating boilers parts 1 to 6 inclusive Gas-fired central heating boilers with a heat input between 70kW and 300 kW  Gas burner with ventilator Industrial thermoprocessing equipment-part 1: General safety requirements  Industrial thermoprocessing equipment-part 2: Safety requirements for combustion and fuel handling systems Industrial thermoprocessing equipment-part 3: Safety requirements for the generation and use of atmosphere gases Water-tube boilers and auxiliary installations - part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler Shell boilers - part 7: Requirements for firing systems for liquid and gaseous fuels for boilers Gas-fired central heating boilers – Type B boilers of nominal heat input exceeding 300 kW, but not exceeding 1000 kW. Automatic shut-off valves for gas burners and gas appliances with an operating pressure ≤ 4 bar. Safety devices for gas pressure regulating stations and installations-Gas safety shut-off devices for inlet pressures ≤ 100 bar. Gas infrastructure – Gas installation pipework with an operating pressure greater than 0,5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations
<b>Other European standards</b> NEN-EN 1775 NEN-EN 12186  EN 13480	Gas pipework for buildings – maximum operating pressure < 5 bar Gas infrastructure – Gas pressure regulating stations for transmission and distribution – Functional requirements Metallic industrial piping
<b>Dutch standards</b> NEN 1059 (2010)  NEN 1078 NPR 3378 series NEN 2078 NEN 2757  NEN 3028 NEN 10079-10 NPR 7910	Dutch edition based on NEN-EN 12186 and NEN-EN 12279 – Gas infrastructure – Gas pressure regulating stations for transmission and distribution Requirements and test methods for gas pipeline installations for domestic use Dutch practical guideline Requirements for industrial gas installations (lapsed in 2001 for new buildings) Air supply and smoke outlet of incineration furnaces in buildings – Determination methods Safety regulations for central heating installations Classification of hazardous areas with regard to gas explosion hazard Explanatory notes to NEN 10079-10
VISA	Safety of installations used for heating with natural gas (VISA - provisions) VISA-front VI (multi-chamber boilers with common combustion chamber) VISA-front XI, XVI, XVII (multi-burner installations)

STANDARD	DESCRIPTION
Royal Dutch Gas Association	General provisions part 1, Atmospheric burners, Royal Dutch Gas Association publication General provisions part 2, Ventilator burners, Royal Dutch Gas Association publication
NEN-ISO 21789	Gas turbine applications – Safety
Other installation provisions NVN-ENV 1954 NVN-ENV 14459 EN 50156-1 EN 61131 NEN-EN 601204-1 NEN-EN-IEC 61508 NEN-EN-IEC 61511	Manufacturer's or supplier's maintenance or installation provisions that are applicable Internal and external fault behaviour of safety-related electronic parts of gas appliances Risk analysis method and recommendations for using electronics in systems for controlling gas burners and gas appliances Electrical equipment for furnaces and ancillary equipment. Part 1: Requirements for application design and installation Programmable controllers part 1 and 2 Safety of machinery- Electrical equipment of machines Functional safety of electrical/electronic/programmable electronic safety-related systems part 1 to 7 Functional safety – Safety instrumented systems for the process industry sector- part 3: Guidance for the determination of the required safety integrity levels