

## Service Description

### Inspection prior to taking in-service "Keuring voor Ingebruikneming" "KvI" Warenwetbesluit Drukapparatuur 2016 – The Netherlands

The Inspection prior to taking in-service is incorporated by 'Koninklijk Besluit 339' of 5 July 2001 on adjustment of the 'Besluit drukapparatuur' for regulation on assemblies of pressure systems and inspection prior to taking in service of pressure equipment and pressure assemblies and pressure systems as well as amendment of other "besluiten" (decisions). Above mentioned legislation is changed in 2016 and is now called '[Warenwetbesluit drukapparatuur 2016](#)' (abbreviated WBDA 2016). Due to this legislation, Inspection prior to taking in-service is applicable in the Netherlands.

The Dutch legislation with respect to Pressure Equipment has been adjusted to let it fit with the European Pressure Equipment Directive PED 2014/68/EU, established on 15 May 2014 by the European Council and European Parliament. Mentioned Directive (PED) is covering a wide scope of industrial products and specifies requirements for manufacturers of pressure equipment w.r.t. relevant safety requirements for production and for the product itself that is placed on the market. Different from the PED, the legislation for Inspection prior to taking in-service is meant for users of pressure equipment. KvI is not only meant for new equipment, but also for existing equipment, which is getting i.e. a new location for operation or has been modified.

The inspection organisation performing the "KvI" – Inspection prior to taking in-service has been appointed by the Dutch authorities as NL Conformiteitsbeoordelingsinstantie (NL-CBI) and is only valid within the Dutch territory.

The legislation for the Inspection prior to taking in-service is implemented since the 1<sup>st</sup> of January 2002. Last revision was in 2016 (19 July).

#### 1. Application

A written application for a "Verklaring van Ingebruikneming" – VvI, (Declaration for Taking In-Service) should be sent to DNV GL. Where relevant, the application consists of:

- name and address of the user and the location of the pressure equipment or the assembly
- the user manual, as specified in annex I p. 3.4, of the PED, including the EU-Declaration of Conformity
- the documentation of the pressure equipment as specified in article 40 of the Warenwetbesluit Drukapparatuur (overgangsrecht/transfer legislation)
- information like diagrams and listings, to make assessment possible of the safety accessories / systems regarding the correct performance and to verify the extent of the pressure assembly

#### 2. Scope DNV GL

The extent of the scope of DNV GL is divided over 4 aspects

1. Verification based on the user manual(s) and marking(s)
2. Verification of the external condition
3. Verification of the performance of the safety accessories and other pressure accessories
4. Verification of the installation

The categorisation, if a pressure vessel, pipeline, pressure assembly or steam generator need a KvI, is described in the actual version of the [Warenwetregeling Drukapparatuur 2016](#). On the website of [DNV GL](#) the category tables are available in graphical lay-out as well.

#### 3. Verification based on the user manual(s) and marking(s)

Verification of pressure equipment and assemblies based on user manuals and markings. The examinations for conformity assessment, as specified in the art. 8 of the Warenwetbesluit Drukapparatuur 2016, will be considered. This means that already completed new building inspection assessments for the KvI, do not need to be repeated. However it should be verified if all necessary documents in accordance with the Warenwetbesluit Drukapparatuur 2016 are available. The following verifications could be applicable:

- Validation of required documents, showing the conformity assessments have been completed on the individual pressure equipment as: the EU-Declaration of Conformity, CE-marking etc.
- Validation of applicable identification mark of the Notified Body after the CE-mark, involved in the final inspection assessment
- Validation if the data nameplate has been tagged thoroughly and the required data is available with respect to identification, safe installation, performance or operation and maintenance and periodical inspections
- Distillate the relevant content from the instruction manual for KvI
- Validation if the specified requirements in the instruction manual could be applied during operation of the pressure equipment or the assembly (i.e. inspection intervals)

#### 4. Verification of the external condition

Validation of external deformations of the pressure equipment and/or assemblies, external damages (dents, corrosion, etc.).

## 5. Verification of the performance of the safety accessories and other pressure accessories

The following validations can be applicable:

- Set-and identification data of the safety accessories and pressure accessories
- Check on function/simulation of the safety accessories and pressure accessories. This can be done in cold or hot condition
- Check on the correct function of safety accessories and pressure accessories, which are related to the safety function at time of power failure
- Verification if safety accessories can't be shut off from the secured pressure equipment/-assembly or disabled by i.e. valves or interconnecting lines
- Verification of the blow down system and free outlet and verification that outlet capacity and free outlet are guaranteed.
- Check on safe relief of hazardous fluids
- Verification on assured function of double safety relief accessories and their key locking system
- Verification of correct category, accessibility, running, correct operation of the system closures
- Verification on the operation and signalling of relevant safety and alarm functions
- Verification on operation or simulation of instrumental safety systems for pressure equipment or assemblies, including emergency shut-down facilities
- Verification of the emergency shut down switch
- Verification on the operation of utility equipment for safe opening of the pressure equipment and assemblies, especially quick closures

## 6. Verification of the installation

Verification on the installation of the pressure equipment and assemblies. The following checks may be applicable, depending the type of pressure equipment or assembly and the location:

- Verification if the installation of the pressure equipment or assembly is in compliance with the instruction manual
- Verification if the foundation is in compliance with the instruction manual
- Check on influences of nearby pressure equipment or buildings and other constructions
- Verification on free movement of piping and their supports, especially the removal of temporary blocking for transport or installation
- Verification on the accessibility and readability of pressure and temperature gauges
- Check on accessibility of handling equipment and performing maintenance, examinations, repairs and inspections
- Check on the location of buried piping handling equipment and performing maintenance, examinations, repairs and inspections

## 7. Issuance of "Verklaring voor Ingebruikneming"

If all requirements are fulfilled a Declaration of taking into Service, "Verklaring voor Ingebruikneming", will be issued to the user for the pressure equipment or assembly.

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For additional information on pressure equipment services in the Benelux:

### **DNV GL Business Assurance B.V.\*1**

#### **Product Assurance**

I319 (ISO/IEC 17020)

NL-CBI

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\*1= DNV GL Business Assurance B.V. is notified by the Dutch authorities as NL-Conformity Assessment Body (NL-CBI) and accredited by the Dutch Council for Accreditation (RvA I319).