

**Gasflaskor – Flaskpaket för komprimerade och  
kondenserade gaser (exklusive acetylene) –  
Kontroll vid fyllning (ISO 11755:2005, IDT)**

**Gas cylinders – Cylinder bundles for compressed  
and liquefied gases (excluding acetylene) –  
Inspection at time of filling (ISO 11755:2005, IDT)**

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The International Standard ISO 11755:2005 has the status of a Swedish Standard. This document contains the official English version of ISO 11755:2005.

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## Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11755 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements for gas cylinders*.

This second edition cancels and replaces the first edition (ISO 11755:1996), which has been technically revised.

## Introduction

Transportable gas cylinder bundles require inspection before, during and after the filling process to ensure that all components are suitable for the intended filling conditions, and are free of serious defects and contamination that can affect the integrity of the bundle.

# Gas cylinders — Cylinder bundles for compressed and liquefied gases (excluding acetylene) — Inspection at time of filling

## 1 Scope

This International Standard specifies the requirements for inspection before, during and after the time of filling for cylinder bundles for compressed and liquefied gases, also referred to as bundles.

This International Standard does not apply to acetylene bundles.

This International Standard does not apply to bundles when they are a part of a battery vehicle.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6406, *Gas cylinders — Seamless steel gas cylinders — Periodic inspection and testing*

ISO 10461, *Gas cylinders — Seamless aluminium-alloy gas cylinders — Periodic inspection and testing*

ISO 11623, *Transportable gas cylinders — Periodic inspection and testing of composite gas cylinders*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **compressed gas**

gas which, when packaged under pressure for transport, is entirely gaseous at  $-50\text{ }^{\circ}\text{C}$

NOTE This category includes all gases with a critical temperature less than or equal to  $-50\text{ }^{\circ}\text{C}$ .

### 3.2

#### **cylinder bundle bundle**

transportable assembly of gas cylinders which is designed for being routinely lifted and which consists of a frame and two or more cylinders, each of water capacity up to 150 l, connected to a manifold by cylinder valves or fittings such that the cylinders are filled, transported and emptied without disassembly

### 3.3

#### **frame**

structural and non-structural members of a gas cylinder bundle which combine all its components together, whilst providing protection for the bundle's cylinders, valves and manifold, and which enable the bundle to be transported

### 3.4

#### **cylinder valve**

valve which is fitted into a cylinder and to which a manifold is connected

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- 3.5  
cylinder fitting**  
device with no gas shut-off capability that serves as a means for connecting the manifold of a bundle to its individual cylinders when cylinder valves are not fitted to the cylinders
- 3.6  
manifold**  
system for connecting the cylinder valves or fittings to the main outlet valve(s) or outlet connection(s) of the cylinder bundle
- 3.7  
main outlet valve**  
valve which is fitted to the manifold of the bundle isolating it from the outlet connection(s)
- 3.8  
liquefied gas**  
gas which, when packaged under pressure for transport, is partially liquid at temperatures above  $-50\text{ }^{\circ}\text{C}$
- 3.8.1  
high pressure liquefied gas**  
gas with a critical temperature between  $-50\text{ }^{\circ}\text{C}$  and  $+65\text{ }^{\circ}\text{C}$
- 3.8.2  
low pressure liquefied gas**  
gas with a critical temperature above  $+65\text{ }^{\circ}\text{C}$
- 3.9  
maximum permissible filling weight**  
product of the minimum guaranteed water capacity of the cylinders of the cylinder bundle and the filling ratio of the gas to be contained therein
- 3.10  
maximum permissible operating pressure**  
highest pressure permitted to be developed in a cylinder during service

**4 Inspection at time of filling****4.1 Inspection prior to filling**

Before filling a bundle, it shall be verified by visual examination that

- a) the bundle is permitted to be filled in the country of the filling station,
- b) the bundle has an unexpired periodic inspection and test date,
- c) the bundle is compatible with the nature of the gas and filling pressure or filling weight<sup>1)</sup>,
- d) the frame is free from damage which can affect its mechanical integrity,
- e) the restraining systems that prevent the cylinders from moving are secure and the cylinders have not moved while in service,
- f) any lifting attachments and/or fork-lift slots are free from damage that can affect the integrity of the bundle,
- g) the manifold and pipework are securely attached to the frame and are undamaged,
- h) flexible hoses, where fitted, are free from damage,

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1) In International Standards, weight is equivalent to a force, expressed in newtons. However, in common parlance (as used in terms defined in this International Standard), the word "weight" continues to be used to mean mass, but this practice is deprecated (ISO 31-3).