

International Standard



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Laryngoscopic fittings — Part 1 : Hook-on type handle-blade fittings

Éléments de laryngoscopes — Partie 1 : Système manche/lame à enclenchement

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Descriptors : medical equipment, laryngoscopes, fittings, hooks, dimensions.

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7376/1 was developed by Technical Committee ISO/TC 121, *Anaesthetic equipment and medical breathing machines*, and was circulated to the member bodies in December 1981.

It has been approved by the member bodies of the following countries :

Australia	France	Romania
Canada	Japan	South Africa, Rep. of
China	Mexico	Sweden
Czechoslovakia	Netherlands	United Kingdom
Egypt, Arab Rep. of	New Zealand	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Germany, F.R.
USA

Laryngoscopic fittings —

Part 1 : Hook-on type handle-blade fittings

0 Introduction

In clinical anaesthesia and resuscitations, a variety of laryngoscopes are widely used for direct laryngoscopy. Most laryngoscopes have battery powered lamps to illuminate the larynx. Because there is a clinical need for a variety of blade forms, they are manufactured most frequently as detachable blade and handle units.

The necessary connection between these two parts has been made in a variety of forms. A lack of standardization has led to incompatibility of some mechanical and electrical connections between the blades and the handles.

The aim of this part of ISO 7376 is to promote ready interchangeability between blades and handles of the hook-on type made by different manufacturers.

No attempt has been made to standardize either the blade form or handle design except at the connection point between the two.

WARNING — This part of ISO 7376 does not apply to fibre-light and other specialized laryngoscopes which do not have a lamp in the blade and a power source in the handle.

1 Scope and field of application

This part of ISO 7376 specifies basic dimensions for the parts of the joint between any blade and any handle of a hook-on type laryngoscope, used mainly for tracheal intubation, in which an electric lamp in the blade is supplied with power through the handle.

The fittings specified provide for both mechanical fixation and for completion of the electrical circuits from the handle to the blade and lamp.

Part 2 of ISO 7376 specifies screw-threads for electric lamps and lamp sockets.

2 Definitions

2.1 blade : Rigid component shaped to provide direct vision of the larynx.

2.2 handle : Component held in the hand during use. One end forms the hook-on connection for the blade.

2.3 contact : Metallic part of the hook-on fitting which comes together to make an electrical circuit when the handle and blade are engaged and extended for use.

3 Materials

Components of contacts shall be made of high conductivity metals to ensure low electrical resistance in the circuit between the handle and the lamp.

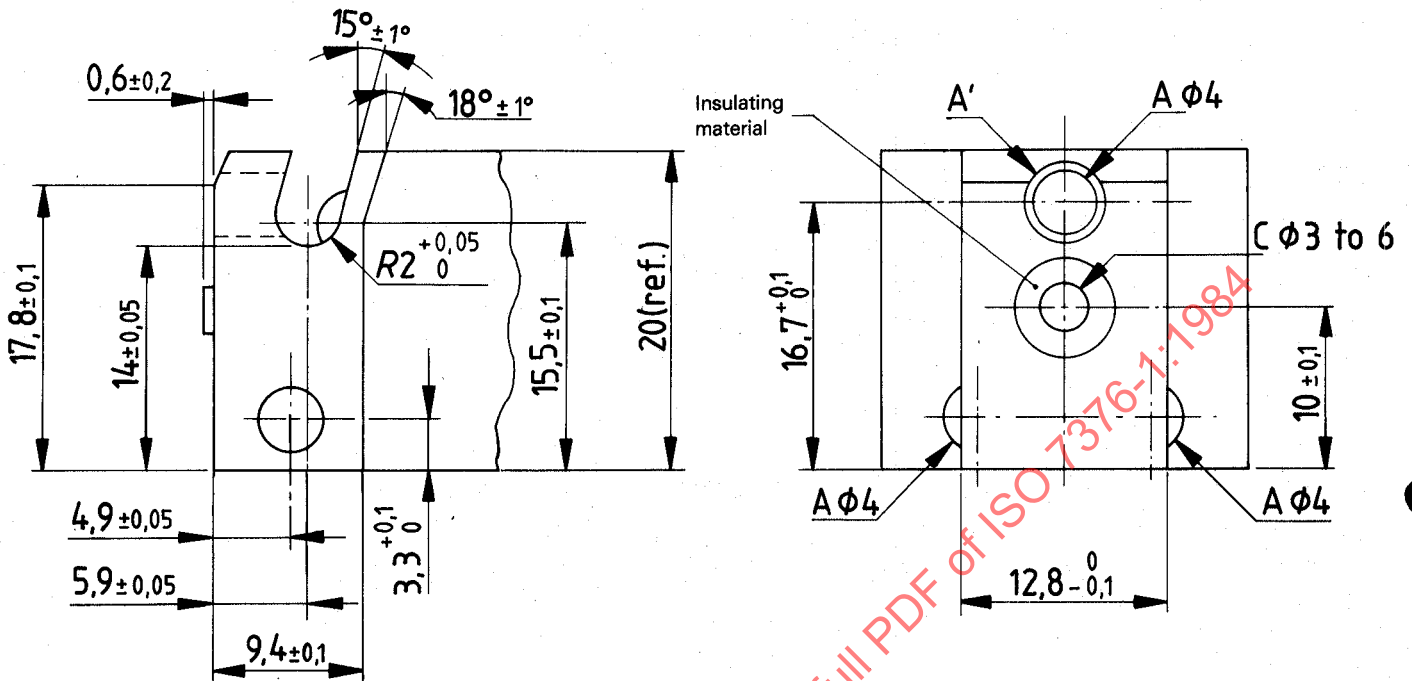
4 Blade fittings (hook-on)

Blade fittings shall be in accordance with the dimensions shown in figures 1a) and 1b). The three 4 mm diameter balls A shall be spring-loaded and one or more of these shall constitute the contact for the ground circuit between the lamp and the handle.

The central insulated contact (item C, which may be flat or domed in shape and 3 to 6 mm in diameter) shall be rigidly mounted.

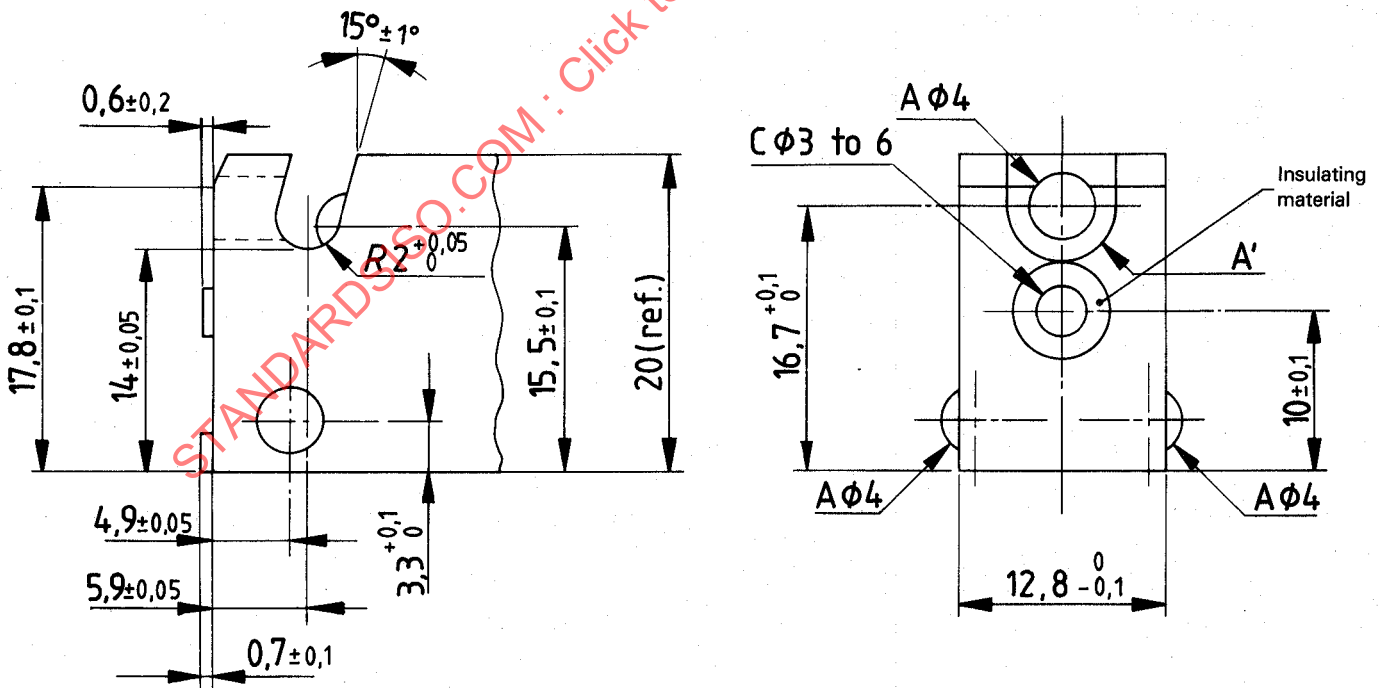
5 Handle fittings (hook-on)

Handle fittings shall be in accordance with the dimensions shown in figure 2. The hinge pin and/or areas round the slots (item B) shall constitute the contacts for the ground circuit. The insulated central contact (item D) shall be 3 to 4 mm in diameter and shall be spring-loaded so as to provide adequate contact pressure with the rigid central contact on the blade while in the operating position. The diameter of the insulating material shall be at least 7 mm.



NOTE — Where no dimensions are shown, minor modifications are permissible

Figure 1a) — Blade hook-on fittings



NOTES

- 1 A' may be a hole [figure 1a)] or a slot [figure 1b)] for installation of A.
- 2 Where no dimensions are shown, minor modifications are permissible.

Figure 1b) — Blade hook-on fitting (without shoulders)