

This is a preview of "ISO 13926-2:2011". [Click here to purchase the full version from the ANSI store.](#)

Second edition
2011-04-01

Pen systems —

Part 2:

Plunger stoppers for pen-injectors for medical use

Systèmes de stylos-injecteurs —

Partie 2: Bouchons-pistons pour stylos-injecteurs à usage médical



Reference number
ISO 13926-2:2011(E)

© ISO 2011

This is a preview of "ISO 13926-2:2011". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 13926-2:2011". [Click here to purchase the full version from the ANSI store.](#)

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Classification	1
4 Shape and dimensions	2
5 Designation	3
6 Material	3
7 Requirements	3
8 Labelling	4
Annex A (normative) Leakage test	5
Bibliography	7

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 13926-2 was prepared by Technical Committee ISO/TC 76, *Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use*.

This second edition cancels and replaces the first edition (ISO 13926-2:1999), which has been technically revised by

- aligning this International Standard with the ISO 8871 series;
- separating requirements on plunger stoppers (this part of ISO 13926) and seals; the latter are now completely covered by ISO 13926-3;
- revising Table 1 on dimensions of plunger stoppers;
- revising the requirements on material, hardness, freedom from leakage, initiating and sustaining forces;
- adding requirements on resistance to ageing.

ISO 13926 consists of the following parts, under the general title *Pen systems*:

- *Part 1: Glass cylinders for pen-injectors for medical use*
- *Part 2: Plunger stoppers for pen-injectors for medical use*
- *Part 3: Seals for pen-injectors for medical use*

This is a preview of "ISO 13926-2:2011". [Click here to purchase the full version from the ANSI store.](#)

Introduction

Primary packaging components made of elastomeric materials are an integral part of medicinal products. As such, the principles of current Good Manufacturing Practices (cGMP) are applicable to the manufacturing of these components.

Principles of cGMP are described in ISO 15378 and in GMP Guidelines published by the European Community^[4] and the United States of America^[5].