

# DRAFT AMENDMENT ISO 15002:2008/DAM 2

ISO/TC 121/SC 6

Secretariat: ANSI

Voting begins on:  
2020-01-03

Voting terminates on:  
2020-03-27

---

---

## Flow-metering devices for connection to terminal units of medical gas pipeline systems

### AMENDMENT 2

*Dispositifs de mesure de débit pour raccordement aux prises murales des systèmes de distribution de gaz médicaux*

AMENDEMENT 2

ICS: 11.040.10

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[ISO 15002:2008/DAmD 2](https://standards.iteh.ai/catalog/standards/sist/c42418e8-61d8-4022-846b-e18f73c28063/iso-15002-2008-damd-2)

<https://standards.iteh.ai/catalog/standards/sist/c42418e8-61d8-4022-846b-e18f73c28063/iso-15002-2008-damd-2>

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

This document is circulated as received from the committee secretariat.

**ISO/CEN PARALLEL PROCESSING**



Reference number  
ISO 15002:2008/DAM 2:2020(E)

© ISO 2020

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 15002:2008/DAmD 2](https://standards.iteh.ai/catalog/standards/sist/c42418e8-61d8-4022-846b-e18f73c28063/iso-15002-2008-damd-2)

<https://standards.iteh.ai/catalog/standards/sist/c42418e8-61d8-4022-846b-e18f73c28063/iso-15002-2008-damd-2>



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 121 *Anaesthetic and respiratory equipment* Subcommittee SC 6, *Medical supply systems*.

This second amendment amends ISO 15002:2008/Amd 1:2018 removes the text specified in amendment 1 and specifies that instead of the maximum flow, that can be delivered by the flow-metering device, being restricted that the maximum flow must be marked on the device.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 15002:2008/DAmD 2

<https://standards.iteh.ai/catalog/standards/sist/c42418e8-61d8-4022-846b-e18f73c28063/iso-15002-2008-damd-2>

# Flow-metering devices for connection to terminal units of medical gas pipeline systems

## AMENDMENT 2

### Add to 5.4.6.1 Scales and indicators:

“Flowmeters that can be adjusted to provide flows greater than that indicated on the scale shall be clearly marked with the maximum flow that can be delivered at the specified pipeline pressure (see 7.1.1).

NOTE high flows can be dangerous for patients, particularly neonatal and paediatric patients.

*Check compliance by visual inspection.* “

Delete change 2 specified in amendment 1 i.e.

### Remove:

### 2 Modification to 5.4.6.3 Accuracy of flow

The flow-metering device when the control valve is fully open shall not generate a flow higher than 3 l/min or 150% of the maximum flow specified by the manufacturer, whichever is higher.

### Replace with:

(standards.iteh.ai)

### Add to 5.4.7.1 Scale

ISO 15002:2008/DAm2

“5.4.7.1.3 Flow control devices that can be adjusted to provide flows greater than that indicated on the scale shall be clearly marked with the maximum flow that can be delivered at the specified pipeline pressure (see 7.1.1).

NOTE high flows can be dangerous for patients, particularly neonatal and paediatric patients.

*Check compliance by visual inspection.*”

Delete change 3 specified in amendment 1 i.e.

### Remove:

### 3 Modification to 5.4.7.3 Accuracy of flow

The flow-metering device when the control valve is fully open shall not generate a flow higher than 3 l/min or 150% of the maximum flow specified by the manufacturer, whichever is higher.

Replace 5.4.8.3.2 and 5.4.8.3.3 with:

“5.4.8.3.2 Flow controls for multiple orifice flow metering devices shall be designed so that they cannot be positioned between settings such that there is no flow.

*Check compliance by functional testing.*”

“5.4.8.3.3 It shall not be possible to set the flow control above the maximum setting.

*Check compliance by functional testing.*”

Replace change 4 specified in amendment 1 i.e.

### Remove:

#### 4 Modification to 5.4.8.3.3

Add after the last sentence:

"If the flow-metering device is set between adjacent flow settings, it shall not generate a flow exceeding 50% of the flow of the upper that can be set.

#### Replace with

"If the flow-metering device is set between adjacent flow settings, it shall not generate a flow exceeding 150% of the flow of the higher of the adjacent settings.

*Check compliance by functional testing."*

Add to 7.1.1 an additional bullet point:

— "the maximum flow when the valve is fully open and the pressure at which this flow is determined."

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 15002:2008/DAmD 2](https://standards.iteh.ai/catalog/standards/sist/c42418e8-61d8-4022-846b-e18f73c28063/iso-15002-2008-damd-2)

<https://standards.iteh.ai/catalog/standards/sist/c42418e8-61d8-4022-846b-e18f73c28063/iso-15002-2008-damd-2>