
Cryogenic vessels — Hoses

Réipients cryogéniques — Tuyaux flexibles

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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General requirements	2
4.1 Design and construction.....	2
4.2 Materials.....	3
4.3 Cleanliness.....	3
4.4 Mechanical properties.....	4
4.4.1 Burst pressure.....	4
4.4.2 Pressure cycles.....	4
4.4.3 Bending test (optional, upon request of purchaser).....	4
4.4.4 Resistance to abuse.....	4
4.4.5 Low temperature resistance.....	4
4.4.6 Leak tightness.....	4
4.4.7 Electrical properties.....	4
5 Hose sample tests	4
5.1 General.....	4
5.2 Non-destructive tests and inspection.....	6
5.2.1 Documentation of materials.....	6
5.2.2 Dimensional check.....	6
5.2.3 Cleanliness check.....	6
5.2.4 Pressure test.....	6
5.2.5 Leak test.....	6
5.2.6 Crushing test.....	6
5.3 Destructive tests.....	7
5.3.1 Hydraulic pressure cycling.....	7
5.3.2 Rolling bend cycling test.....	7
5.3.3 Hydraulic bursting test.....	7
5.3.4 Examination of sectional cut.....	7
6 Production testing	8
6.1 General.....	8
6.2 Pressure test.....	8
6.3 Leak test.....	8
7 Marking	8
8 Cleaning	8
9 Periodic examination	8
10 Test certificate	9
Annex A (informative) Typical hose assembly	10
Annex B (informative) Rolling bend cycling test for metallic hose assemblies and hose assemblies made of materials with a record of satisfactory use in cryogenic service	11
Annex C (informative) Rolling bend cycling test for hose assemblies constructed from materials or composites not commonly used in cryogenic service	13
Annex D (informative) Guidelines for periodic examination of transfilling hoses	15

Foreword

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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).

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This document was prepared by ISO/TC 220, *Cryogenic vessels*.

This second edition cancels and replaces the first edition (ISO 21012:2006), which has been technically revised.

This edition includes the following significant changes with respect to the previous edition:

- Subclause [4.2](#): Added “any austenitic stainless steel hoses shall be annealed after formation for hydrogen service.”;
- Subclause [4.4.3](#): Replaced shall with should;
- Subclause [4.4.3](#): Replaced 50 000 cycles with 10 000 cycles;
- Subclause [4.4.3](#): Added “This test is only required if the flexible hose is subject to multiple wide/significant moves when under pressure.”;
- Subclause [5.3.2.1](#): Replaced 50 000 cycles with 10 000 cycles;
- Subclause [5.3.2.2](#): Replaced 50 000 cycles with 10 000 cycles;
- [Annex B](#): Changed from Normative to Informative;
- [Annex C](#): Changed from Normative to Informative;
- [Annex C](#): Changed last sentence in second last paragraph to “Sufficient liquid nitrogen shall be used to ensure the flexible hose assembly reaches liquid nitrogen temperature.”.