



International
Standard

ISO 21013-1

**Cryogenic vessels — Pressure-relief
accessories for cryogenic service —**

Part 1:
Reclosable pressure-relief valves

AMENDMENT 1

*Réipients cryogéniques — Dispositifs de sécurité pour le service
cryogénique —*

Partie 1: Soupapes de sûreté pour service cryogénique

**Second edition
2021-12**

**AMENDMENT 1
2024-05**

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

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Cryogenic vessels — Pressure-relief accessories for cryogenic service —

Part 1: Reclosable pressure-relief valves

AMENDMENT 1

4.3.1

Replace the first two sentences in the first paragraph with the following:

Materials shall be either

- in conformance with an internationally recognized standard (see Annex A), or
- in conformance with this subclause.

Materials shall be compatible with the process fluid. Materials and combination of materials shall be selected such that galling, frictional heating, and galvanic corrosion are avoided.

Replace the first sentence in the second paragraph with the following:

For materials that are not in conformance with an internationally recognized standard (see Annex A), the materials shall be controlled by the manufacturer of the pressure-relief valve by a specification ensuring control of chemical content and physical properties and quality at least equivalent to an internationally recognized standard.

Annex

Add the following new Annex A:

Annex A
(normative)

Internationally recognized standards

Table A.1 — European materials

Specification number	Material grade	Material number	Material group ISO/TR 15608:2017
EN 10216-5	X5CrNi18-10	1.4301	8.1
EN 10216-5	X2CrNi19-11	1.4306	8.1
EN 10216-5	X2CrNi18-9	1.4307	8.1
EN 10216-5	X5CrNiMo17-12-2	1.4401	8.1
EN 10216-5	X2CrNiMo17-12-2	1.4404	8.1
EN 10216-5	X6CrNiTi18-10	1.4541	8.1
EN 10216-5	X6CrNiMoTi17-12-2	1.4571	8.1
EN 10217-7	X5CrNi18-10	1.4301	8.1
EN 10217-7	X2CrNi19-11	1.4306	8.1
EN 10217-7	X2CrNi18-9	1.4307	8.1
EN 10217-7	X5CrNiMo17-12-2	1.4401	8.1
EN 10217-7	X2CrNiMo17-12-2	1.4404	8.1
EN 10217-7	X6CrNiTi18-10	1.4541	8.1
EN 10217-7	X6CrNiMoTi17-12-2	1.4571	8.1
EN 10253-4	X5CrNi18-10	1.4301	8.1
EN 10253-4	X2CrNi19-11	1.4306	8.1
EN 10253-4	X2CrNi18-9	1.4307	8.1
EN 10253-4	X5CrNiMo17-12-2	1.4401	8.1
EN 10253-4	X2CrNiMo17-12-2	1.4404	8.1
EN 10253-4	X6CrNiTi18-10	1.4541	8.1
EN 10253-4	X6CrNiTi18-10	1.4571	8.1
EN 10272	X5CrNi18-10	1.4301	8.1
EN 10272	X2CrNi19-11	1.4306	8.1
EN 10272	X2CrNi18-9	1.4307	8.1
EN 10272	X5CrNiMo17-12-2	1.4401	8.1
EN 10272	X2CrNiMo17-12-2	1.4404	8.1
EN 10272	X6CrNiTi18-10	1.4541	8.1
EN 10272	X6CrNiTi18-10	1.4571	8.1
EN 10028-7	X5CrNi18-10	1.4301	8.1
EN 10028-7	X2CrNi19-11	1.4306	8.1
EN 10028-7	X2CrNi18-9	1.4307	8.1
EN 10028-7	X5CrNiMo17-12-2	1.4401	8.1
EN 10028-7	X2CrNiMo17-12-2	1.4404	8.1
EN 10028-7	X6CrNiTi18-10	1.4541	8.1
EN 10028-7	X6CrNiTi18-10	1.4571	8.1
EN 10088-1	X5CrNi18-10	1.4301	8.1