

ISO 21013-1:2021/FDAmd 1:2023(E)

ISO/TC 220

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Cryogenic vessels — Pressure-relief accessories for cryogenic service

**Part 1:
Reclosable pressure-relief valves — Amendment**

AMENDMENT 1

Réipients cryogéniques — Dispositifs de sécurité pour le service cryogénique

Partie 1: Soupapes de sûreté pour service cryogénique — Amendment

AMENDEMENT 1

FDIS stage

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Field Code Changed 1-2021-fdamd-1

~~Cryogenic vessels~~ Pressure-relief accessories for cryogenic service

Part 1: **Reclosable pressure-relief ~~valve~~ Amendment 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.~~

~~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