



Economic Commission for Europe**Inland Transport Committee****Working Party on the Transport of Dangerous Goods****Joint Meeting of the RID Committee of Experts and the
Working Party on the Transport of Dangerous Goods**

Bern, 16–20 March 2020

Item 5 (b) of the provisional agenda

**Proposals for amendments to RID/ADR/ADN
new proposals****RID/ADR 4.1.6.15 – standards for valve protection devices****Transmitted by the Government of Germany * *****Summary*

Executive summary:	The aim of this proposal is to clarify which standards may be used for valve protection devices that are new on the market.
Action to be taken:	Supplement the table in RID/ADR 4.1.6.15

Introduction

1. RID/ADR 4.1.6.15 lists standards for valve protection devices that have to be used for UN pressure receptacles to comply with the requirements of RID/ADR 4.1.6.8 (b) and (c). For other pressure receptacles, the provisions of RID/ADR 4.1.6 are deemed to be met if the standards relevant in each case from the table in RID/ADR 4.1.6.15 are used.
2. Some of the standards for valve protection devices listed in the table in RID/ADR 4.1.6.15 are old standards that have been withdrawn. This is to enable the continued use of valve protection devices placed on the market in accordance with these standards in the past.
3. However, this makes it possible for new valve protection devices for non-UN pressure receptacles not only to continue in use, but also means that they might continue to be manufactured and placed on the market in accordance with the old standards listed in RID/ADR 4.1.6.15. As a result, it is currently legal to manufacture and market valve protection devices in accordance with standard EN 962:1996 + A2:2000, even though this

* In accordance with the programme of work of the Inland Transport Committee for 2018-2019, (ECE/TRANS/WP.15/237, annex V, (9.2)).

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standard has been withdrawn and it does not (yet) require any relevant additional testing steps in accordance with standard EN ISO 11117:2008 + Cor. 1:2009.

4. This problem does not exist for UN pressure receptacles, as in this case RID/ADR 6.2.2.3 makes it mandatory to apply the current standard ISO 11117:2008 + A1:2009. However, RID/ADR 6.2.4.1 does not list any standard for valve protection devices.

5. This problem does not exist for shut-off valves according to the first paragraph of RID/ADR 4.1.6.8 and for valves covered by standard ISO 16111:2008, because for the design type approval, it must be ensured that the applicable standard in accordance with RID/ADR 6.2.4.1 or RID/ADR 6.2.2.3 is followed.

Proposal

6. It is proposed that a column corresponding to the right-hand column of the tables in RID/ADR 6.2.2.1 be added to the table in RID/ADR 4.1.6.15.

7. It is also proposed that for the standards applicable to valves with inherent protection, the reference to the applicable paragraph of the standard should be corrected (replace the currently referenced annex on the impact test with the actual requirement with the acceptance criterion in the standard which, in some standards, refers to an annex on carrying out the test), or should be indicated for the first time.

8. The table in RID/ADR 4.1.6.15 would then read as follows:

Comments: The amendments to RID/ADR 4.1.6.15 planned for the 2021 revision of RID/ADR have already been taken into account.

*Amended and new texts are shown in **red** and are underlined.*

Applicable paragraphs	Reference	Document title	Applicable to manufacturing
4.1.6.2	EN ISO 11114-1:2012 + A1:2017	Gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 1: Metallic Materials	=
	EN ISO 11114-2:2013	Gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 2: Non-metallic Materials	=
4.1.6.4	either: ISO 11621:1997 or EN ISO 11621:2005	Gas cylinders – Procedures for change of gas service	=
4.1.6.8 Valves with inherent protection	Annex A Paragraph 4.6.2 of EN ISO 10297:2006 or Annex A paragraph 5.5.2 of EN ISO 10297:2014 or Annex A paragraph 5.5.2 of EN ISO 10297:2014 + A1:2017	Gas cylinder – Refillable gas cylinder valves – Specification and type testing	See 6.2.4.1
	Paragraph 5.3.8 of EN 13152:2001 + A1:2003	Testing and specifications of LPG cylinder valves – self closing	See 6.2.4.1
	Paragraph 5.3.7 of EN 13153:2001 + A1:2003	Specifications and testing of LPG cylinder valves – Manually operated	See 6.2.4.1
	Paragraph 5.9 of EN ISO 14245:2010	Gas cylinders – Specifications and testing of LPG cylinder valves – Self closing (ISO 14245:2006)	See 6.2.4.1
	Paragraph 5.10 of EN ISO 15995:2010	Gas cylinders – Specifications and testing of LPG cylinder valves – Manually operated (ISO 15995:2006)	See 6.2.4.1
	Paragraph 5.4.2 of EN ISO 17879:2017	Gas cylinders – Self-closing cylinder valves - Specification and type testing	See 6.2.4.1
4.1.6.8 (b) and (c)	either: ISO 11117:1998	Gas Cylinders – Valve protection caps and valve guards for industrial and medical gas cylinders – Design construction and tests	Until 31 December 2010
	or EN ISO 11117:2008 + Cor 1:2009	Gas Cylinders – Valve protection caps and valve guards for industrial and medical gas cylinders – Design construction and tests	Until further notice
	EN 962:1996 + A2:2000	Valve protection caps and valve guards for industrial and medical gas cylinders – Design, construction and tests	Until 31 December 2010
	ISO 16111:2008	Transportable gas storage devices – Hydrogen absorbed in reversible metal hydride	See 6.2.2.3

Justification

9. These amendments clarify matters in terms of marketing new valve protection devices for non-UN pressure receptacles.