

**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

Geneva, 11-21 September 2007  
Item 6 (a) of the provisional agenda

**PROPOSALS FOR AMENDMENTS TO RID/ADR/ADN**

**Chapter 6.2 - Transitional provisions for gas receptacles designed, constructed and tested  
according to standards**

**Note by the secretariat**

1. Reference is made to document ECE/TRANS/WP.15/AC.1/2007/55.
2. If the principle proposed by the secretariat in the above document is adopted, the Joint Meeting may wish to adopt the same approach for pressure receptacles constructed according to standards. The secretariat has prepared the attached table but did not have time to check all the dates and the Joint Meeting may wish, in such a case, to complete the table and to amend the text of 1.6.2.4 and the introductory text of 6.2.4 in line with the texts proposed for 1.6.3.31 and 6.8.2.6 in ECE/TRANS/WP.15/AC.1/2007/55.

## 6.2.4 Requirements for non-UN pressure receptacles designed, constructed and tested according to standards

The requirements of 6.2.1 and 6.2.3 are considered to have been complied with if the following standards, as relevant, are applied:

**NOTE:** *Persons or bodies identified in standards as having responsibilities in accordance with RID/ADR shall meet the requirements of RID/ADR.*

Reference	Title of document	Applicable sub-sections and paragraphs	Date of introduction in RID/ADR	
(1)	(2)	(3)	(4)	(5)
<i>for materials</i>				
EN 1797-1:1998	Cryogenic vessels – Gas/material compatibility	6.2.1.2	2001 <i>was replaced in 2003 as follows:</i>	
EN 1797:2001	Cryogenic vessels – Gas/material compatibility	6.2.1.2	2003	
EN ISO 11114-1:1997	Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 1: Metallic materials	6.2.1.2	2001	
EN ISO 11114-2:2000	Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 2: Non-metallic materials	6.2.1.2	2001	
EN ISO 11114-4:2005 (except method C in 5.3)	Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 4: Test methods for selecting metallic materials resistant to hydrogen embrittlement	6.2.1.2	2007	
EN 1252-1:1998	Cryogenic vessels – Materials - Part 1: Toughness requirements for temperature below -80 °C	6.2.1.2	2001 <i>was deleted in 2003</i>	
<i>for design and construction (in ADR 2001, was Cylinders)</i>				
Annex I, Parts 1 to 3 to 84/525/EEC	Council directive on the approximation of the laws of the Member States relating to seamless steel gas cylinders, published in the Official Journal of the European Communities No. L 300 from 19.11.1984.	6.2.3.1 and 6.2.3.4	2007	

Reference	Title of document	Applicable sub-sections and paragraphs	Date of introduction in RID/ADR	
(1)	(2)	(3)	(4)	(5)
Annex I, Parts 1 to 3 to 84/526/EEC	Council directive on the approximation of the laws of the Member States relating to seamless, unalloyed aluminium and aluminium alloy gas cylinders, published in the Official Journal of the European Communities No. L 300 from 19.11.1984.	6.2.3.1 and 6.2.3.4	2007	
Annex I, Parts 1 to 3 to 84/527/EEC	Council directive on the approximation of the laws of the Member States relating to welded unalloyed steel gas cylinders, published in the Official Journal of the European Communities No. L 300 from 19.11.1984.	6.2.3.1 and 6.2.3.4	2007	
EN 1442:1998	Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) – Design and construction	6.2.3.1 and 6.2.3.4	2001 <i>Reference to 6.2.1.7 was deleted in 2003</i>	
EN 1442:1998 + A2:2005	Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) – Design and construction	6.2.3.1 and 6.2.3.4	2007	
EN 1800:1998 + AC:1999	Transportable gas cylinders – Acetylene cylinders – Basic requirements and definitions	6.2.3.1.5	2001 <i>In 2009, replaced with following:</i>	
<a href="#">EN 1800:2006</a>	<a href="#">Transportable gas cylinders - Acetylene cylinders - Basic requirements, definitions and type testing</a>	<a href="#">6.2.3.1.5</a>	2009	
EN 1964-1:1999	Transportable gas cylinders – Specifications for the design and construction of refillable transportable seamless steel gas cylinders of capacity from 0.5 litres up to 150 litres – Part 1: Cylinders made of seamless steel with a Rm value of less than 1 100 MPa	6.2.3.1 and 6.2.3.4	2001	
EN 1975:1999 (except Annex 6)	Transportable gas cylinders – Specifications for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0.5 litres up to 150 litres	6.2.3.1 and 6.2.3.4	2001 <i>Replace in 2005 with following</i>	

Reference	Title of document	Applicable sub-sections and paragraphs	Date of introduction in RID/ADR	
(1)	(2)	(3)	(4)	(5)
EN 1975:1999 + A1:2003	Transportable gas cylinders – Specifications for the design and construction of refillable transportable seamless aluminium and aluminium alloy gas cylinders of capacity from 0.5 litres up to 150 litres	6.2.3.1 and 6.2.3.4	2005	
EN ISO 11120:1999	Gas cylinders – Refillable seamless steel tubes for compressed gas transport of water capacity between 150 litres and 3 000 litres – Design, construction and testing	6.2.3.1 and 6.2.3.4	2001	
EN 1964-3: 2000	Transportable gas cylinders – Specifications for the design and construction of refillable transportable seamless steel gas cylinders of capacity from 0.5 litre up to 150 litres – Part 3: Cylinders made of stainless steel	6.2.3.1 and 6.2.3.4	2001	
EN 12862: 2000	Transportable gas cylinders – Specifications for the design and construction of refillable transportable welded aluminium alloy gas cylinders	6.2.3.1 and 6.2.3.4	2001	
EN 1251-1:2000	Cryogenic vessels - Transportable, vacuum insulated, of not more than 1 000 litres volume - Part 1: Fundamental requirements	Referred to 6.2.1.7.1 (marking of receptacles)	2001 <i>Deleted in 2003</i>	
EN 1251-2:2000	Cryogenic vessels – Transportable, vacuum insulated, of not more than 1 000 litres volume – Part 2: Design, fabrication, inspection and testing	6.2.3.1 and 6.2.3.4	2003	
EN 1251-3:2000	Cryogenic vessels - Transportable, vacuum insulated, of not more than 1 000 litres volume - Part 3: Operational requirements	Referred to 6.2.1.6 (Periodic inspection)	2001 <i>under heading Cylinders, moved under heading Periodic inspection and tests in 2005</i>	
EN 12257:2002	Transportable gas cylinders – Seamless, hoop wrapped composite cylinders	6.2.3.1 and 6.2.3.4	2005	
EN 12807:2001 (except Annex A)	Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) – Design and construction	6.2.3.1 and 6.2.3.4	2005	

Reference	Title of document	Applicable sub-sections and paragraphs	Date of introduction in RID/ADR	
(1)	(2)	(3)	(4)	(5)
EN 1964-2:2001	Transportable gas cylinders – Specification for the design and construction of refillable transportable seamless steel gas cylinders of water capacities from 0.5 litre up to and including 150 litre – Part 2: Cylinders made of seamless steel with a $R_m \geq 1100$ MPa	6.2.3.1 and 6.2.3.4	2005	
EN 13293:2002	Transportable gas cylinders – Specification for the design and construction of refillable transportable seamless normalised carbon manganese steel gas cylinders of water capacity up to 0.5 litre for compressed, liquefied and dissolved gases and up to 1 litre for carbon dioxide	6.2.3.1 and 6.2.3.4	2005	
EN 13322-1:2003	Transportable gas cylinders – Refillable welded steel gas cylinders – Design and construction – Part 1: Welded steel	6.2.3.1 and 6.2.3.4	2005 <i>A1:2006 added in 2007</i>	
EN 13322-1:2003 + A1:2006	Transportable gas cylinders – Refillable welded steel gas cylinders – Design and construction – Part 1: Welded steel	6.2.3.1 and 6.2.3.4	2007	
EN 13322-2:2003	Transportable gas cylinders – Refillable welded stainless steel gas cylinders – Design and construction – Part 2: Welded stainless steel	6.2.3.1 and 6.2.3.4	2005 <i>A1:2006 added in 2007</i>	
EN 13322-2:2003 + A1:2006	Transportable gas cylinders – Refillable welded stainless steel gas cylinders – Design and construction – Part 2: Welded stainless steel	6.2.3.1 and 6.2.3.4	2007	
EN 12245:2002	Transportable gas cylinders – Fully wrapped composite cylinders	6.2.3.1 and 6.2.3.4	2005	
EN 12205:2001	Transportable gas cylinders – Non refillable metallic gas cylinders	6.2.3.1, 6.2.3.4 and 6.2.3.9	2005	
EN 13110:2002	Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) – Design and construction	6.2.3.1, 6.2.3.4 and 6.2.3.9	2005	

Reference	Title of document	Applicable sub-sections and paragraphs	Date of introduction in RID/ADR	
(1)	(2)	(3)	(4)	(5)
EN 14427:2004	Transportable refillable fully wrapped composite cylinders for liquefied petroleum gases – Design and construction <i>NOTE: This standard applies only to cylinders equipped with pressure relief valves.</i>	6.2.3.1, 6.2.3.4 and 6.2.3.9	2005 <i>A1:2005 and Note 2 added in 2007</i>	
EN 14427:2004 + A1:2005	Transportable refillable fully wrapped composite cylinders for liquefied petroleum gases – Design and construction <i>NOTE 1: This standard applies only to cylinders equipped with pressure relief valves.</i> <i>NOTE 2: In 5.2.9.2.1 and 5.2.9.3.1, both cylinders shall be subject to the burst test when they show damage equal to or worse than the rejection criteria.</i>	6.2.3.1, 6.2.3.4 and 6.2.3.9	2007 ( <i>A1:2005 and Note 2</i> )	
EN 14208:2004	Transportable gas cylinders – Specification for welded pressure drums up to 1000 litres capacity for the transport of gases – Design and construction	6.2.3.1, 6.2.3.4 and 6.2.3.9	2005	
EN 14140:2003	Transportable refillable welded steel cylinders for Liquefied Petroleum Gas (LPG) – Alternative design and construction	6.2.3.1, 6.2.3.4 and 6.2.3.9	2005 <i><a href="#">In 2009, will be replaced by the following</a></i>	
<a href="#">EN 14140:2003 + A1:2006 (with the exemption of the Note to Annex A [if not deleted when published])</a>	<a href="#">LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Alternative design and construction</a>	<a href="#">6.2.3.1, 6.2.3.4 and 6.2.3.9</a>	<a href="#">Will be included in 2009</a>	
EN 13769:2003	Transportable gas cylinders – Cylinder bundles – Design, manufacture, identification and testing	6.2.3.1, 6.2.3.4 and 6.2.3.9	2005 <i>A1:2005 added in 2007</i>	
EN 13769:2003 + A1:2005	Transportable gas cylinders – Cylinder bundles – Design, manufacture, identification and testing	6.2.3.1, 6.2.3.4 and 6.2.3.9	2007	
<a href="#">EN 14638-1:2006</a>	<a href="#">Transportable gas cylinders – Refillable welded receptacles of a capacity not exceeding 150 litres – Part 1: Welded austenitic stainless steel cylinders made to a design justified by experimental methods</a>	<a href="#">6.2.3.1 and 6.2.3.4</a>	<a href="#">Will be included in 2009</a>	

Reference	Title of document	Applicable sub-sections and paragraphs	Date of introduction in RID/ADR	
(1)	(2)	(3)	(4)	(5)
<a href="#">EN 14893:2006[+AC:2007]</a>	<a href="#">LPG equipment and accessories – Transportable LPG welded steel pressure drums with a capacity between 150 litres and 1 000 litres</a>	<a href="#">6.2.3.1 and 6.2.3.4</a>	<a href="#">Will be included in 2009</a>	
<i>for closures</i>				
EN 849:1996 (except Annex A)	Transportable gas cylinders – Cylinder valves: Specification and type testing	6.2.3.1	2001 <i>Replaced in 2003 as follows</i>	
EN 849:1996/A2:2001	Transportable gas cylinders – Cylinder valves: Specification and type testing	6.2.3.1	2003. <a href="#">In 2007 replaced with following</a>	
EN ISO 10297: 2006	Transportable gas cylinders – Cylinder valves: Specification and type testing	6.2.3.1	2007	
EN 13152:2001	Specifications and testing of LPG – cylinder valves – Self closing	6.2.3.1	2005	
EN 13153:2001	Specifications and testing of LPG – cylinder valves – Manually operated	6.2.3.1	2005	
<i>for periodic inspection and test</i>				
EN 1251-3: 2000	Cryogenic vessels – Transportable, vacuum insulated, of not more than 1 000 litres volume – Part 3: Operational requirements	6.2.3.5	<i>Under this heading since 2005 (before was under heading Cylinders)</i>	
EN 1968:2002 (except Annex B)	Transportable gas cylinders – Periodic inspection and testing of seamless steel gas cylinders	6.2.3.5	2005 <i>A1:2005 added in 2007</i>	
EN 1968:2002 + A1:2005 (except Annex B)	Transportable gas cylinders – Periodic inspection and testing of seamless steel gas cylinders	6.2.3.5	2007	
EN 1802:2002 (except Annex B)	Transportable gas cylinders – Periodic inspection and testing of seamless aluminium alloy gas cylinders	6.2.3.5	2005	
EN 12863:2002	Transportable gas cylinders – Periodic inspection and maintenance of dissolved acetylene cylinders <i>NOTE: In this standard "initial inspection" is to be understood as the "first periodic inspection" after final approval of a new acetylene cylinder.</i>	6.2.3.5	2005 <i>A1:2005 added in 2007</i>	

Reference	Title of document	Applicable sub-sections and paragraphs	Date of introduction in RID/ADR	
(1)	(2)	(3)	(4)	(5)
EN 12863:2002 + A1:2005	Transportable gas cylinders – Periodic inspection and maintenance of dissolved acetylene cylinders <i>NOTE: In this standard "initial inspection" is to be understood as the "first periodic inspection" after final approval of a new acetylene cylinder.</i>	6.2.3.5	2007	
EN 1803:2002 (except Annex B)	Transportable gas cylinders – Periodic inspection and testing of welded steel gas cylinders	6.2.3.5	2005	
EN ISO 11623:2002 (except clause 4)	Transportable gas cylinders – Periodic inspection and testing of composite gas cylinders	6.2.3.5	2005	
EN 14189:2003	Transportable gas cylinders – Inspection and maintenance of cylinder valves at time of periodic inspection of gas cylinders	6.2.3.5	2005	
<a href="#">EN 14876:2007</a>	<a href="#">Transportable gas cylinders - Periodic inspection and testing of welded steel pressure drums</a>	<del>6.2.1-6.2.3.5</del>	<i>Will be included in 2009</i>	
<a href="#">EN 14912:2005</a>	<a href="#">LPG equipment and accessories – Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders</a>	<del>6.2.1-6.2.3.5</del>	<i>Will be included in 2009</i>	
<i>For marking (2001 deleted in 2003)</i>				
EN 1089-1:1996			2001 <i>Deleted in 2003</i>	

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