

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on the Transport of Dangerous Goods

Joint Meeting of the RID Safety Committee and the Working Party on the Transport of Dangerous Goods
(Bern, 24-28 March 2003)

Standards Working Group of the Joint Meeting ADR/RID

Transmitted by the European Committee for Standardization (CEN)

2nd meeting, 24-26 March 2003, UPI -Berne

Work document 1: list of standards submitted by CEN in Dispatch 3 (letter dated 9 January 2003)

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 13322-1	Transportable gas cylinders – Refillable welded steel gas cylinders – Design and construction – Part 1: Welded steel	6.2.2 cylinders	6.2.1.1 and 6.2.1.5
<p>Comments from members of the Joint Meeting: <u>Finland:</u></p> <ul style="list-style-type: none"> a) In the table 1 in 8.1 the references should be checked. b) In 12 there is a reference to EN 1089-1. In the ADR there is not anymore the reference to that standard. It has to be taken care of that the markings are in compliance with the ADR requirements. <p>Comments from CEN consultant:</p> <ul style="list-style-type: none"> a) the cross-reference numbers have been corrected in the final published version.. b) The proposed applicable section do not include 6.2.17 Markings, and the safeguard sentence in the Foreword applies 			
Decision of the Standards Working Group: Accepted		Rejected	

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 13322-2	Transportable gas cylinders – Refillable welded stainless steel gas cylinders – Design and construction – Part 2: Welded stainless steel	6.2.2 cylinders	6.2.1.1 and 6.2.1.5
<p>Comments from members of the Joint Meeting: <u>Finland:</u> same comments as for prEN 13322-1 Comments from CEN consultant: see prEN 13322-2</p>			
Decision of the Standards Working Group: Accepted		Rejected	

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 13769	Transportable gas cylinders – Cylinder bundles – Design, manufacture, identification and testing	6.2.2 bundles of cylinders	6.2.1.1, 6.2.1.5 and 6.2.1.7
<p>Comments from members of the Joint Meeting: <u>Finland:</u> a) In third paragraph in 4.2.2 it's not clear and exact what value the lifting eyes have to stand. Could it be possible to specify that paragraph? Comments from the CEN consultant: a) Comment on technical content: paragraph 3 in combination with paragraph 2 is clear to me: you split the design load (twice the gross weight) between 2 eyes instead of 4 and with an angle of 45°</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 13807	Transportable gas cylinders – Battery vehicles – Design, manufacture, identification and testing	6.8.2.6	6.8.2.1 and 6.8.2.4 (and 6.8.3.1 and 6.8.3.4)
<p>Comments from members of the Joint Meeting: <u>Finland:</u> a) In 4.6.4 mentioned self-closing valve that may be operated remotely and which closes automatically should also apply to the compressed flammable gas (such as hydrogen). Comments from the CEN consultant: a) In ADR 6.8.3.2.3 the requirement is for liquefied gases and not for compressed gases.</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
EN 13365-2002	Transportable gas cylinders – Cylinder bundles for permanent and liquefied gases (excluding acetylene) – Inspection at the time of filling		
<p>Comments from members of the Joint Meeting: Comments from the CEN consultant:</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 14189	Transportable gas cylinders – Inspection and maintenance of cylinder valves at time of periodic inspection of gas cylinders	6.2.2	6.2.1.6

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
<p>Comments from members of the Joint Meeting:</p> <p>Comments from the CEN consultant: Provisionally accepted at 1st meeting in Bonn (see item D1 of annex of report)</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN ISO 16467	Packaging – Transport packaging for dangerous goods – Test methods for IBCs		
<p>Comments from members of the Joint Meeting:</p> <p>Comments from the CEN consultant: The Std WG didn't consider future standards on Packagings at its first meeting because they are related to provisions of the Model Regulations. The UN Committee should decide first on the future of these standards (see item D2 of annex of report)</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN ISO 16101	Packaging – Transport packaging for dangerous goods – Plastics compatibility testing		
<p>Comments from members of the Joint Meeting:</p> <p>Comments from the CEN consultant: The Std WG didn't consider future standards on Packagings at its first meeting because they are related to provisions of the Model Regulations. The UN Committee should decide first on the future of these standards (see item D2 of annex of report)</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 14398-2	Cryogenic vessels – Large transportable non-vacuum insulated vessels – Part 2: Design, fabrication, inspection and testing		

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
<p>Comments from members of the Joint Meeting: <u>Germany:</u></p> <ul style="list-style-type: none"> a) In the standard should be used ADR terms e.g. in 3.1.7 “ maximum allowable pressure” transfer in ADR term “maximum working pressure”. b) In chapter 4.2.9 Insulation there are described no properties as an additional protection against damage for reducing the wall thickness of the tank. So the paragraph 6.8.2.1.19 ADR has to be excluded in the reference. c) In 4.3.5.1.3 there is also a calculation mode for e.g. spherical shells. This leads to thinner wall thicknesses than to other shells (see equation in 6.8.2.1.17 ADR). All forms of shells including ends shall have the same minimum thickness regarding this formulae. Therefore 6.8.2.1.17 ADR has to be excluded in the reference. d) In annex C there are some wrong cross references in table C.2. <p>Comments from the CEN consultant:</p> <ul style="list-style-type: none"> a) the definition of max allowable pressure refers to the design pressure (or the “calculation pressure” in ADR) I see no difference b) agree, the table for minimum wall thickness comes from EN13530-2 for double wall vacuum insulated vessels. c) Agree, same issue as for EN 13530-2 and same solution, exclusion of 6.8.2.1.17 d) Agree. Has probably been picked up by the CEN technical editors before publishing. 			
Decision of the Standards Working Group: Accepted		Rejected	
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 13110	Transportable refillable welded aluminium cylinders for liquefied petroleum gas (LPG) – Design and construction	6.2.2. cylinders	6.2.1.1, 6.2.1.5 and 6.2.1.7
<p>Comments from members of the Joint Meeting: <u>Finland:</u></p> <ul style="list-style-type: none"> a) In 5.5 it should be taken into account the minimum wall thickness of the pressure receptacle in 6.2.3.2.3 in the ADR. <p>Comments from the CEN consultant:</p> <ul style="list-style-type: none"> a) All standards for gas cylinders include a linear formula that is bound to give different results than a step formula; the formula used in this standard is the same as in EN 12806 already referred to in 6.2.2. 			
Decision of the Standards Working Group: Accepted		Rejected	
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 14140	Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) – Alternative design and construction	6.2.2 cylinders	6.2.1.1, 6.2.1.5 and 6.2.1.7
<p>Comments from members of the Joint Meeting:</p> <p>Comments from the CEN consultant:</p>			
Decision of the Standards Working Group: Accepted		Rejected	
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 13152:2001/prA	Specifications and testing for liquefied petroleum gas (LPG) –	6.2.2 valves	6.2.1.6

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
1	cylinder valves-self closing		
<p>Comments from members of the Joint Meeting:</p> <p>Comments from the CEN consultant: Already mentioned at previous meeting (see proposal 13 in Annex 1 of the report)</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 13153:2001/prA 1	Specifications and testing for liquefied petroleum gas (LPG) – cylinder valves-manually operated	6.2.2 valves	6.2.1.6
<p>Comments from members of the Joint Meeting:</p> <p>Comments from the CEN consultant: Already mentioned at previous meeting (see proposal 14 in Annex 1 of the report)</p> <p>Decision of the Standards Working Group: Accepted Rejected</p>			
Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
prEN 14025	Tanks for the transport of dangerous goods – Metallic pressure tanks – Design and Construction	6.2.2 maint	6.2.1.6

Reference	Title of document	Where to refer in ADR/RID	Applicable sub-sections and paragraphs
Comments from members of the Joint Meeting:			
<u>Finland:</u>			
<ul style="list-style-type: none"> a) In 3.2 for p_{vap} there ought to take into account the requirements of 4.3.3.2.3 in ADR for class 2 (vapour pressure in 60 C and 65 C). For other tanks the calculation basics are -20 C and +50 C. b) In note in 5.1 there is a reference to the Annex A which have direct texts of the ADR and RID. Is that necessary to have this Annex A? c) In 5.3 there is a reference to standard for protection of the shells of road tankers. It could be better to refer directly to relevant requirements of ADR. d) We would like to ask if the formulas for the f_d /MWP in the table 1 in 6.2 are according to the ADR? e) In 6.3.3.4 the thickness of the ends may be less than the thickness of the wall which is against the principles of the ADR. According to the ADR the thickness of the ends of the shell shall be at least equal to the thickness of the wall. We propose the exception of 6.8.2.1.17 from 6.8.2.1 in the reference table to the ADR. f) we would like to see that somewhere in this standard it is clearly indicated that the welding coefficient is 1,0. 			
Comments from the CEN consultant:			
<ul style="list-style-type: none"> a) the definition says: <i>...at 50°C or at the design temperature, whichever is the higher;</i> The test pressures in the tables of 4.3.3.2.5 take into account the temp. of 60°C and 65°C; b) EN14025 has a different approach to the other standards; the user is supposed to consider in parallel the requirements of the standard <u>and</u> the requirements of 6.8 and to adopt the most stringent output; therefore it would be not user-friendly NOT to have the requirements of ADR/RID in the same document. c) The reference to Annex C of EN 13094 is useful to compare the strength of different sandwich constructions. d) The max .stress combinations are lower or identical to the ones defined in 6.8.2.1.6 e) Agree but the approach taken in the standard (see b) to adopt the most stringent result eliminates that possibility; see flow chart in 6.1 illustrated with example in Annex B. f) 			
Decision of the Standards Working Group: Accepted		Rejected	
