



# Standard Specification for Warnings on Refillable CO<sub>2</sub> Cylinders Used In the Sport of Paintball<sup>1</sup>

This standard is issued under the fixed designation F2553; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers warnings used on refillable CO<sub>2</sub> cylinders with a threaded interface used in the sport of paintball.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

## 2. Significance and Use

2.1 This specification specifies the minimum warnings and instructions that are to be provided on the CO<sub>2</sub> cylinder itself.

## 3. Conformance

3.1 Paintball CO<sub>2</sub> cylinders shall not, either by label or other means, indicate conformance with this specification unless, at the time of manufacture, they conform with all applicable requirements contained herein.

## 4. Product Marking

4.1 Refillable CO<sub>2</sub> cylinders used in the sport of paintball that utilize a pin valve, which is of a design such that if the value is unscrewed from the cylinder the CO<sub>2</sub> gas under pressure is immediately released, shall be prominently and durably marked to convey the following cautionary statement:

4.1.1 A signal word such as “WARNING” or “DANGER”.

4.1.2 A warning that the cylinder can fly off with enough force to kill if the valve unscrews from the cylinder.

4.1.3 Instructions to look at valve when removing the cylinder.

4.1.4 Instructions to stop if valve starts to unscrew from the cylinder.

4.1.5 Instructions to screw it back on and immediately contact the manufacturer for instructions for repair if the valve does start to unscrew from the cylinder.

4.1.6 Markings must include a graphic similar to that shown in Fig. 1.

4.2 All CO<sub>2</sub> cylinders used in the sport of paintball shall be prominently and durably marked to convey the following:

4.2.1 A warning that the cylinder is an explosion hazard.

4.2.2 Notice that improper use, filling, storage or disposal may result in property damage, serious personal injury, or death.

4.2.3 Notice that the cylinder must be filled only by properly trained personnel in accordance with CGA Pamphlets P-1, C-6, G-6.8, and AV-7.<sup>2</sup>

4.2.4 Notice that valves must be installed ~~and removed~~ and repaired only by trained personnel.

4.2.5 Instructions to not exceed the cylinder’s marked CO<sub>2</sub> capacity.

4.2.6 Notice to not expose to temperatures exceeding 130°F when pressurized.

4.2.7 Notice to not use caustic cleaners or strippers.

4.2.8 Instructions to not modify ~~or the valve the~~ or cylinder in any way.

4.2.9 Notice to not remove or cover the label.

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F08.24 on Paintball and Equipment.

Current edition approved May 1, 2011 April 1, 2016. Published June 2011 April 2016. Originally approved in 2006. Last previous edition approved in 2008 2011 as F2553 – 08 F2553 – 11. DOI: 10.1520/F2553-11-10.1520/F2553-16.

<sup>2</sup> The sole source of supply of the apparatus known to the committee at this time is Compressed Gas Association, 4221 Walney Road, 5<sup>th</sup> Floor, Chantilly, Virginia 20151-2923. If you are aware of alternative suppliers, please provide this information to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee,<sup>1</sup> which you may attend.