



Standard Specification for Paintball Marker Threaded-Propellant Source Interface¹

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1. Scope

1.1 This specification covers the male and female threaded connectors used to interface a propellant source with a normal working output pressure of 10 342 kPa (1800 psig) or less to a paintball marker.

1.2 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.

1.3 *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. Referenced Documents

2.1 *ASTM Standards:*²

[D2240 Test Method for Rubber Property—Durometer Hardness](#)

[F2272 Specification for Paintball Markers](#)

2.2 *ANSI Standard:*³

[ANSI Y14.5M–1994 Dimensioning and Tolerancing](#)

2.3 *CGA Standard:*⁴

[CGA-320 .825-14NGO-RH-EXT \(Flat Nipple\)](#)

2.4 *Federal Standard:*⁵

[FED-STD-H28/9A 24 March 1989 Federal Standard Screw-Thread Standards for Federal Services Section 9 Gas Cylinder Valve Outlet and Inlet Threads](#)

2.5 *Military Standard:*⁵

[MS28775 O-Ring Dash Sizes](#)

3. Connector Gender Assignment

3.1 The female connector is that connector which is configured as part of the paintball marker conforming to Specification [F2272](#).

3.2 The male connector is that connector which is configured as part of the propellant source.

4. Materials and Manufacture

4.1 The male and female connectors shall be made from materials that are compatible with CO₂, compressed air, or gaseous nitrogen. The materials and processes used to manufacture male and female connectors shall result in items with mechanical strength sufficient to pass a 20 684-kPa (3000-psig) proof pressure check without failure or any degradation to function.

4.2 The O-ring seal shall be made from an elastomer compatible with CO₂, compressed air, or gaseous nitrogen. The O-ring seal shall have a hardness that will register a Type A durometer reading of 90 ± 5 . The O-ring shall conform dimensionally to MS28775-015 and conform to Test Method [D2240](#).

¹ 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.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁴ Available from Compressed Gas Association (CGA), 1725 Jefferson Davis Hwy., Suite 1004, Arlington, VA 22202-4102.

⁵ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.