Paintball CO2 Pin Valve

Overall Technical Parameters

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Application: Paintball CO2 Systems

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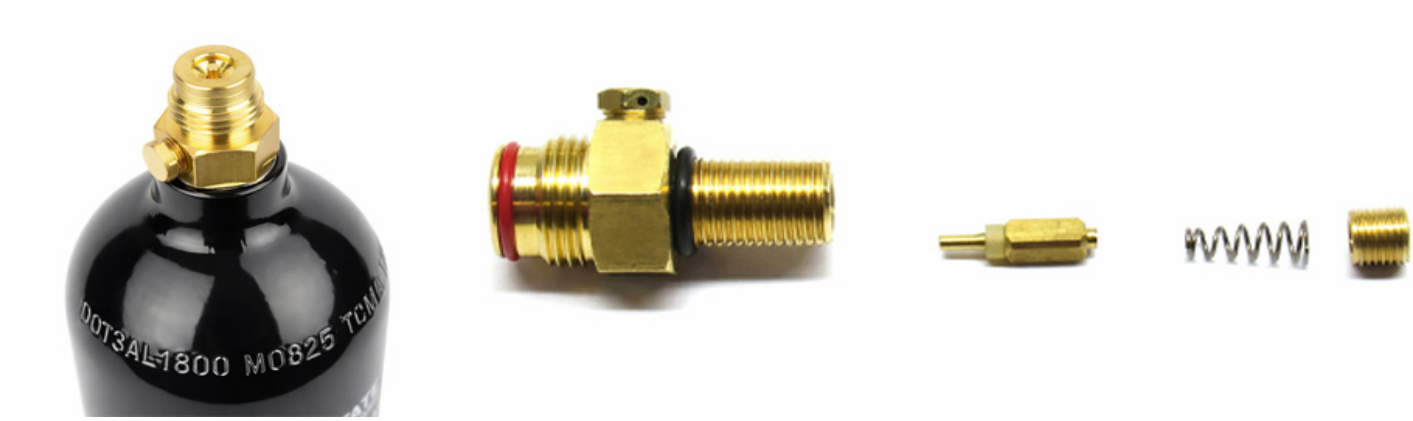
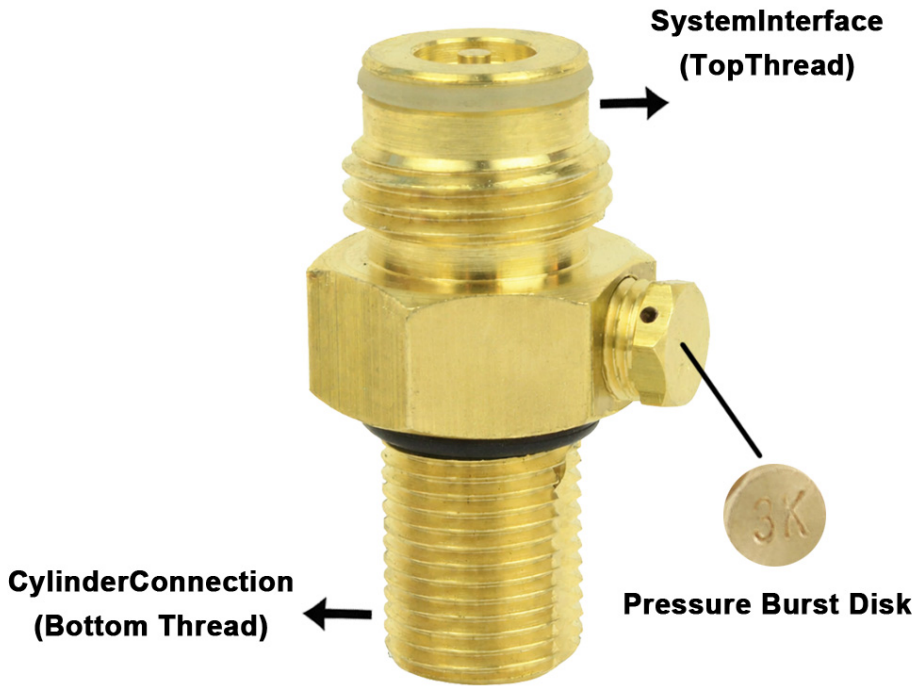
Overall Technical Parameters



Item	Specification
Product Type	Paintball CO2 Pin Valve
Applicable Gas	Carbon dioxide (CO2)
Valve Function	On / off control valve (pin-actuated, non-regulated)
Pressure Regulation	None — valve does not regulate output pressure
Operating Pressure Behavior	Follows CO vapor pressure (temperature-dependent)
Cylinder Thread	5/8"-18 UNF or M18×1.5
Top Thread	ASA .825-14 NGO or G1/2-14
Safety Devices	3K burst disk

Specifications shown are for reference configuration. Thread options vary by valve version and are supplied according to paintball system requirements.

Component Parameters & Functions



The illustration shows the main functional components and their relative positions within the Pin Valve assembly.

Cylinder Connection (Bottom Thread)

Parameter

- Thread standard: **5/8"-18 UNF or M18 × 1.5**

Function

Connects the CO2 pin valve to the refillable CO2 cylinder, forming the primary mechanical and pressure interface between the valve and the cylinder.

Note

The bottom thread specification must match the cylinder neck design.

Different thread standards are defined by the cylinder system and are not interchangeable.

System Interface (Top Thread)

Parameter

- Thread standard: ASA .825-14 NGO or G1/2-14

Function

Provides the gas outlet interface for the paintball CO2 system.
This interface connects the cylinder valve to the marker-side ASA or system connection during operation.

Note

The top thread defines the system-side connection standard.
Thread options vary by valve version and are supplied according to the paintball system configuration.

Safety Relief (Burst Disk)

Parameter

- Burst pressure: 3,000 psi (3K)

Function

Provides overpressure protection by releasing CO2 if internal cylinder pressure exceeds the designed safety threshold, preventing damage to the cylinder and connected components.

Note

The burst disk is a safety device only and does not regulate or control operating pressure.

Air Flow Reference

Operating path:

- CO2 cylinder CO2 pin valve system interface paintball marker

General Notes

- *Parameters listed represent a reference configuration.*
- *Final specifications may vary depending on valve version, cylinder standard, and system interface.*
- *Confirm thread configuration and system compatibility prior to ordering.*

Dimensions & Mechanical Reference

The illustration shows the overall profile and relative positioning of key structural sections for mechanical reference.