Paintball HPA Tank Regulator

Overall Technical Parameters

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W. Kellen

ALIZEE CYLINDERS
HIGH-PRESSURE ALUMINUM CYLINDERS
www.alizeecyl.com

No. 108, Tongning Road, Development Zone,
Jurong City, Jiangsu Province

Whatsapp:+86 17712097752

info@alizeegas.com

www.alizeecyl.com

Overall Technical Parameters

Item	Specification
Product type	Paintball HPA Tank Regulator
Applicable gas	Compressed air (HPA)
Input Pressure	4500 psi
Standard output pressure	800 psi
Custom output pressure options	1000 / 1800 / 2200 / 3000 psi (upon request)
Pressure Gauge Range	6000 psi
Cylinder Thread	5/8"-18UNF or M18*1.5
Top Thread	ASA .825-14 NGO
Safety Devices	3K burst disk + 7.5K burst disk

Specifications shown are for reference configuration.

Component Parameters & Functions

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

Cylinder Connection (Bottom Thread)

Parameter

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

Function

Connects the regulator assembly to the refillable HPA cylinder, forming the primary mechanical and pressure interface between the cylinder and the regulator.

Note

The bottom thread specification must match the cylinder neck design and is not interchangeable between standards.

Fill Port (8 mm Male Quick Plug)

Parameter

- Interface: **8 mm male quick plug**

Function

Used for filling the HPA cylinder while the regulator remains installed on the cylinder. High-pressure air enters the cylinder through this port during the filling process.

Note

This port is designed for filling only and is not used for regulated air output during operation.

Pressure Gauge

Parameter

- Maximum display range: **6000 psi**

Function

Displays the internal pressure of the HPA cylinder during filling and operation, allowing monitoring of remaining air pressure.

Regulator Body

Parameter

- Standard output pressure: **800 psi**
- Custom output pressure options: **1000 / 1800 / 2200 / 3000 psi**

Function

Reduces high-pressure air stored in the cylinder to a controlled output pressure suitable for paintball system operation.

Note

Output pressures above 800 psi are considered custom configurations and should be confirmed based on system requirements.

High-Pressure Burst Disk

Parameter

- Burst pressure: **7.5K psi**

Function

Provides overpressure protection on the high-pressure side of the system during cylinder filling or abnormal pressure conditions.

Low-Pressure Burst Disk

Parameter

- Burst pressure: **3K psi**

Function

Protects downstream components by releasing pressure if regulated output pressure exceeds the designed safety threshold.

System Interface (ASA Output Thread)

Parameter

- Thread standard: **ASA .825-14 NGO**

Function

Delivers regulated air from the tank regulator to the paintball marker through a standard ASA connection during operation.

Air Flow Reference

Filling path:

- Fill station 8 mm quick plug (fill port) cylinder interior

Operating path:

- Cylinder → regulator → ASA output thread → paintball marker

General Notes

- *Parameters listed represent a reference configuration.*
- *Final specifications may vary depending on regulator setup, cylinder type, and application requirements.*
- *Confirm configuration details prior to installation or use.*

Dimensions & Mechanical Reference

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

High-Pressure Burst Disk

Unit: mm (inch in parentheses)

Item	Dimension
Regulator body outer diameter	27.8 mm (1.09 in) / 29.4 mm (1.16 in)
Upper section height	18.0 mm (0.71 in)
Main body height	45.7 mm (1.80 in)
Bottom section height	28.0 mm (1.10 in) / 24.0 mm (0.94 in)
Approximate overall height	70 – 75 mm (2.76 – 2.95 in)

Dimensions shown represent common configurations.

Mechanical Reference Notes

Dimensions are provided for reference only and may vary by configuration. Confirm suitability before system integration.