

# Air Driven Gas Booster

This air driven gas booster is suitable for compressing most gases, including air, nitrogen, helium, and oxygen. Industrial gases like argon and helium can be compressed to operating pressures of 25000 psig (1724 bar).



## Overview

### High-Performance Air Driven Gas Booster

The AGB06 Series is a double-drive, double-stage gas booster designed for high-pressure industrial applications. It offers a safe and efficient alternative to electrically driven products, capable of operating in explosion-proof areas without heat, flame, or spark risk. This robust system is suitable for a wide variety of gases including Nitrogen, Helium, Oxygen, and Hydrogen, ensuring high purity through a lubrication-free gas section.

## Key Features

### Features

- ★ Because it has a higher compression ratio, it can work at lower gas supply pressure Ps.
- ★ Max. air drive pressure Pa=150 psig(10.3 bar)
- ★ Choice of seal materials.
- ★ Pressure to 25000 psig(1724 bar).
- ★ No lubricator required.

The booster features a high compression ratio allowing operation at lower gas supply pressures, reaching up to 25,000 psig.

### Core Features

- No heat, flame or spark risk
- Separation between air and gas sections
- No lubrication in the gas section to ensure high purity
- Built-in cooling system
- Ability to stall at predetermined pressure without power consumption
- No airline lubricator required
- Infinitely variable cycling speed and output

## Technical Capabilities

### Maximum Operating Pressures

**25000 psig**

Industrial Gases (N<sub>2</sub>, He, Ar)

**15000 psig**

Hydrogen

**5000 psig**

Oxygen

### Compatible Gases

Air, N<sub>2</sub>, He, CO<sub>2</sub>, Ne, Ar, O<sub>2</sub>, H<sub>2</sub>, CH<sub>4</sub>, Natural Gas

### Max Air Drive Pressure

150 psig

## Performance Data

### Performance and Specification

Booster Model Code	Max. Gas Supply	Min. Gas Supply	Max. Rated Gas Outlet (psig)			Actual ML Per Cycle	Outlet Stall Press. Formula	Compression Ratio Max.	Max. barrel Safe Pressure	
			Inert Gas	Hydrogen	Oxygen				First stage	Second stage
AGB06-2T-14/30	12 Pa	25psig	5000	5000	5000	216ML	30 Pa+2 Ps	50:1	2500psig	5000psig
AGB06-2T-14/60	4 Pa	25psig	9000	9000	5000	216ML	60 Pa+4 Ps	100:1	2500psig	9000psig
AGB06-2T-30/60	30 Pa	100psig	9000	9000	5000	102ML	60 Pa+2 Ps	50:1	5000psig	9000psig
AGB06-2T-30/100	13 Pa	100psi	14500	14500	5000	102ML	100 Pa+3.3 Ps	75:1	5000psig	15000psig
AGB06-2T-30/150	7 Pa	100psig	15000	15000	5000	102ML	150 Pa+5 Ps	100:1	5000psig	25000psig
AGB06-2T-60/100	90 Pa	100psig	15000	15000	5000	51ML	100 Pa+1.6 Ps	40:1	9000psig	15000psig
AGB06-2T-60/150	40 Pa	100psig	25000	15000	N/A	51ML	150 Pa+2.5 Ps	60:1	9000psig	25000psig

When the pressure of the first stage exceeds the Max. barrel Safe Pressure listed in the table. Install interstage relief valve set at this pressure.

Detailed technical specifications for various AGB06 series models, including outlet pressures and compression ratios.

### AGB06 Series Model Specifications

Model	Max Rated Gas Outlet (Inert)	Max Rated Gas Outlet (H2)	Output Per Cycle	Compression Ratio
AGB06-2T-14/30	5000 psig	5000 psig	216 ML	50:1
AGB06-2T-14/60	9000 psig	9000 psig	216 ML	100:1
AGB06-2T-30/60	9000 psig	9000 psig	102 ML	50:1
AGB06-2T-30/100	14500 psig	14500 psig	102 ML	75:1
AGB06-2T-30/150	15000 psig	15000 psig	102 ML	100:1
AGB06-2T-60/100	15000 psig	15000 psig	51 ML	40:1
AGB06-2T-60/150	25000 psig	15000 psig	51 ML	60:1

## Compliance & Safety

### Certifications

ATEX Approved • CE Certified

Explosion Proof Area Suitable

Yes