



ITEM

2022

GAS BOOSTER

LIQUID PUMP

PRESSURE TESTING

# PRODUCT CATALOG



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## GAS BOOSTER

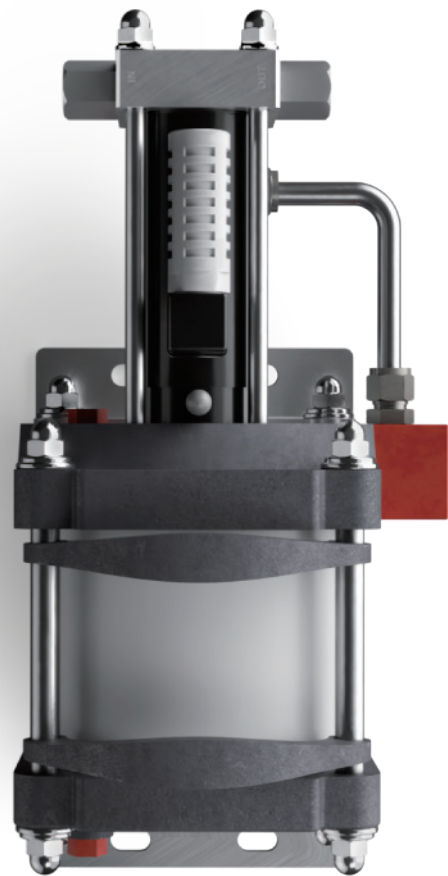
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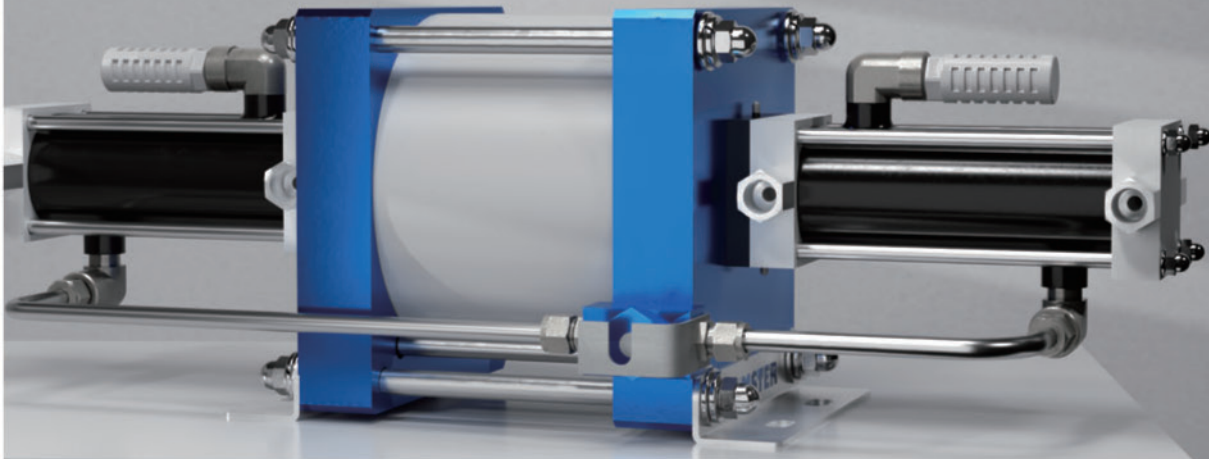
# Pneumatic operation by applying **Pascal's Law**

**Gas booster** pressurizing through Cross-section ratio by Pascal's Law, create big energy by converting air pressure to straight reciprocal movement.

In this point, **inflowed gas through IN Check valve is compressed and outflowed / pressurized to the Out Check valve.**

- Applied in industrial gas and special gas such as Argon, Helium, Nitrogen, Oxygen etc.,
- Stay cool when working hard due to a cooling jacket.
- No requirement for electricity.
- Oil free, no requirement for oil replacement, contamination.
- Suitable for explosion proof area.
- Diversely compatible for different models accoring to using pressure and flow rate.





## (200 $\Phi$ ) **GB-QS-7** SERIES

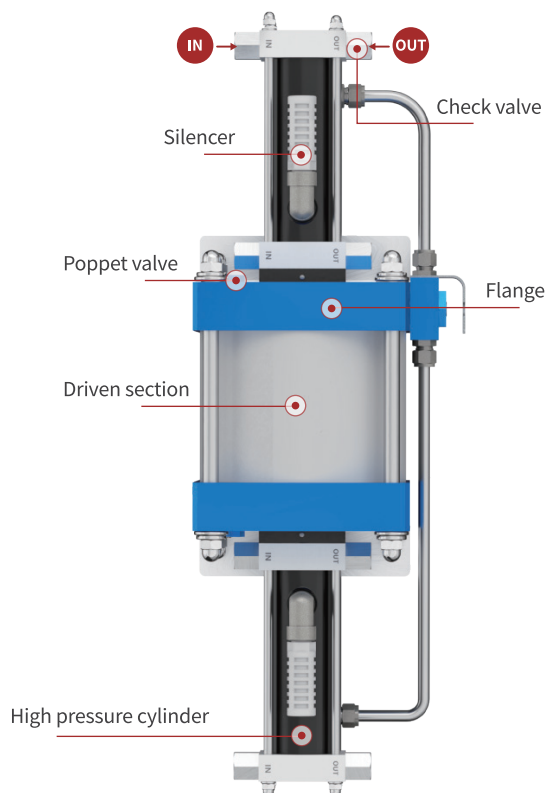
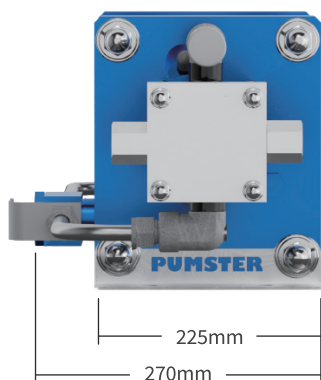
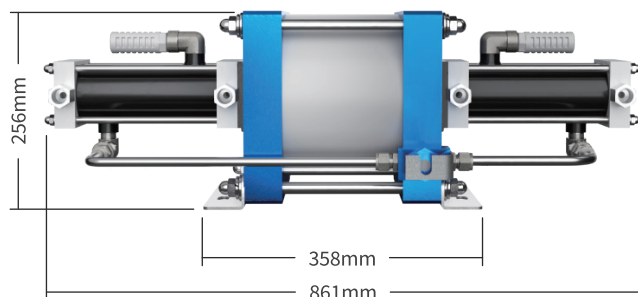
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Four stage & Single driven

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Gas Booster GB-QS(200 $\Phi$ ) is a **special model**.  
It consists of **double stage (four displacement flow part)**  
**and single driven part**.  
( compression ratio: 1 : 7 [Driven part 200 $\Phi$ ] )

# GB-QS-7(200Φ) SPECIFICATION



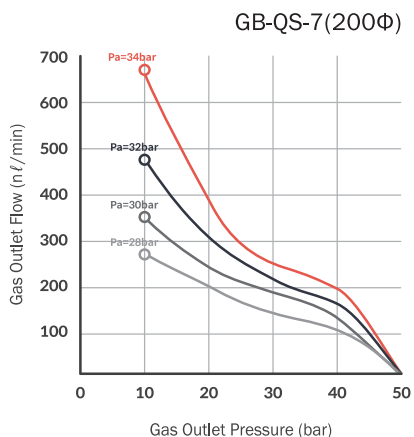
※ Please contact sales staff if you need further assistance.

Model	QS-7 (200Φ)
Ratio	1 : 7
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10
Max. Pressure (kg / cm <sup>2</sup> )	49
Min.Suction Pressure (kg / cm <sup>2</sup> )	4
Connections (inlet / outlet)	1/2" PT / 1/2" PT
Weight (kg)	40

※ M,P(kg/cm<sup>2</sup>) = Ratio \* Air Drive Pressure(kg/cm<sup>2</sup>)    ※ M,P is calculated with 7 bar(standardized air pressure).

※ Weight is approximate value.

# GB-QS-7(200Φ) PERFORMANCE CURVES



### Theoretical charging time formula

Reservoir tank x atm = TAL

TAL / ( Flow rate/sec ) = total charging time

\* Outlet pressure (Pb) = LPI

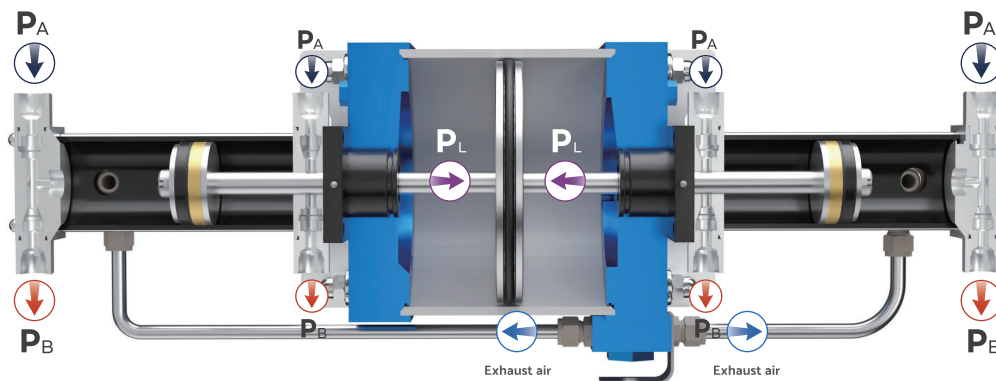
(Outlet Pressure = Compression ratio · Air drive)

### Precautions

- There are lots of variables when increasing pressure under high pressure.
- Driven part: driven air pressure, flow rate
- High pressure part: inflow gas pressure, feed rate
- Actual flow rate will be different depending on utility.

# GB-QS-7(200Φ) OVERVIEW

- P<sub>A</sub>** Suction gas
- P<sub>B</sub>** Discharging gas
- P<sub>L</sub>** Air drive





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