



ITEM

2022

GAS BOOSTER

LIQUID PUMP

PRESSURE TESTING

PRODUCT CATALOG



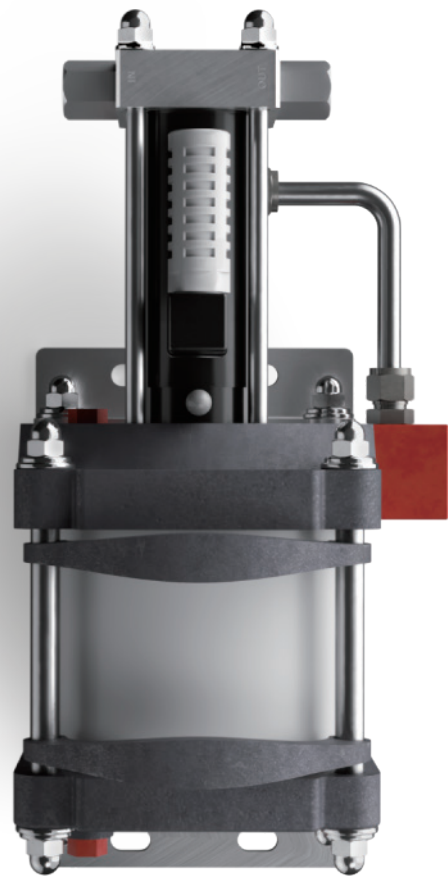
GAS BOOSTER

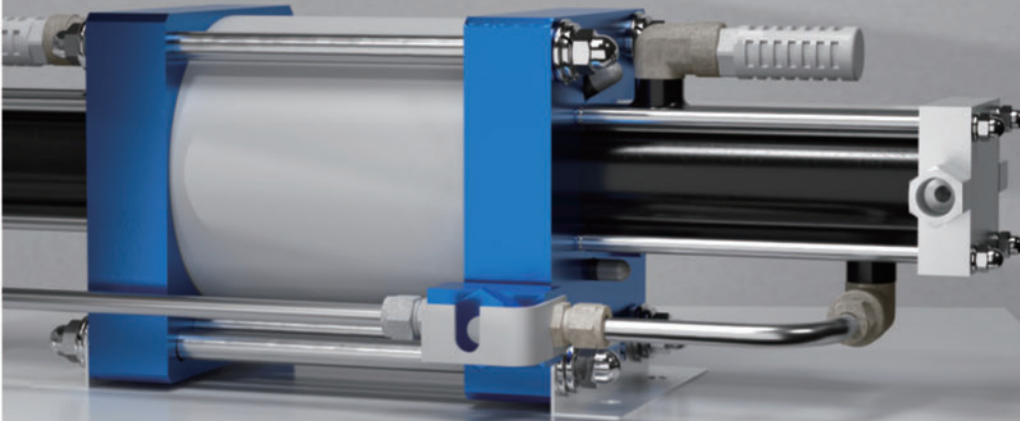
Pneumatic operation by applying **Pascal's Law**

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.



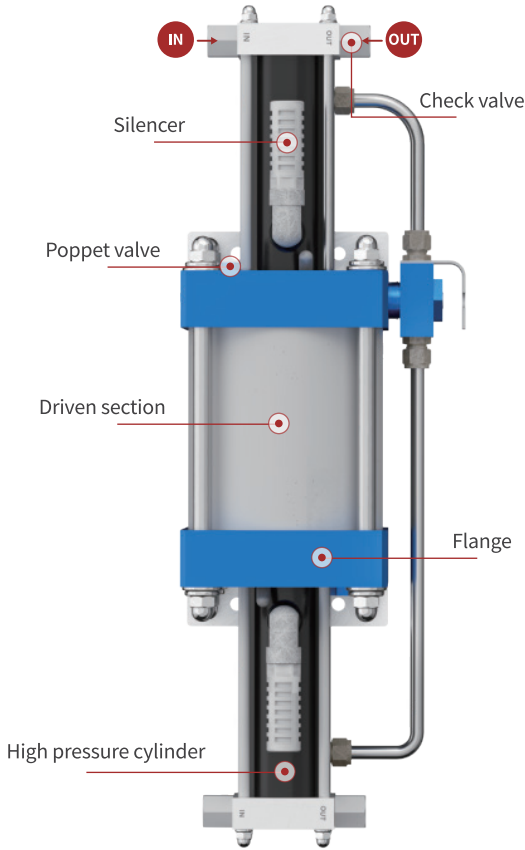
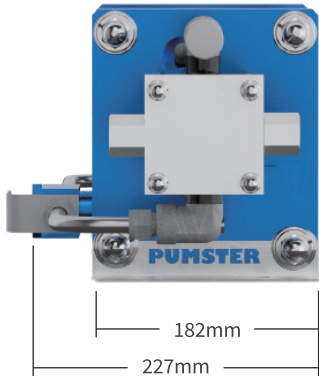
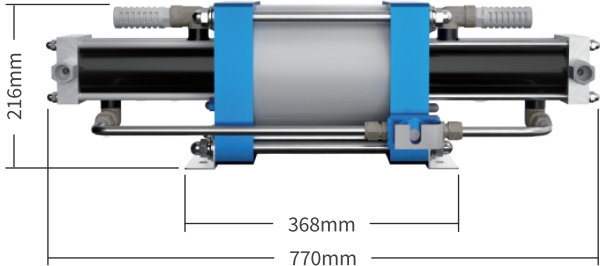


(160Φ) GB-DS-7 SERIES

Double stage & Single driven

Gas Booster GB-DS(160Φ) is a **special model**.
It consists of **double stage and single driven part**.
(compression ratio: 1 : 7 [Driven part 160Φ])

GB-DS-7(160Φ) SPECIFICATION

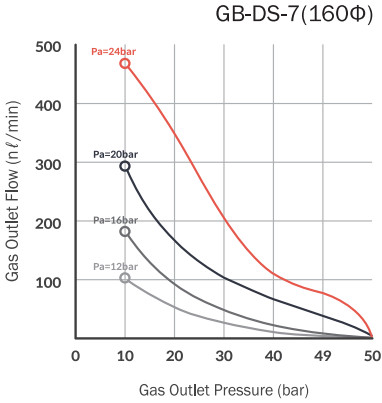


※ Please contact sales staff if you need further assistance.

Model	DS-7 (160Φ)
Ratio	1 : 7
Air Drive Pressure (kg / cm ²)	5 ~ 10
Max. Pressure (kg / cm ²)	49
Min.Suction Pressure (kg / cm ²)	4
Connections (inlet / outlet)	1/2" PT / 1/2" PT
Weight (kg)	21

※ M,P(kg/cm²) = Ratio * Air Drive Pressure(kg/cm²) ※ M,P is calculated with 7 bar(standardized air pressure).
 ※ Weight is approximate value.

GB-DS-7(160Φ) PERFORMANCE CURVES



Theoretical charging time formula

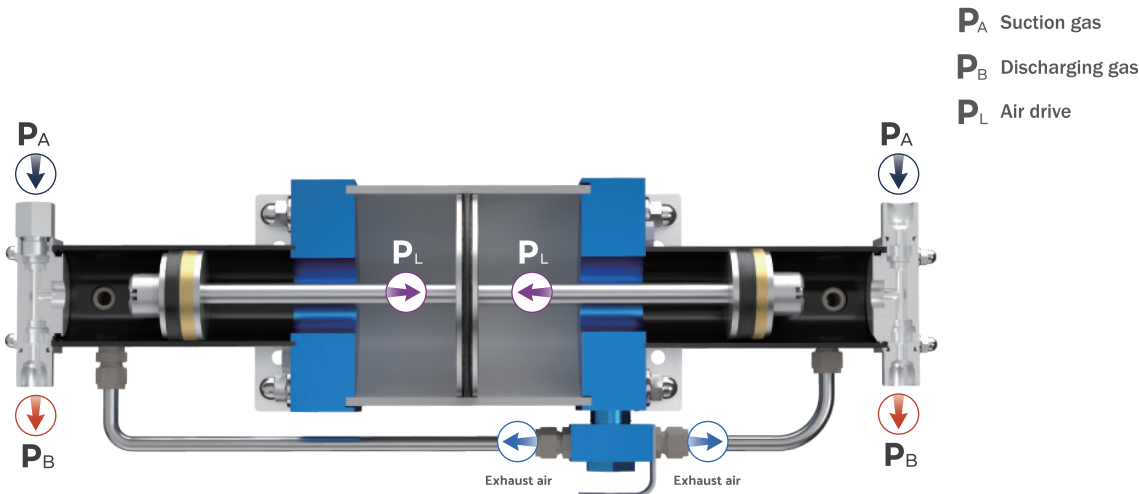
Reservoir tank x atm = TAL
 TAL / (Flow rate/sec) = total charging time

* Outlet pressure (Pb) = IPI
 (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-DS-7(160Φ) OVERVIEW





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