



ITEM

2022

GAS BOOSTER

LIQUID PUMP

PRESSURE TESTING

PRODUCT CATALOG



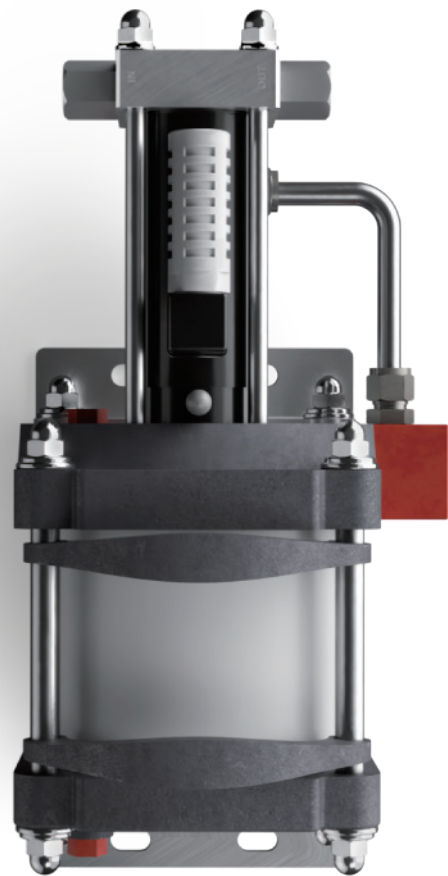
GAS BOOSTER

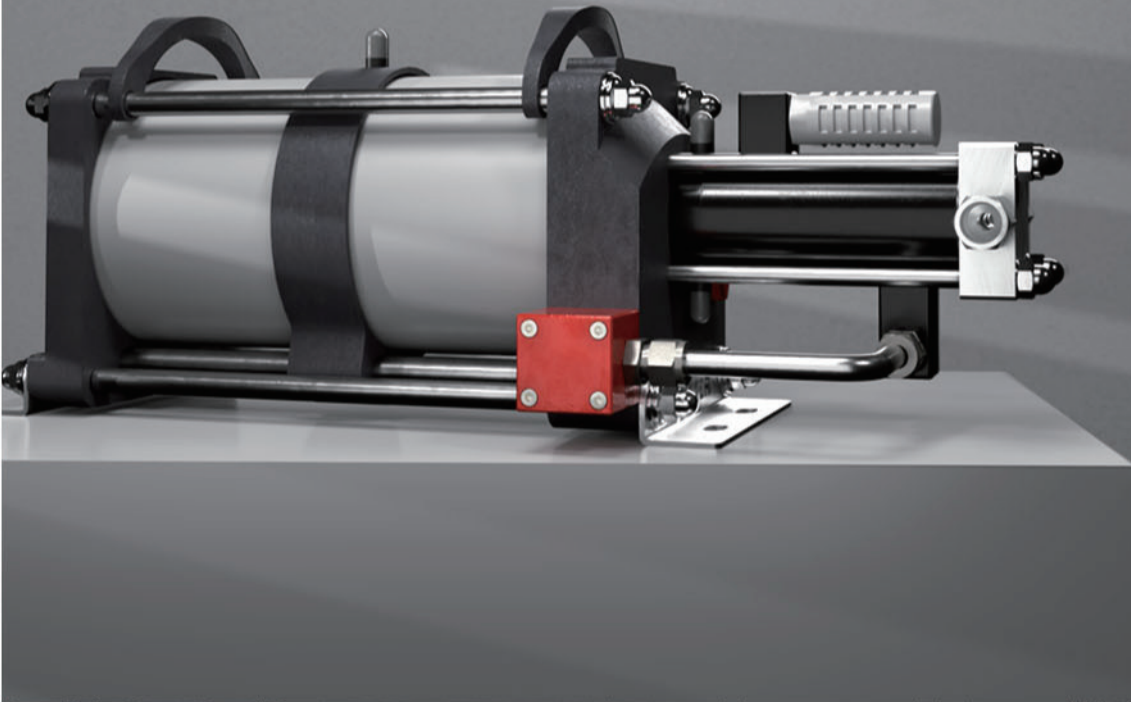
Pneumatic operation by applying **Pascal's Law**

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.



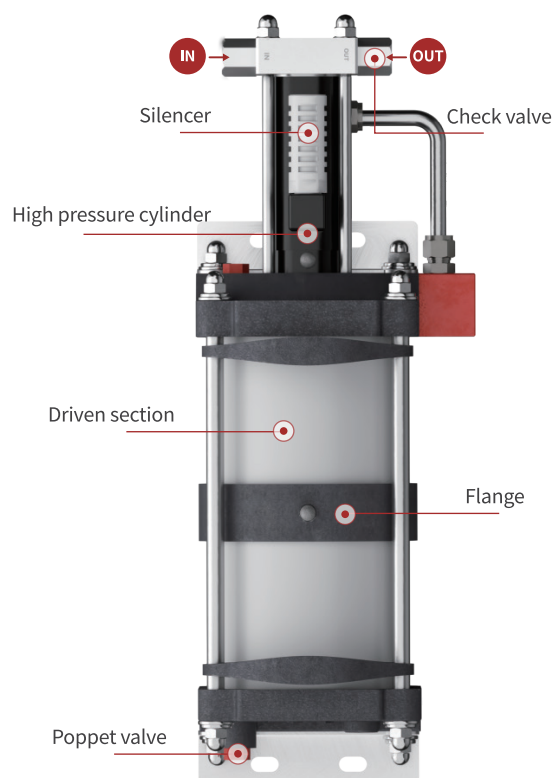
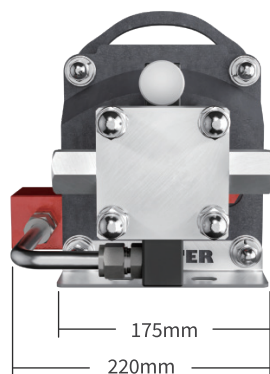
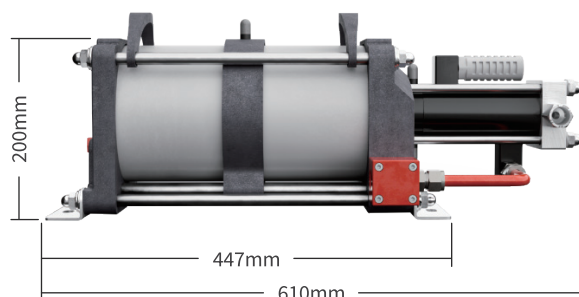


GB-SD SERIES

Single stage & Double driven

Gas Booster GB-SD consists of single stage and double driven part.
There are **3 types depending on compression ratio.**
(compression ratio: 1 : 60 / 100 / 150)

GB-SD SPECIFICATION



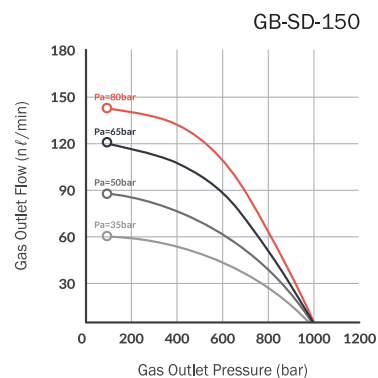
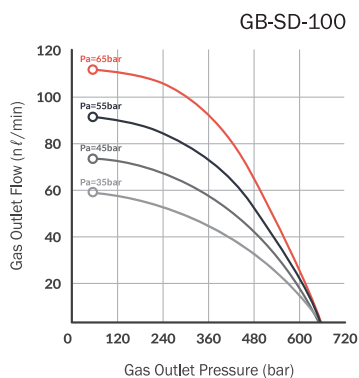
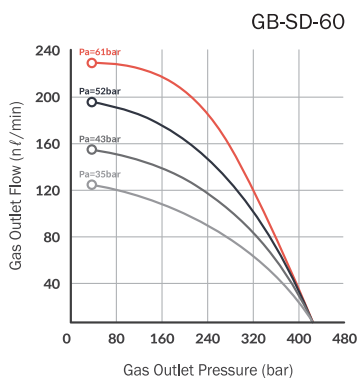
※ Please contact sales staff if you need further assistance.

Model	SD - 60	SD - 100	SD - 150
Ratio	1 : 60	1 : 100	1 : 150
Air Drive Pressure (kg / cm ²)	5 ~ 10		
Max. Pressure (kg / cm ²)	420	700	1,050
Min.Suction Pressure (kg / cm ²)	28	31	35
Connections (inlet / outlet)	9/16" 18 UNF / 9/16" 18 UNF		
Weight (kg)	20	20	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-SD PERFORMANCE CURVES



Theoretical charging time formula

Reservoir tank x atm = TAL

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

* Outlet pressure (Pb) = IPI

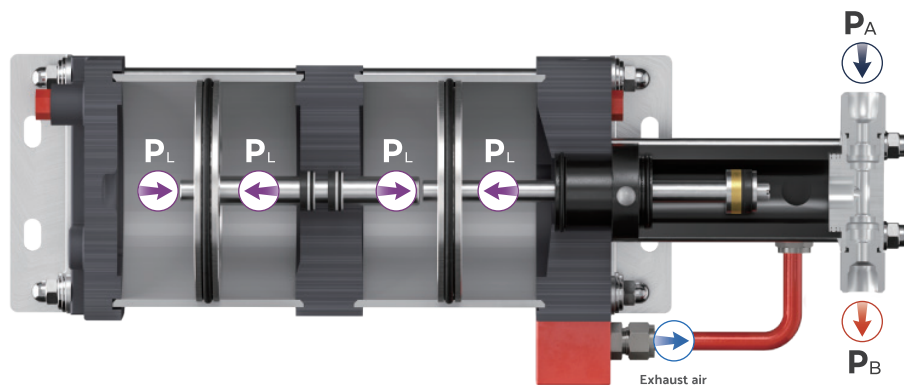
(Outlet Pressure = Compression ratio · Air drive)

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-SD OVERVIEW

P_A Suction gas
P_B Discharging gas
P_L Air drive





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