



ITEM

2022

GAS BOOSTER

LIQUID PUMP

PRESSURE TESTING

# PRODUCT CATALOG



---

## GAS BOOSTER

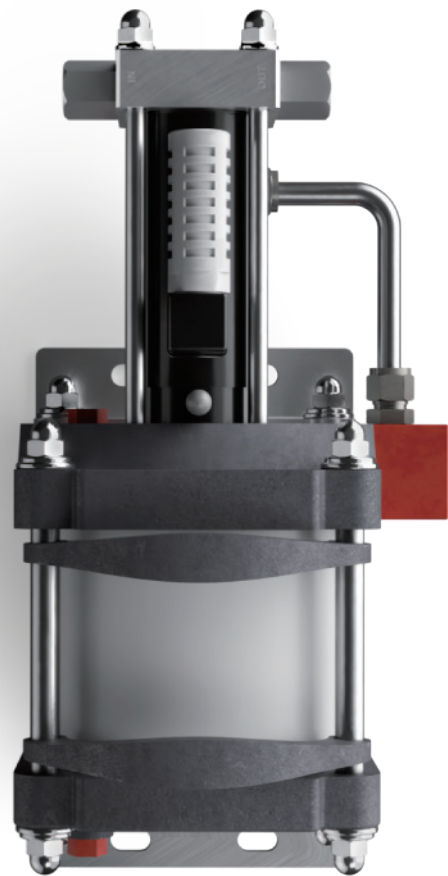
---

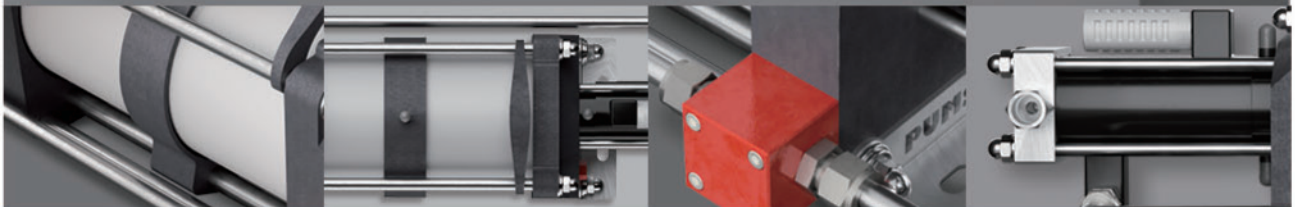
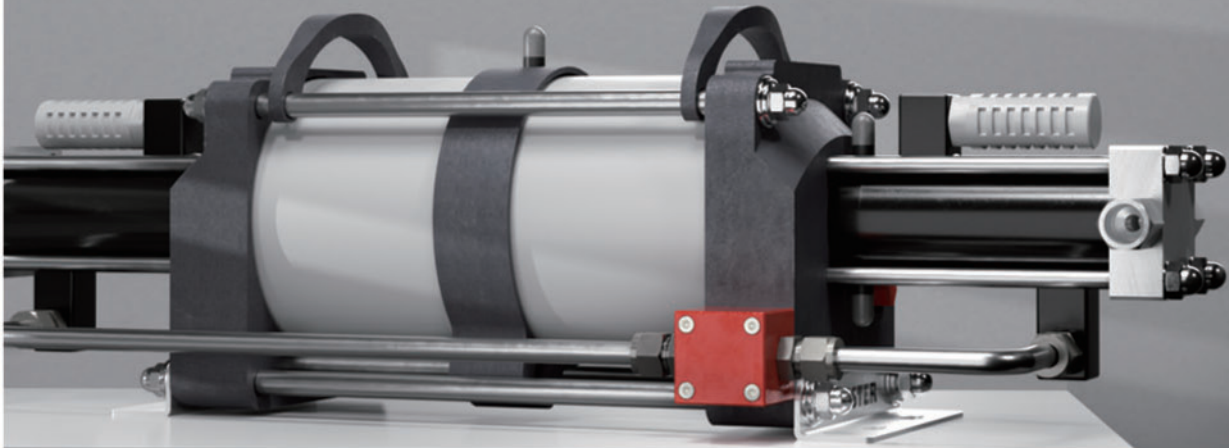
# Pneumatic operation by applying **Pascal's Law**

**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 according to using pressure and flow rate.





# GB-DD SERIES

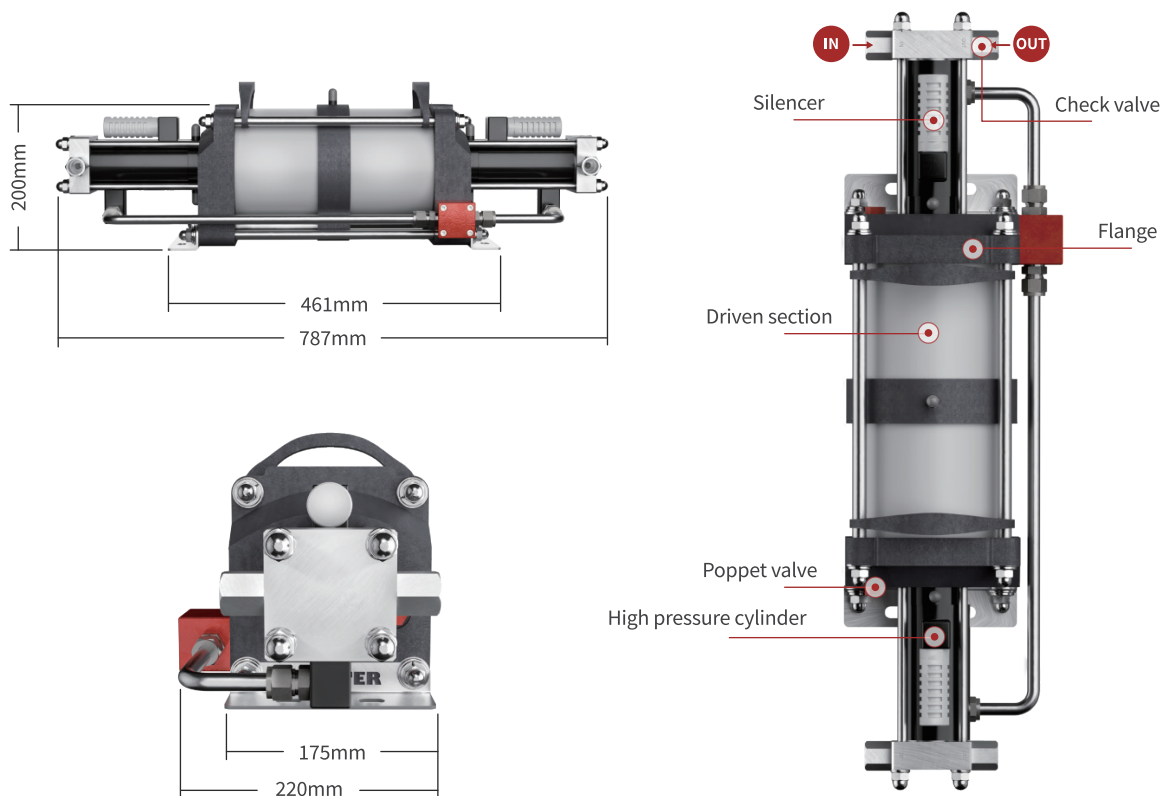
---

Double stage & Double driven

---

Gas Booster GB-DD consists of double stage and double driven part.  
There are **5 types depending on compression ratio.**  
( compression ratio: 1 : 14 / 28 / 60 / 100 / 150 )

# GB-DD SPECIFICATION



※ Please contact sales staff if you need further assistance.

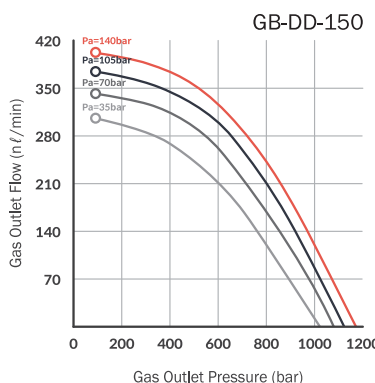
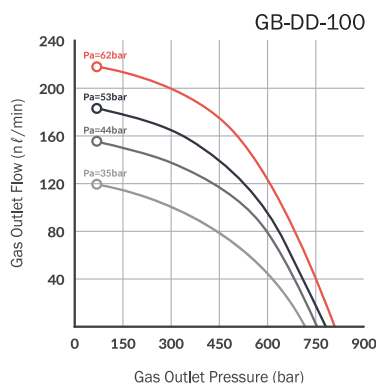
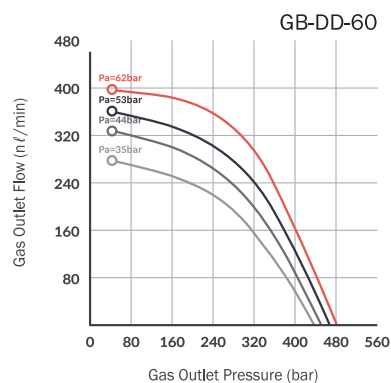
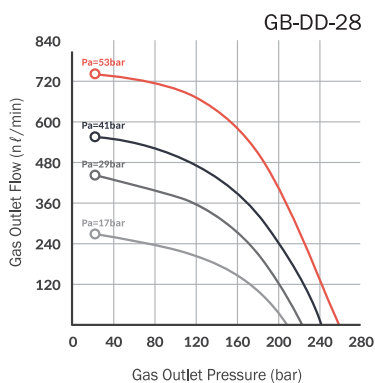
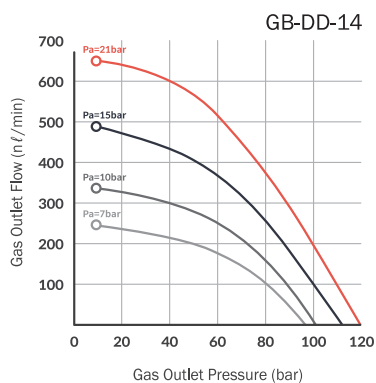
Model	DD - 14	DD - 28	DD - 60	DD - 100	DD - 150
Ratio	1 : 14	1 : 28	1 : 60	1 : 100	1 : 150
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10				
Max. Pressure (kg / cm <sup>2</sup> )	98	196	420	700	1,050
Min.Suction Pressure (kg / cm <sup>2</sup> )	7	13	28	31	35
Connections (inlet / outlet)	1/2" PT / 1/2" PT		9/16" 18 UNF / 9/16" 18 UNF		
Weight (kg)	23	23	24	25	25

※ 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-DD PERFORMANCE CURVES



### Theoretical charging time formula

Reservoir tank x atm = TAL

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

\* Outlet pressure (Pb) = I·PI

(Outlet Pressure = Compression ratio · Air drive)

### Precautions

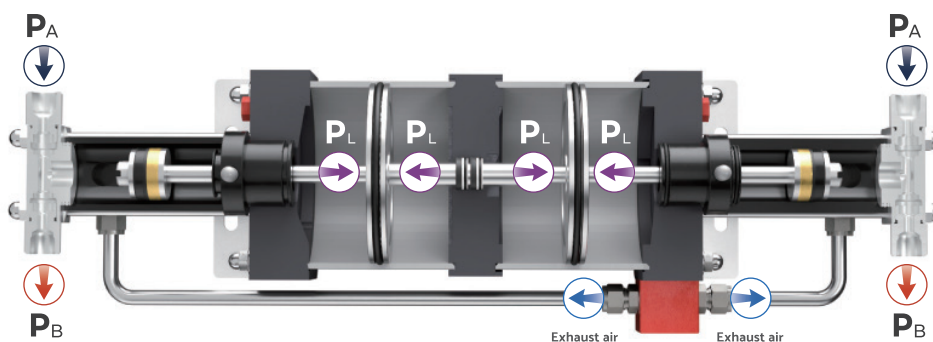
- There are lots of variables when increasing pressure under high pressure.
- Driven part: driven air pressure, flow rate
- High pressure part: inflow gas pressure, feed rate
- Actual flow rate will be different depending on utility.

# GB-DD OVERVIEW

**P<sub>A</sub>** Suction gas

**P<sub>B</sub>** Discharging gas

**P<sub>L</sub>** Air drive





140, Daehwa-ro 106 beon-gil, Daedeok-gu, Daejeon Pumster Co., Ltd.  
TEL. 042 716 0085 | FAX. 042 716 0086 | [pumster@pumster.com](mailto:pumster@pumster.com)

