



ITEM

2022

GAS BOOSTER

LIQUID PUMP

PRESSURE TESTING

# PRODUCT CATALOG



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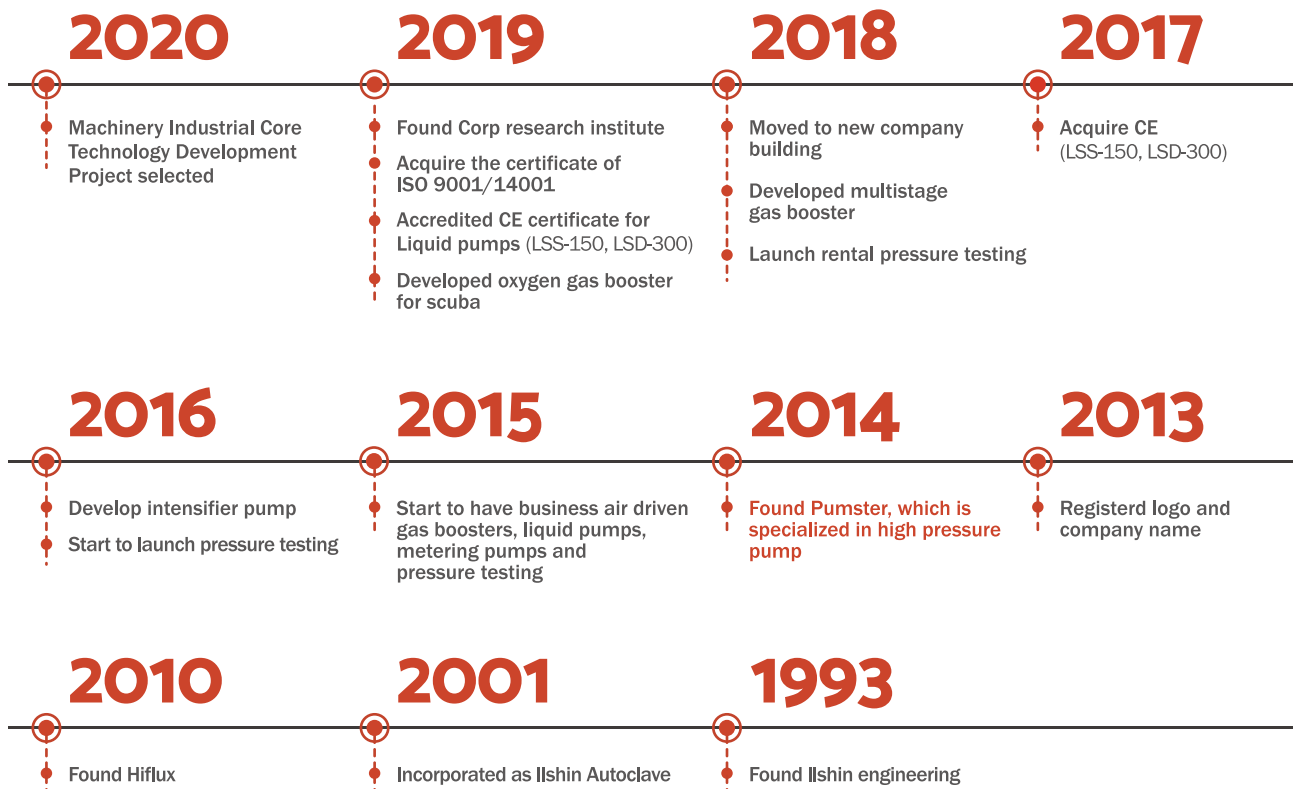
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# “ TO BE COMMUNICATIVE AND BE CONSIDERABLE TO EACH OTHER

As a subsidiary of Ilshin Autoclave accumulating high temperature and high pressure related technology and experience for 20 years Pumster is producing Liquid pump, Gas booster, Hydraulic and Pressure system through self drawing, manufacturing, Assembling and After sales service. Therefore, Pumster is Top-class EPC (Engineering, Procurement & Construction) company. Pumster which is providing liquid pump, gas booster and kinds of systems, has accumulated experience

and knowhow in related field and take an effort to do initiative role in high pressure pump industry through incessant R&D. Besides, our all staffs and workers will do our best to become a faithful company so that customers can feel self-confidence on possession of Pumster products. Thank you!



# MAIN PRODUCTS

Pumster has **specialized in high pressure pumps,** which has manufactured air driven gas boosters and liquid pumps, metering pumps and pressure testing.



## Gas Boosters

It is for compressing or increasing gas such industrial gas (Nitrogen, Carbon dioxide, Helium, Methane).

## Liquid Pumps

It is for transferring or increasing liquid.



## Pressure testing

It is order-made products which is suitable for internal/external pressure, leakage, bursting and fatigue by controlling low and high pressure.

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## GAS BOOSTER

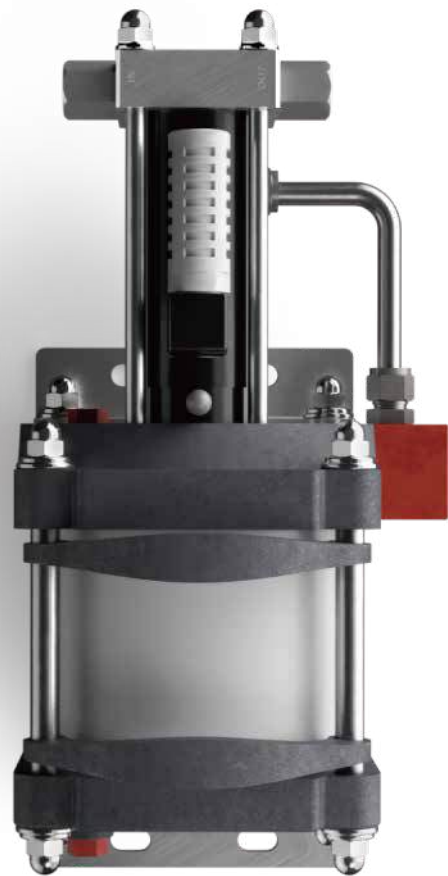
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# Pneumatic operation by applying **Pascal's Law**

**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.





# GB-SS SERIES

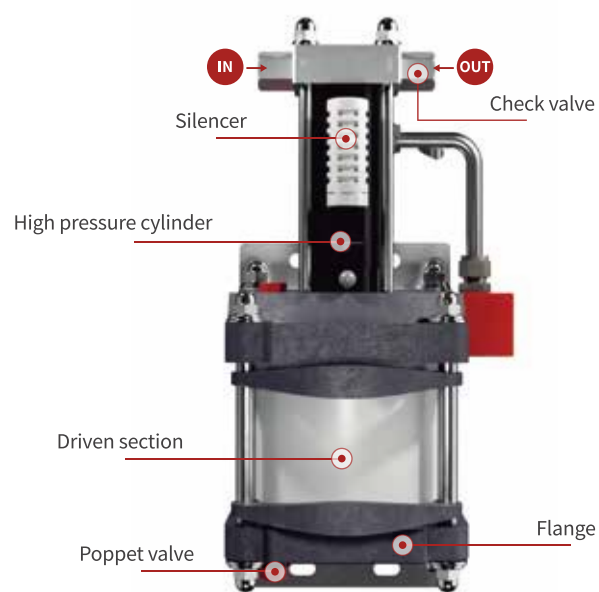
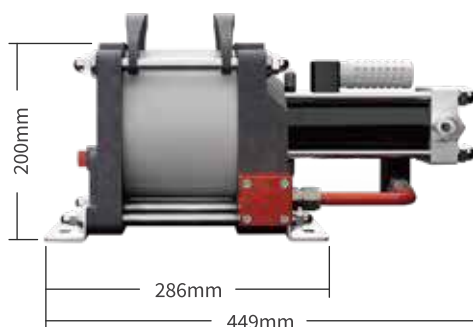
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Single stage & Single driven

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Gas Booster GB-SS consists of single stage and single driven part.  
There are **5 types depending on compression ratio.**  
( compression ratio: 1:7 / 14 / 30 / 50 / 75 )

# GB-SS SPECIFICATION



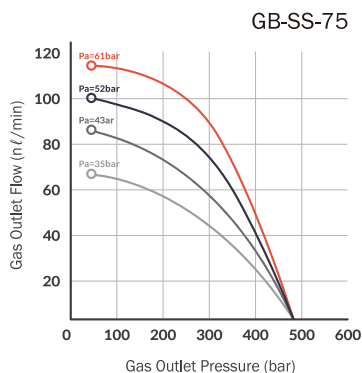
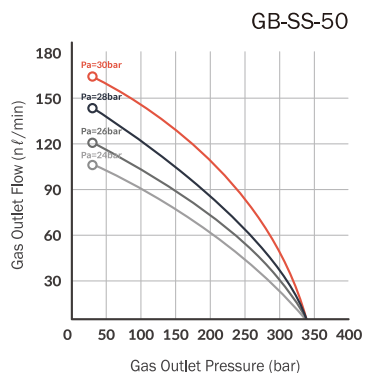
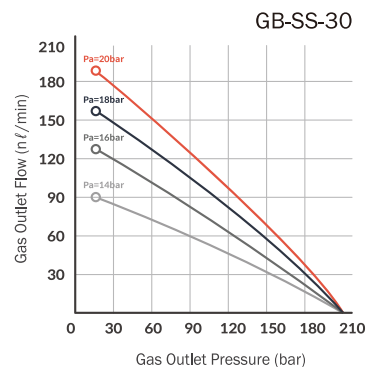
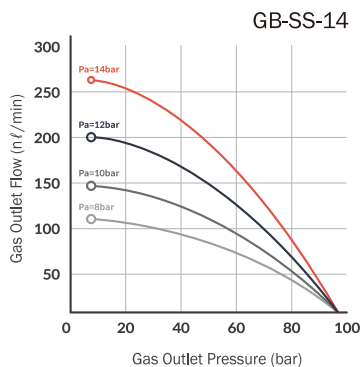
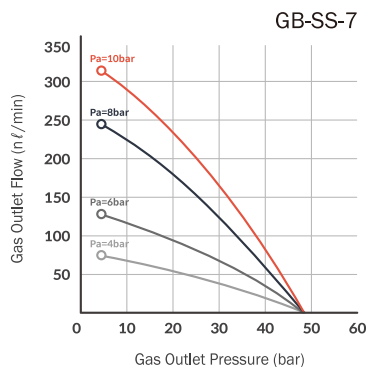
※ Please contact sales staff if you need further assistance.

Model	SS - 7	SS - 14	SS - 30	SS - 50	SS - 75
Ratio	1 : 7	1 : 14	1 : 30	1 : 50	1 : 75
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10				
Max. Pressure (kg / cm <sup>2</sup> )	49	98	210	350	525
Min.Suction Pressure (kg / cm <sup>2</sup> )	4	7	14	21	35
Connections (inlet / outlet)	1/2" PT / 1/2" PT		9/16" 18 UNF / 9/16" 18 UNF		
Weight (kg)	16	16	17	18	18

※ 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-SS PERFORMANCE CURVES



### Theoretical charging time formula

Reservoir tank x atm = TAL

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

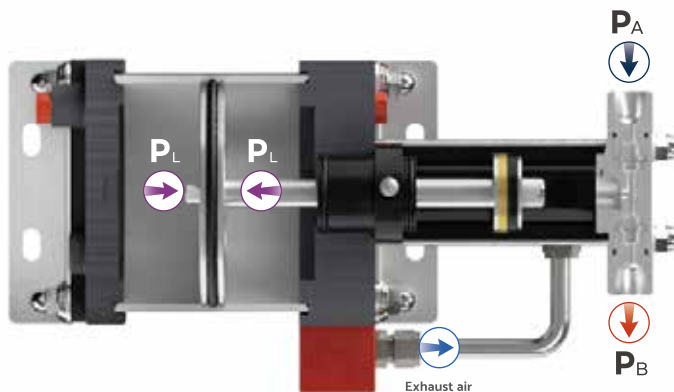
\* Outlet pressure (Pb) = IPI

(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-SS OVERVIEW



$P_A$  Suction gas

$P_B$  Discharging gas

$P_L$  Air drive





# GB-SD SERIES

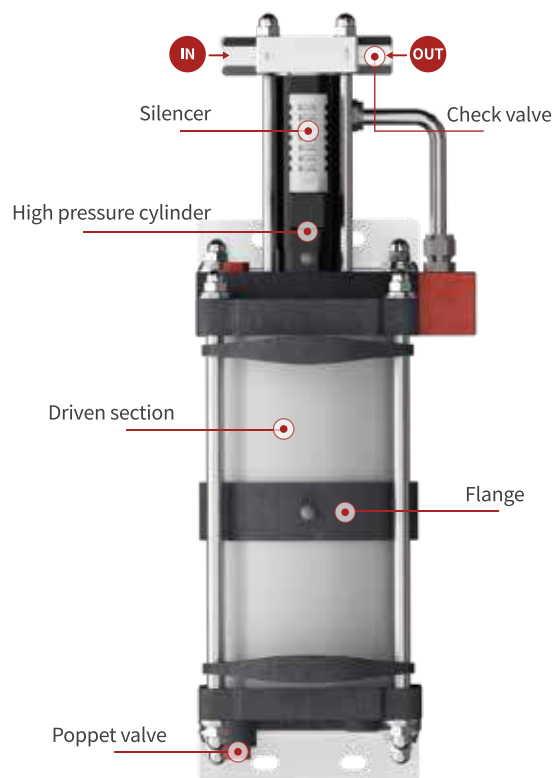
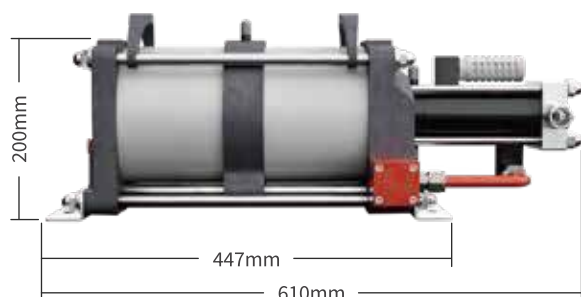
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Single stage & Double driven

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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



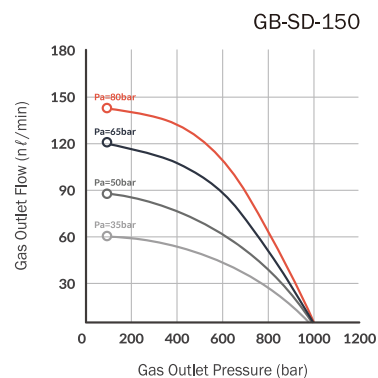
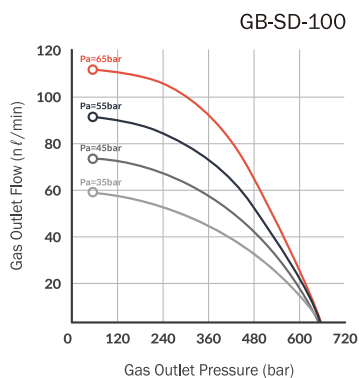
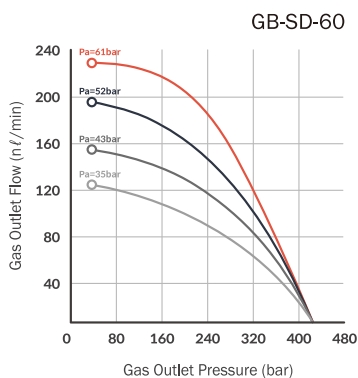
※ Please contact sales staff if you need further assistance.

Model	SD - 60	SD - 100	SD - 150
Ratio	1 : 60	1 : 100	1 : 150
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10		
Max. Pressure (kg / cm <sup>2</sup> )	420	700	1,050
Min.Suction Pressure (kg / cm <sup>2</sup> )	28	31	35
Connections (inlet / outlet)	9/16" 18 UNF / 9/16" 18 UNF		
Weight (kg)	20	20	21

※ 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-SD PERFORMANCE CURVES



**Theoretical charging time formula**

Reservoir tank x atm = TAL

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

\* Outlet pressure (Pb) = IPI

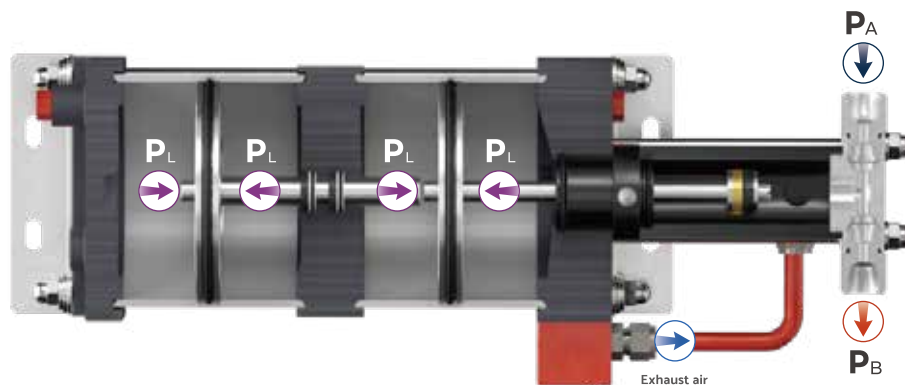
(Outlet Pressure = Compression ratio · Air drive)

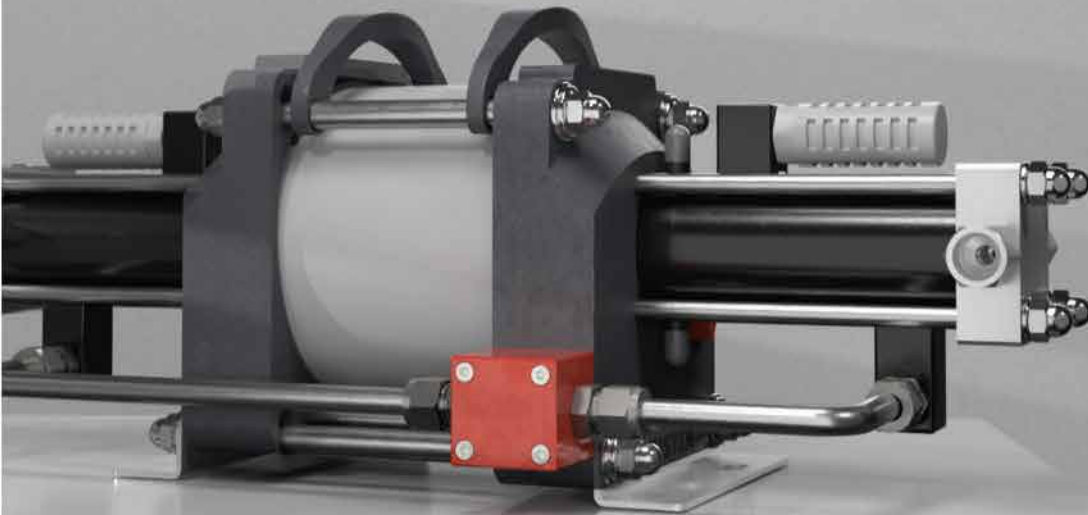
**Precautions**

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





# GB-DS SERIES

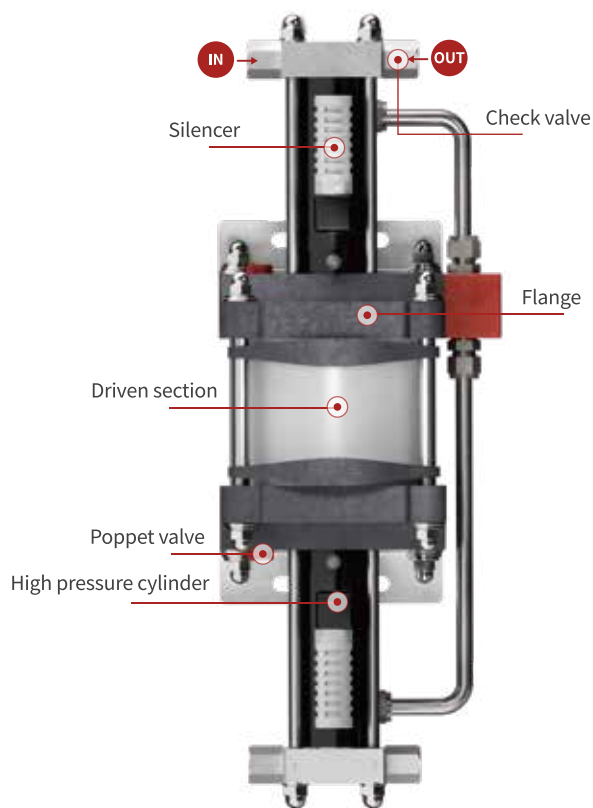
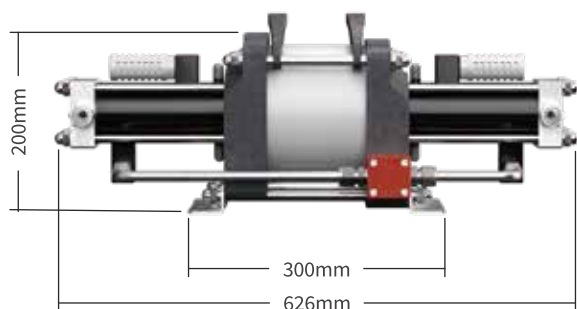
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Double stage & Single driven

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Gas Booster GB-DS consists of double stage and single driven part.  
There are **5 types depending on compression ratio.**  
( compression ratio: 1 : 7 / 14 / 30 / 50 / 75 )

# GB-DS SPECIFICATION



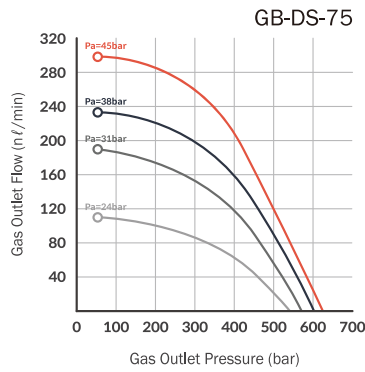
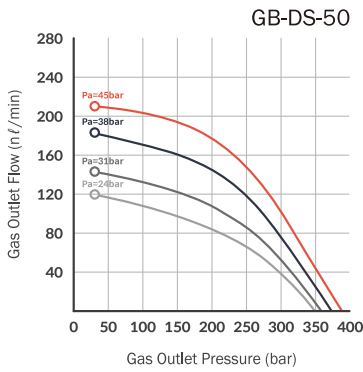
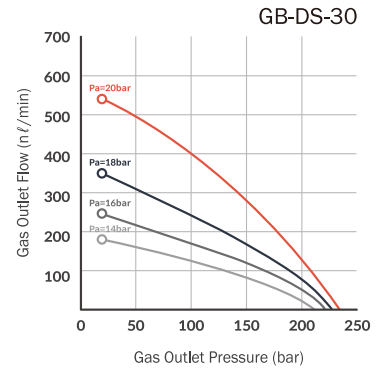
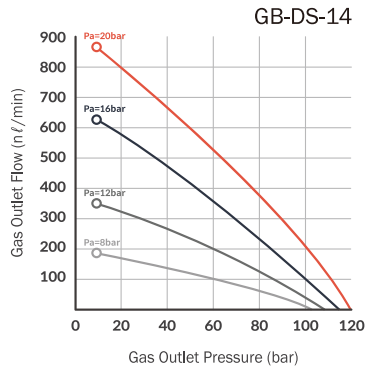
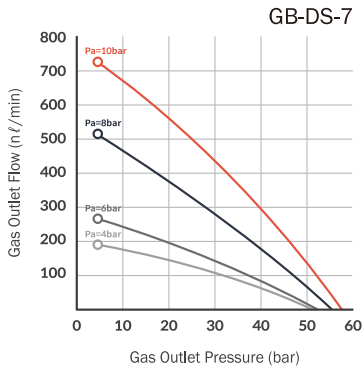
※ Please contact sales staff if you need further assistance.

Model	DS - 7	DS - 14	DS - 30	DS - 50	DS - 75
Ratio	1 : 7	1 : 14	1 : 30	1 : 50	1 : 75
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10				
Max. Pressure (kg / cm <sup>2</sup> )	49	98	210	350	525
Min.Suction Pressure (kg / cm <sup>2</sup> )	4	7	14	21	35
Connections (inlet / outlet)	1/2" PT / 1/2" PT		9/16" 18 UNF / 9/16" 18 UNF		
Weight (kg)	19	19	20	21	21

※ 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-DS PERFORMANCE CURVES



**Theoretical charging time formula**

Reservoir tank x atm = TAL

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

\* Outlet pressure (P<sub>B</sub>) = I·PI

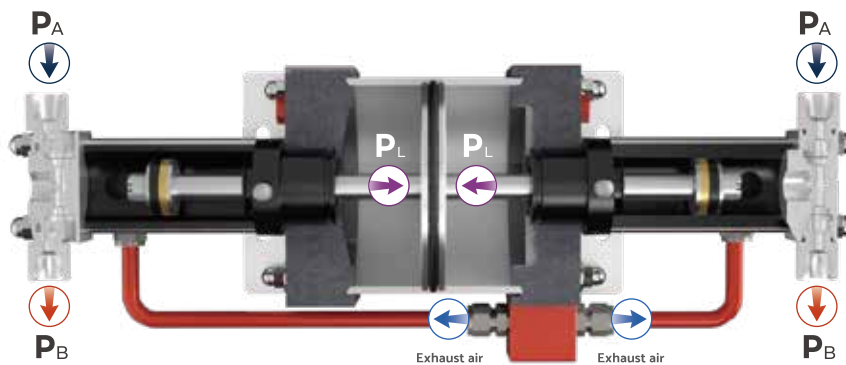
(Outlet Pressure = Compression ratio · Air drive)

**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-DS OVERVIEW

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





# GB-DD SERIES

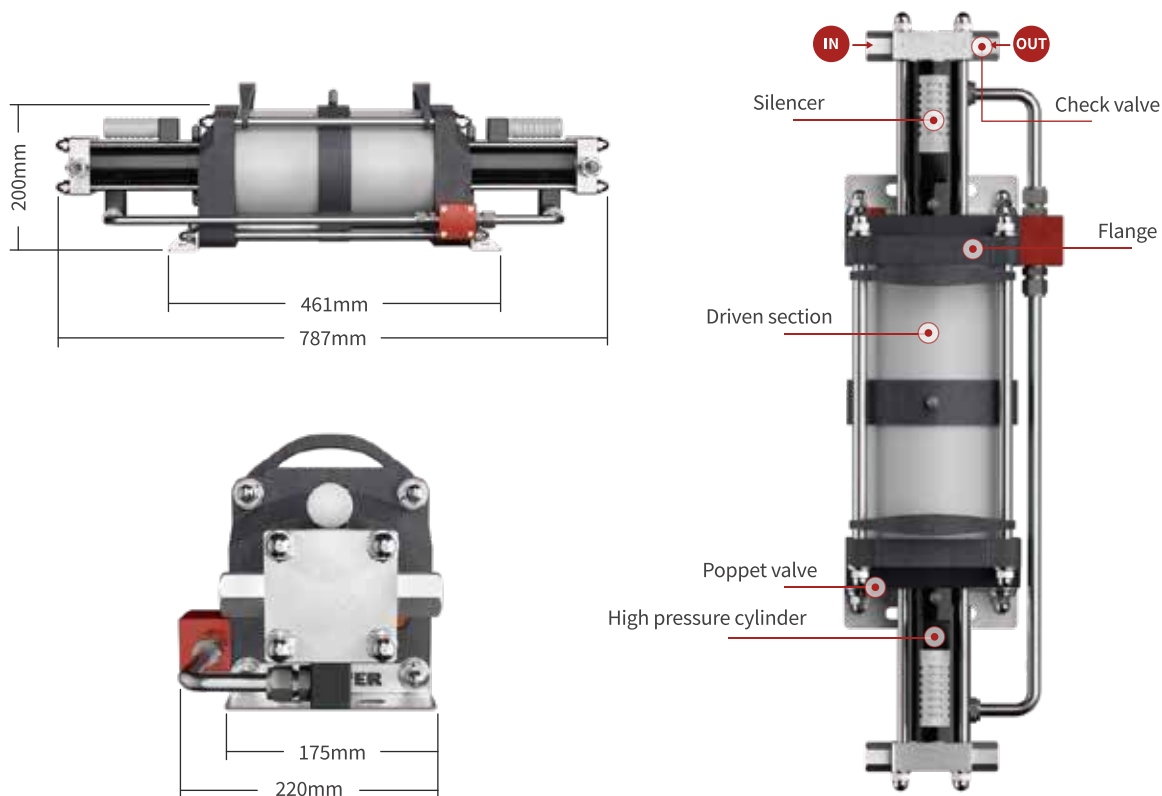
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Double stage & Double driven

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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.

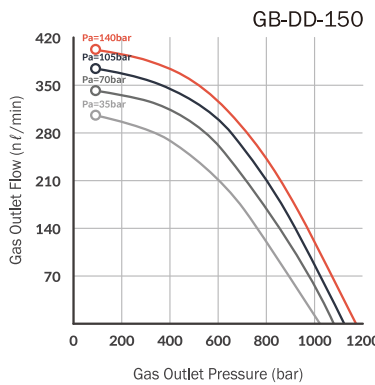
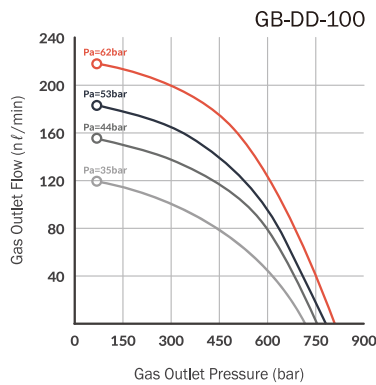
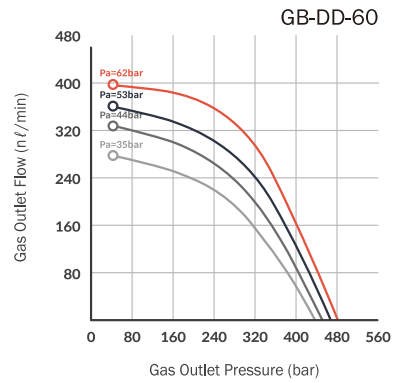
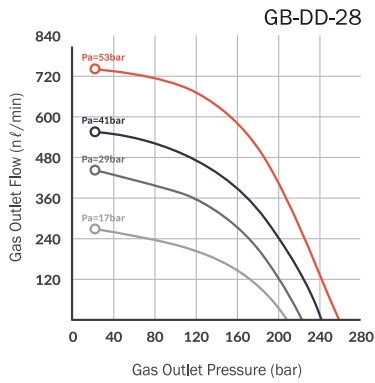
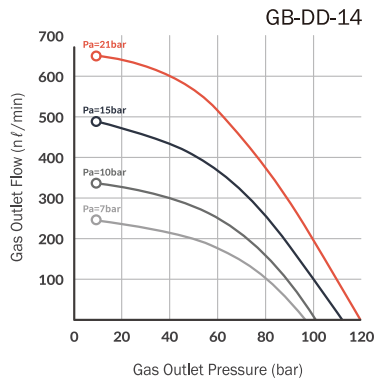
Model	DD - 14	DD - 28	DD - 60	DD - 100	DD - 150
Ratio	1 : 14	1 : 28	1 : 60	1 : 100	1 : 150
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10				
Max. Pressure (kg / cm <sup>2</sup> )	98	196	420	700	1,050
Min.Suction Pressure (kg / cm <sup>2</sup> )	7	13	28	31	35
Connections (inlet / outlet)	1/2" PT /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

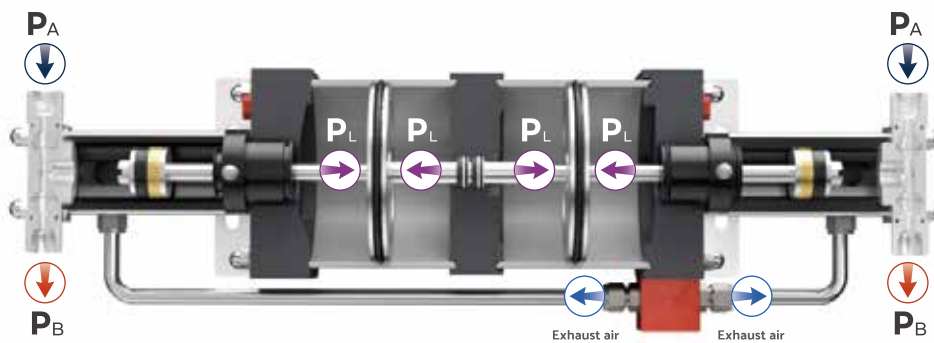
(Outlet Pressure = Compression ratio · Air drive)

### 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





# (160Φ) GB-DS-7 SERIES

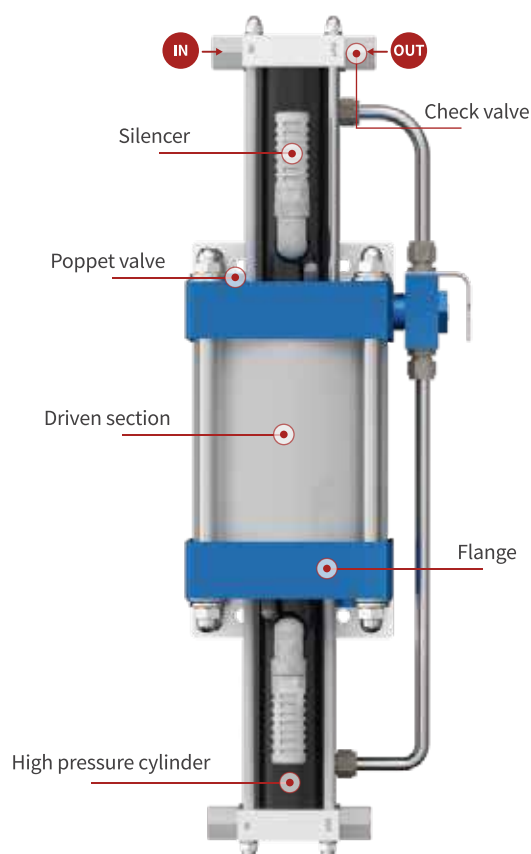
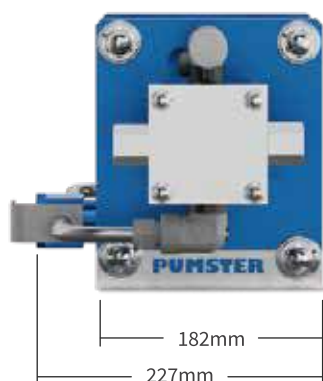
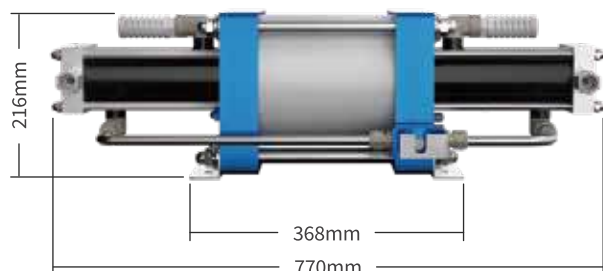
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Double stage & Single driven

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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



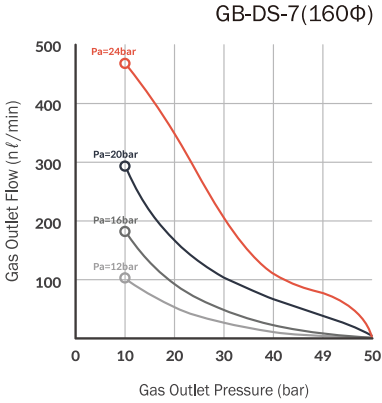
※ Please contact sales staff if you need further assistance.

Model	DS-7 (160Φ)
Ratio	1 : 7
Air Drive Pressure (kg / cm <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)	21

※ 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-DS-7(160Φ) PERFORMANCE CURVES



**Theoretical charging time formula**

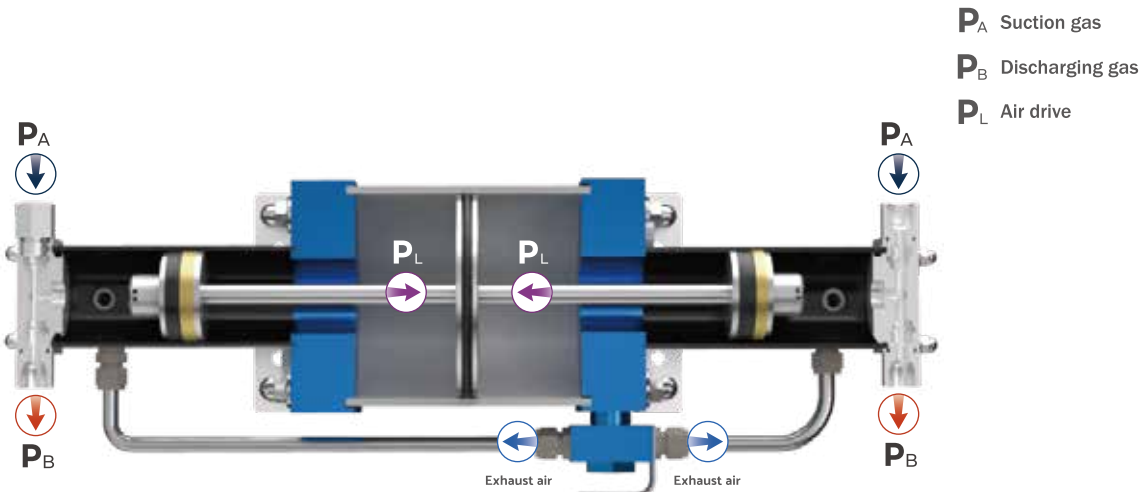
Reservoir tank x atm = TAL  
 $TAL / (\text{Flow rate/sec}) = \text{total charging time}$

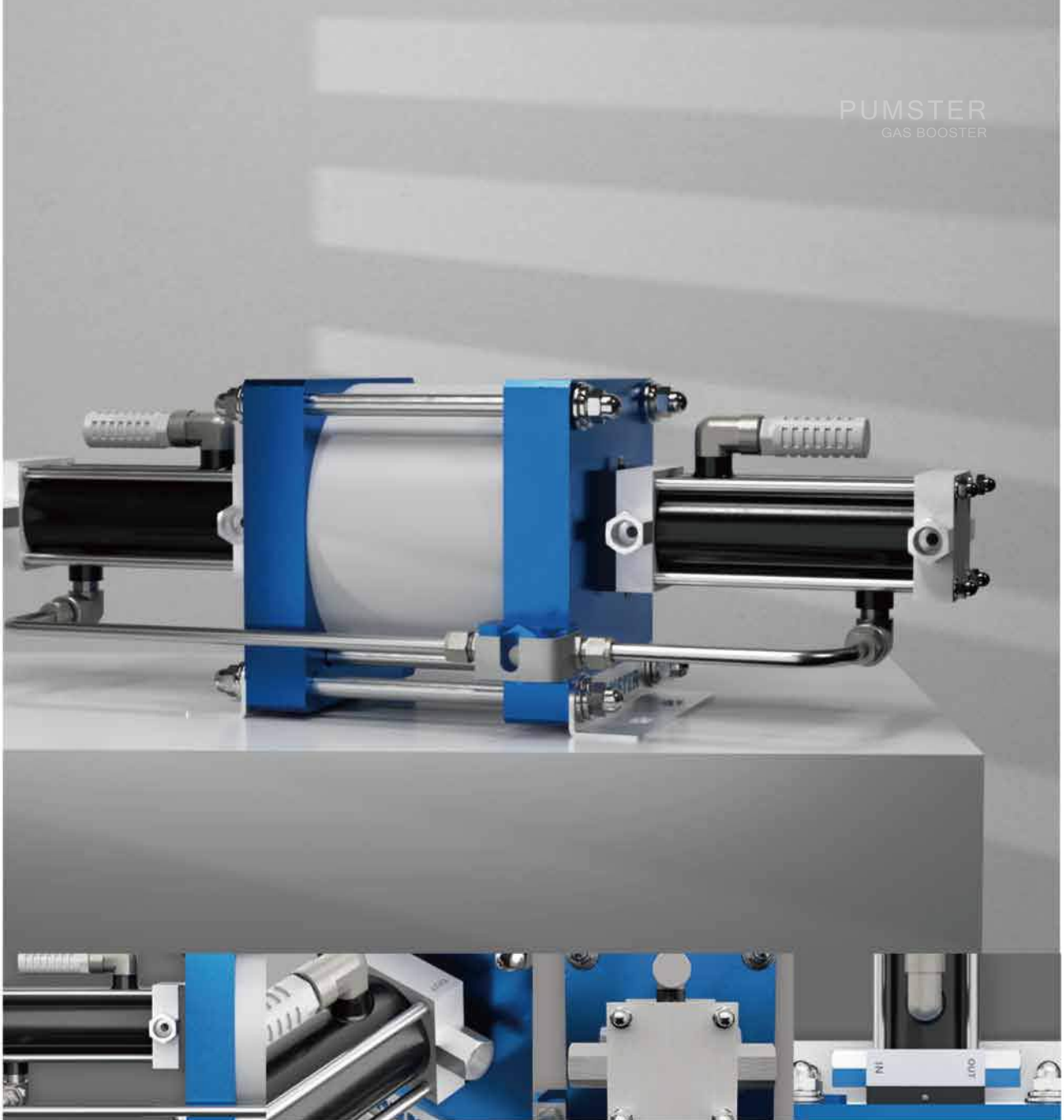
\* Outlet pressure (Pb) = IPI  
(Outlet Pressure = Compression ratio · Air drive)

**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





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

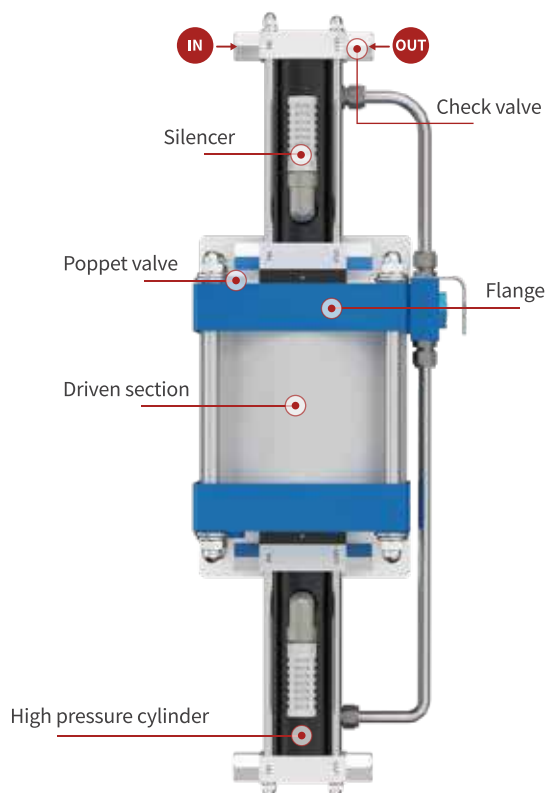
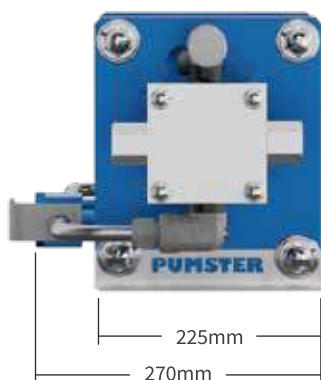
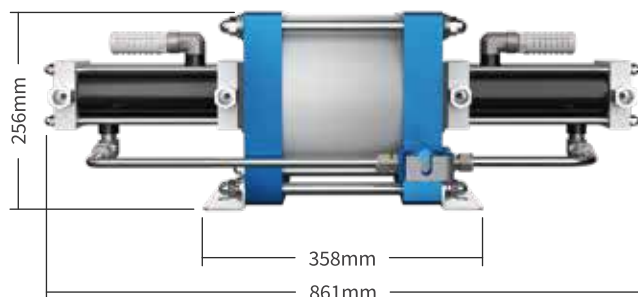
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Four stage & Single driven

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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



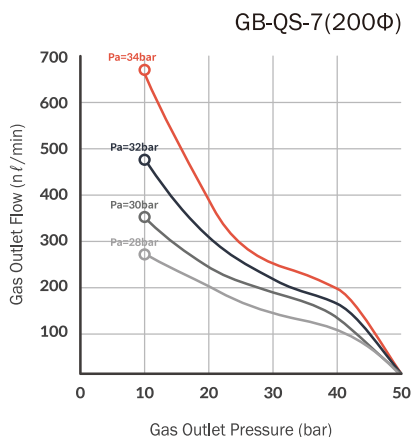
※ Please contact sales staff if you need further assistance.

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

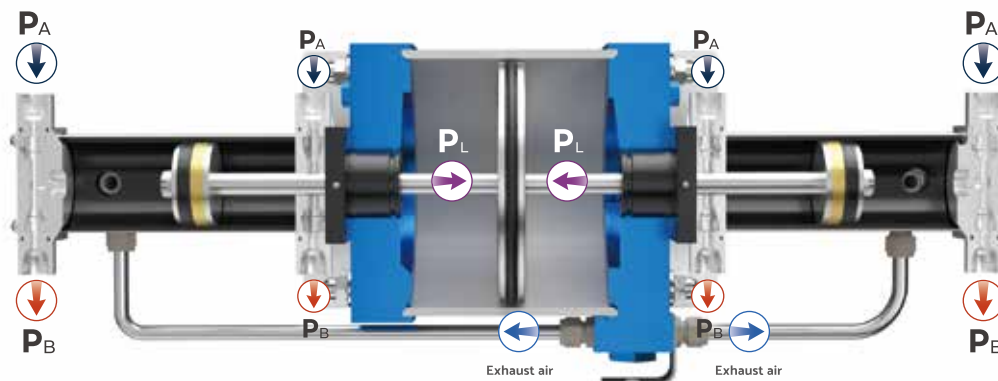
(Outlet Pressure = Compression ratio · Air drive)

### 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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## LIQUID PUMP

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

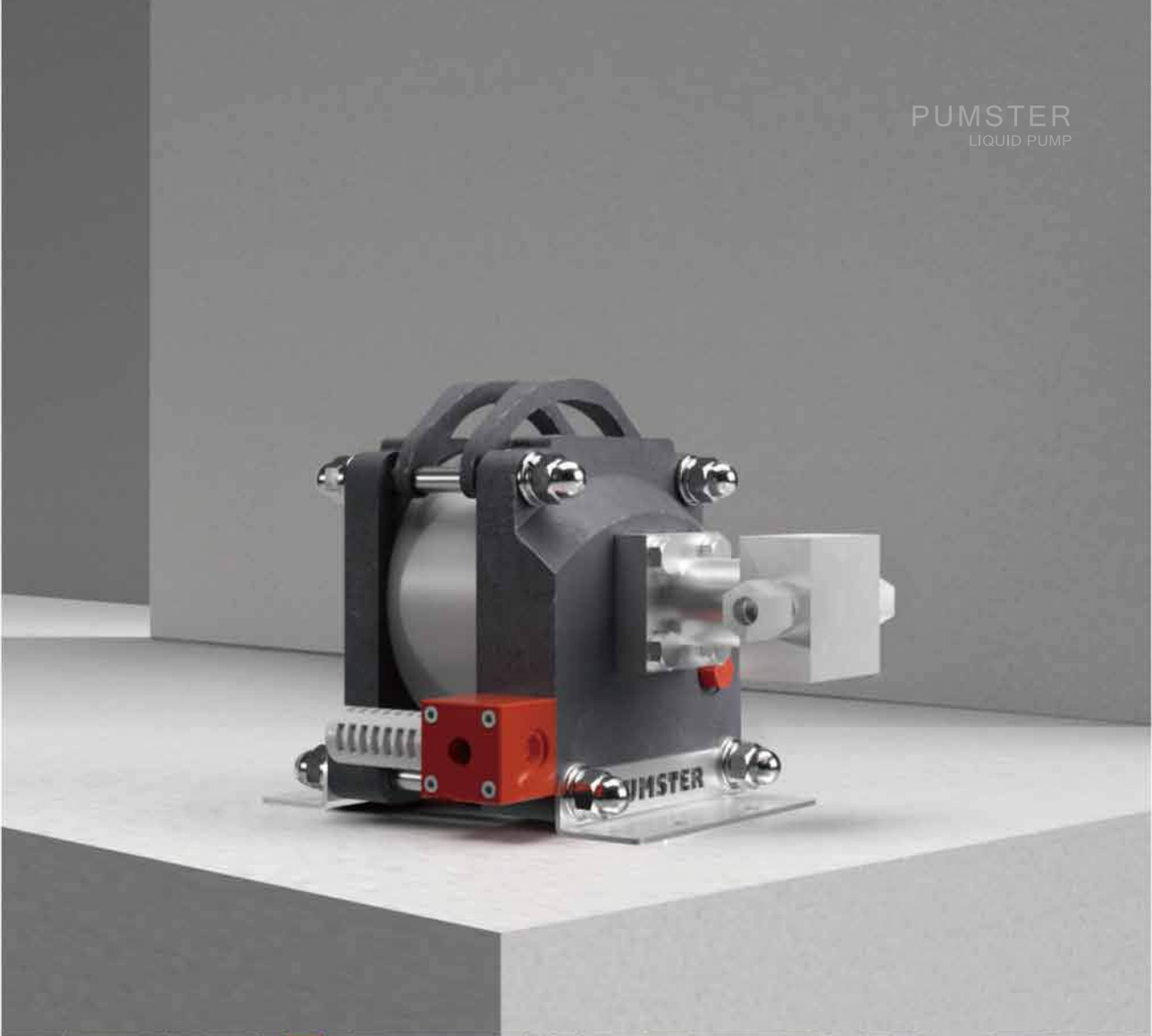
**Liquid pump** pressurizing through Cross-section ratio by Pascal's Law, create big energy by converting air pressure to straight reciprocal movement.

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

- For the compression of liquid substances such as water or oil.
- Guarantee more than 1M times of durability of main seal.
- 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.







# LSS SERIES

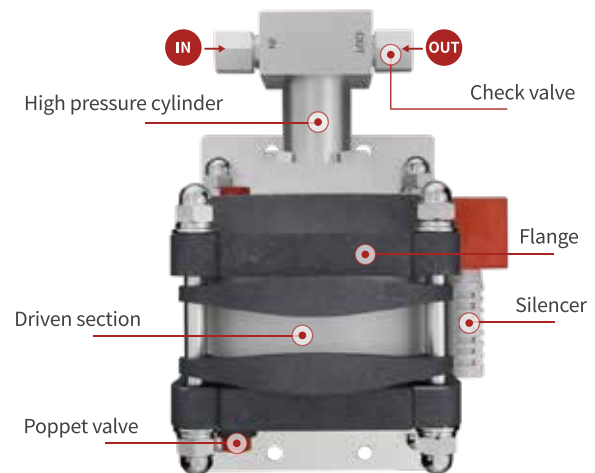
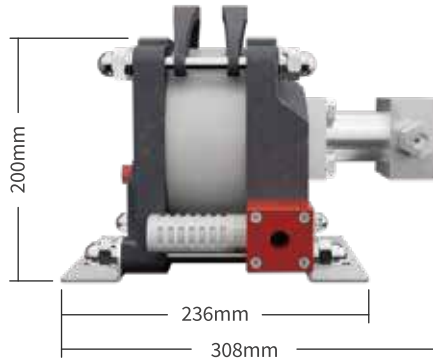
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Single stage & Single driven

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Liquid Pump LSS consists of single stage and single driven part.  
There are **5 types depending on compression ratio.**  
( compression ratio: 1 : 50 / 80 / 150 / 220 / 350 )

# LSS SPECIFICATION



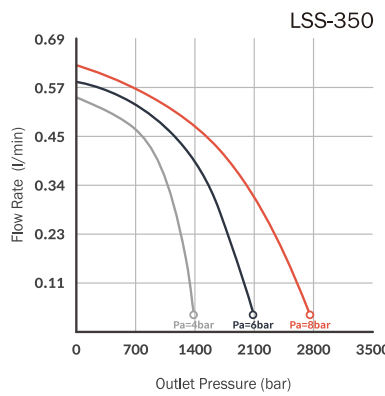
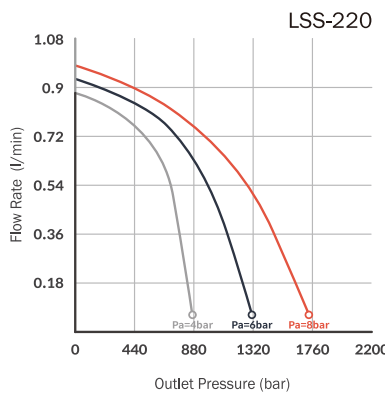
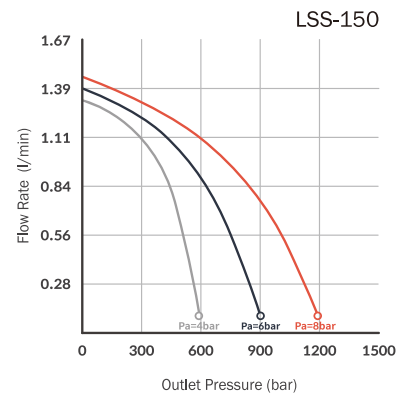
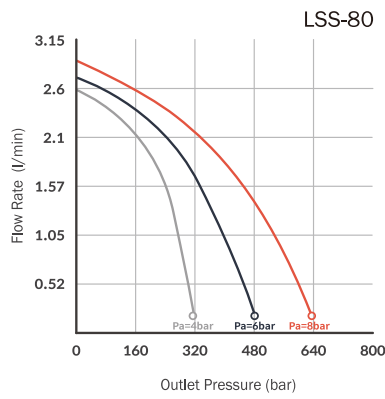
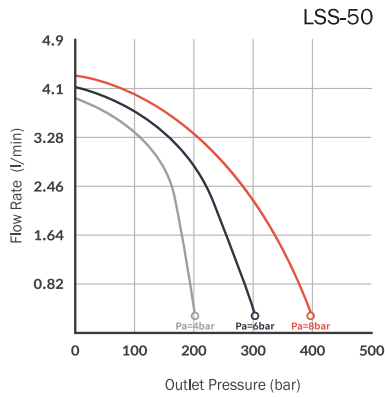
※ Please contact sales staff if you need further assistance.

Model	LSS - 50	LSS - 80	LSS - 150	LSS - 220	LSS - 350
Ratio	1 : 50	1 : 80	1 : 150	1 : 220	1 : 350
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10				
Max. Pressure (kg / cm <sup>2</sup> )	350	560	1,050	1,540	2,450
Connections (inlet / outlet)	1/2" PT / 1/2" PT		1/2" PT / 9/16" 18 UNF		
Weight (kg)	12				

※ 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.

# LSS PERFORMANCE CURVES



**Theoretical charging time formula**

Reservoir tank x atm = TAL

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

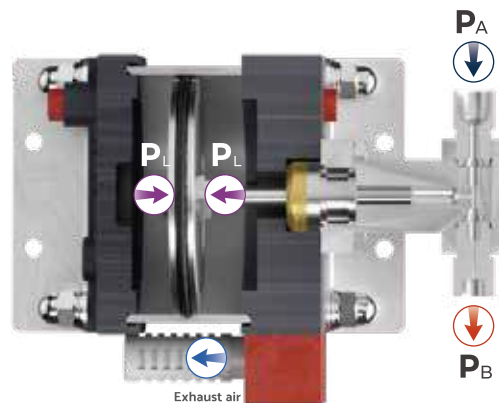
\* Outlet pressure (Pb) = I\*PI

(Outlet Pressure = Compression ratio · Air drive)

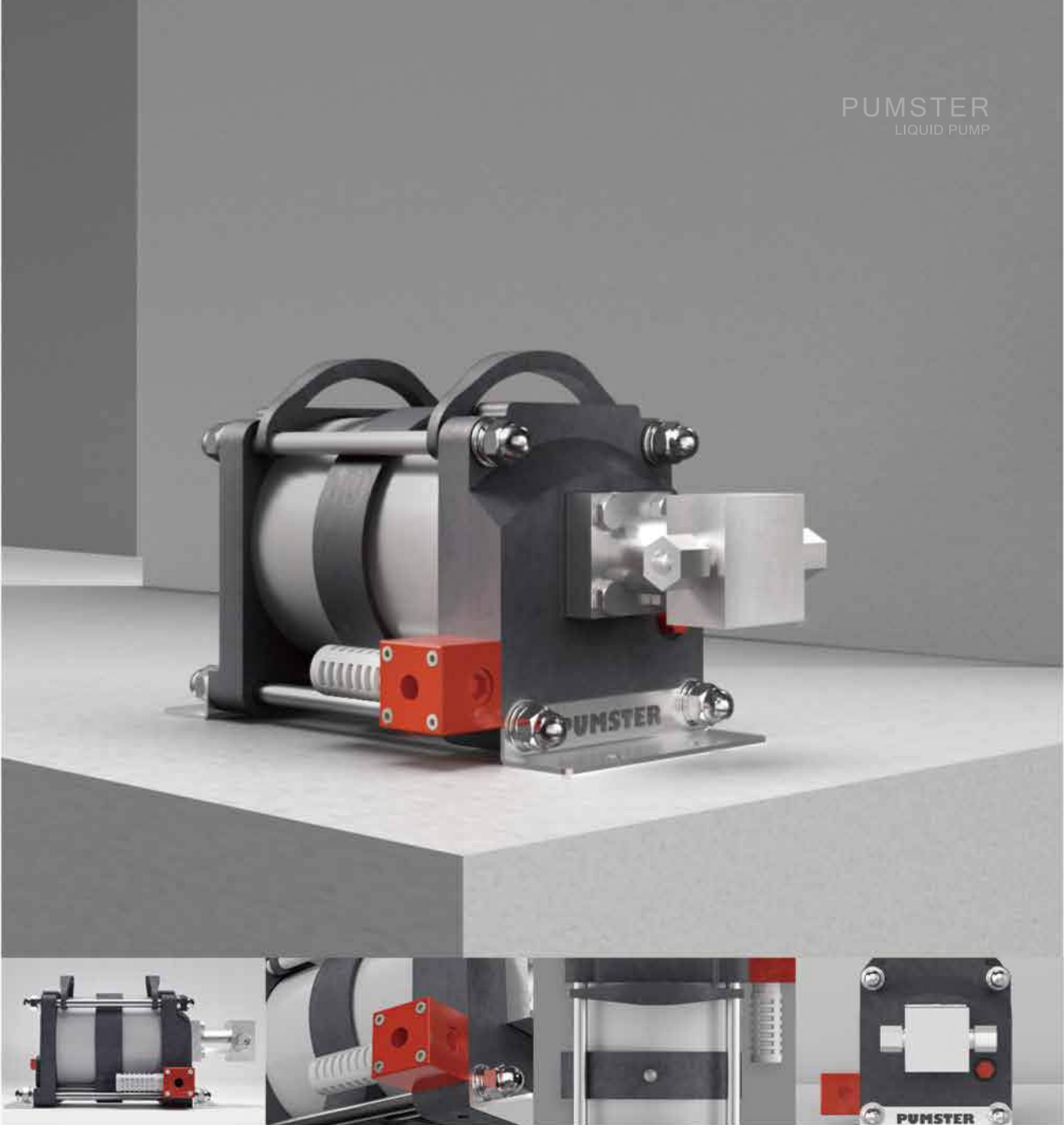
**Precautions**

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

# LSS OVERVIEW



- $P_A$  Suction liquid
- $P_B$  Discharging liquid
- $P_L$  Air drive



# LSD SERIES

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Single stage & Double driven

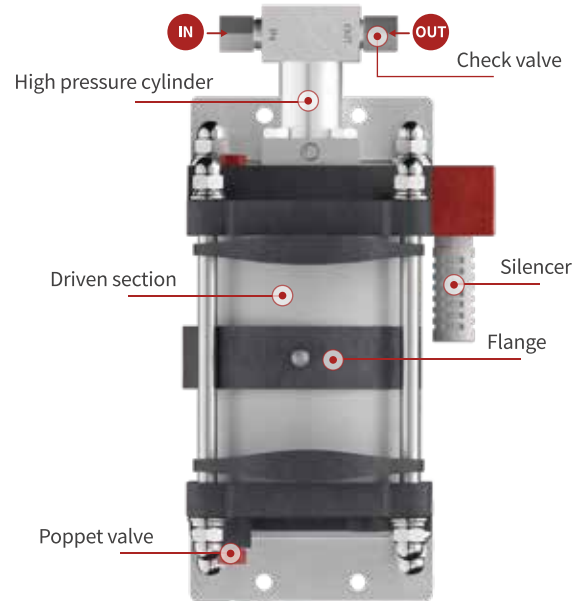
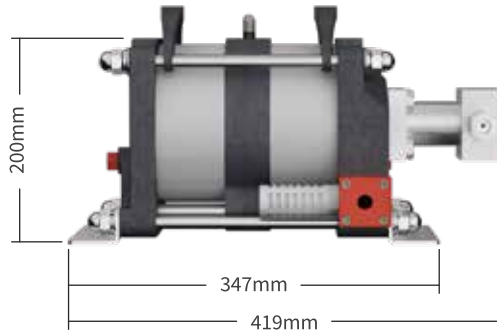
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Liquid Pump LSD consists of single stage and double driven parts.

There is **5 types depending on compression ratio.**

( compression ratio: 1 : 100 / 160 / 300 / 440 / 700 )

# LSD SPECIFICATION



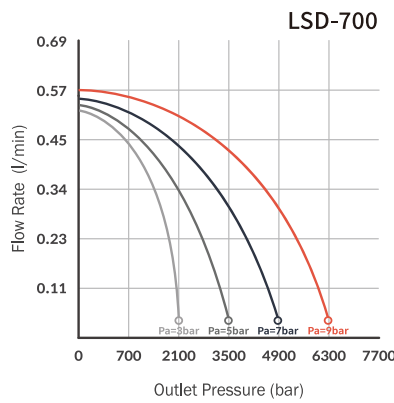
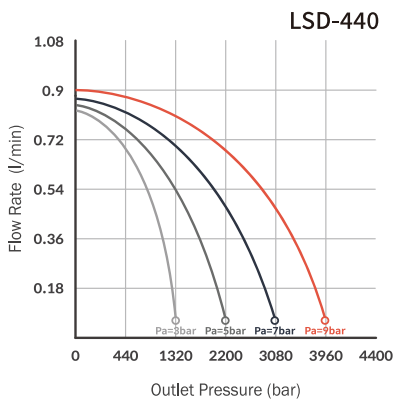
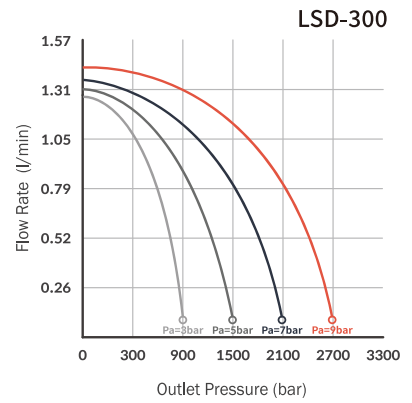
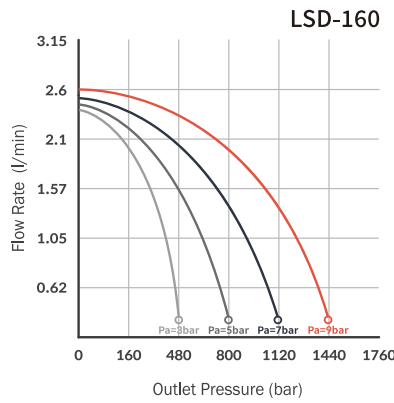
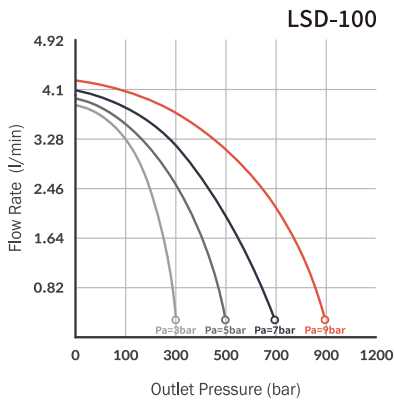
※ Please contact sales staff if you need further assistance.

Model	LSD - 100	LSD - 160	LSD - 300	LSD - 440	LSD - 700
Ratio	1 : 100	1 : 160	1 : 300	1 : 440	1 : 700
Air Drive Pressure (kg / cm <sup>2</sup> )	5 ~ 10				
Max. Pressure (kg / cm <sup>2</sup> )	700	1,120	2,100	3,080	4,900
Connections (inlet / outlet)	1/2"PT / 9/16" 18 UNF				
Weight (kg)	17				

※ 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.

# LSD PERFORMANCE CURVES



**Theoretical charging time formula**

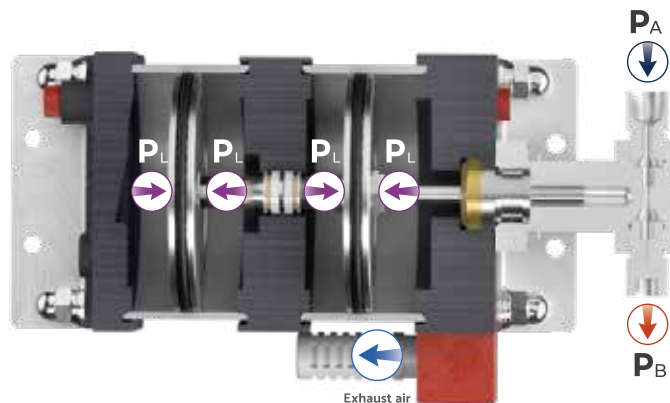
Reservoir tank x atm = TAL  
 TAL / (Flow rate/sec) = total charging time

\* 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 liquid pressure, feed rate
- Actual flow rate will be different depending on utility.

# LSD OVERVIEW



**PA** Suction liquid  
**PB** Discharging liquid  
**PL** Air drive



# LST SERIES

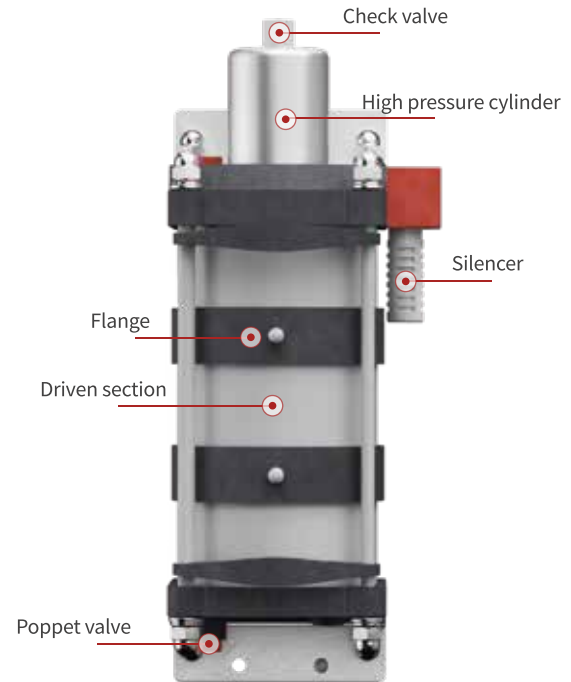
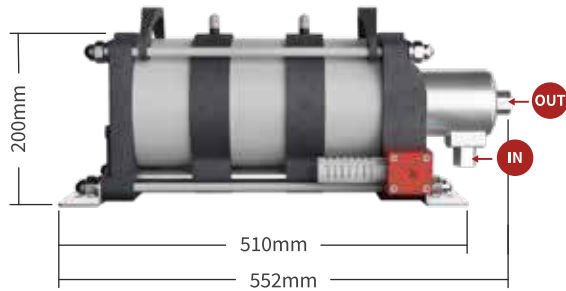
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Single stage & Triple driven

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Liquid Pump LST consists of single stage and triple driven parts.  
There is **1 type according to compression ratio.**  
( compression ratio: 1 : 1050 )

# LST SPECIFICATION



※ Please contact sales staff if you need further assistance.

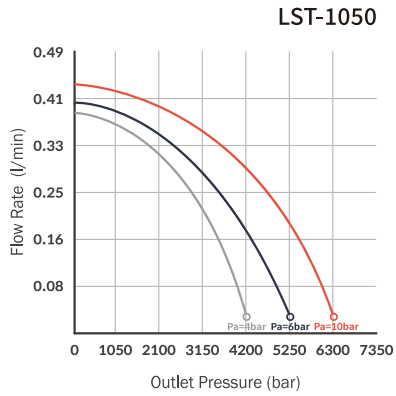
<b>Model</b>	<b>LST - 1050</b>
<b>Ratio</b>	1 : 1,050
<b>Air Drive Pressure (kg / cm<sup>2</sup>)</b>	5 ~ 10
<b>Max. Pressure (kg / cm<sup>2</sup>)</b>	7,350
<b>Connections (inlet / outlet)</b>	1/2" PT / 9/16" 18 UNF
<b>Weight (kg)</b>	25

※ 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.



# LST PERFORMANCE CURVES



### Theoretical charging time formula

Reservoir tank x atm = TAL

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

\* Outlet pressure (Pb) = I·PI

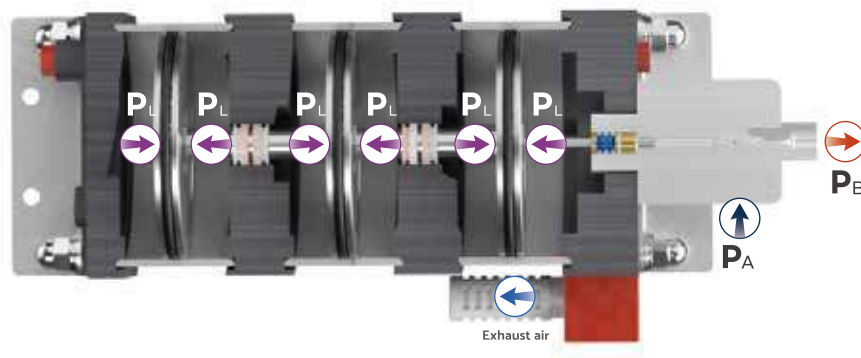
(Outlet Pressure = Compression ratio · Air drive)

### Precautions

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

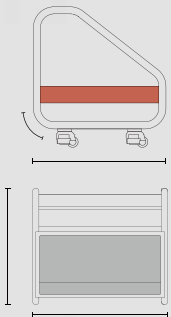
# LST OVERVIEW

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



/o  
DESIGNED  
AROUND YOU

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which is provided with order-made service.

# PRESSURE TESTING

Except for basic specification, we can provide Custom-made facility suitable for customer's purpose and usage by adding various options for convenient usage.



## Portable Pressure Testing

**compact testing with compact operation.**

Available for gases or liquids.

Applied in various application such as internal pressure, air tightness, leak, bursting.

Operated safely due to the safety valve when over pressure occurs.

Compact design with reasonable price.

Control with easy operation.

## Multipurpose Pressure Testing

**testing where fluids are filled in separate vessels for use control at the desired pressure.**

Available for gases or liquids.

Applied in various application such as internal pressure, air tightness, leak, bursting.

Be discharged by constant pressure (options: pressure vessel).

Operated safely due to the safety valve when over pressure occurs.

Be movable with casters.

Controlled with automatic or manual (option).



## Burst, leakage for Valves Testing

**pressure testing for leak and durability of valves and high pressure fitting.**

Limit measurement of fatigue&burst or leak testing.

Less pulsation with separate pressure vessel.

Increasing pressure of step by step and repeating test.

Operated safely due to double safety function.

Controlled with automatic or manual (option).

## Propane Pressure Testing

**propane pressure testing.**

For propane only.

Cooling compression heat through the cooling coil.

Be discharged by constant pressure (options : pressure vessel).

Operated safely due to the safety valve when over pressure occurs.





## Hydrostatic Testing

internal pressure and leakage testing.

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Hydrostatic (internal pressure and leak) testing.

---

Alarm function when the leak occurs under setting.

---

Increasing pressure of step by step and repeating test.

---

Check real-time the sample with CCTV or a monitor (options).

---

Operated safely due to double safety function when over pressure occurs.

---

Controlled with automatic or manual  
(in manual operation, it isn't available for leak alarm function and increasing pressure of step by step).

## External Pressure Testing

testing by pressuring to sample after increasing gas or liquid to separate pressure vessel.

---

Available for gas or liquid.

---

Available for external testing or molding by pressuring to sample.

---

Sensor/machinery of measure device, simulation like subsea, destructive testing.

---

Operated safely due to double safety function when over pressure occurs.

---

Controlled with automatic or manual  
(options : touch screen, cover(open/close),vent, etc).



## High Pressure Cleaning for Orifice Module

high pressure cleaning for solving nozzle blockage of orifice module.

---

Whole material of stand : Stainless steel

---

Easy detachment of orifice module.

---

Recycle of liquid with reservoir tank.

---

Control with easy operation.

## Oxygen Gas Filling

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For oxygen only.

---

Be economical by refilling oxygen.

---

Gas will be recycled to gas suction by safety valve when over pressure occurs.





## Bolt Tensioner Pump

**bolt tensioner pump to tight the bolt tensioners.**

Lightweight pump with hydraulic pressure for easy and quick bolting operation and movement.

Compact design consisting of pressure gauge, valves, regulators.

Be applied in various industry such as oil&gas, subsea, wind turbin, etc.

Model	Max.pressure(bar)	Weight(kg)	Dimension(mm)		
			length	width	height
PBT-1500	1,500	27	488	337	378
PBT-2100	2,100				

## Pressure Testing for Rental

**available for rental.**

Available for rent when users want period.

Available for gas or liquid.

Applied in various application such as internal pressure, air tightness, leak, bursting.

Operated safely due to the safety valve when over pressure occurs.



## Liquid and Nitrogen Injection System

**available for injecting, collecting and recycling of liquid and using the vacuum and nitrogen.**

All-in-one for injecting, collecting and recycling of liquid.

Injection for liquid and the vacuum.

Precision test of undersea acoustic sensor.

## Special Pressure Testing Equipment

**testing for internal pressure and leak of liquid.**

Produced with special purpose to meet customers' requirement.



APPLICATION

“ **Pumster products**  
which was applied in  
various application



Leak testing in  
explosion proof purpose



Bursting testing



Leak testing



- Autoclave increasing(N<sub>2</sub>)
- CIP(Cold Isostatic Press )



**Testing module for torpedo maintenance**



**Testing module for increasing pressure hydrogen(H<sub>2</sub>)**



**Testing module for increasing pressure and filling and spraying with propane and butane**



**Testing module for increasing pressure and re-filling ethylene with 500L**



**Testing module for secondary increasing pressure and filling from low-pressure compressor**



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