ITEM **2022**

GAS BOOSTER
LIQUID PUMP
PRESSURE TESTING

PRODUCT
CATALOG

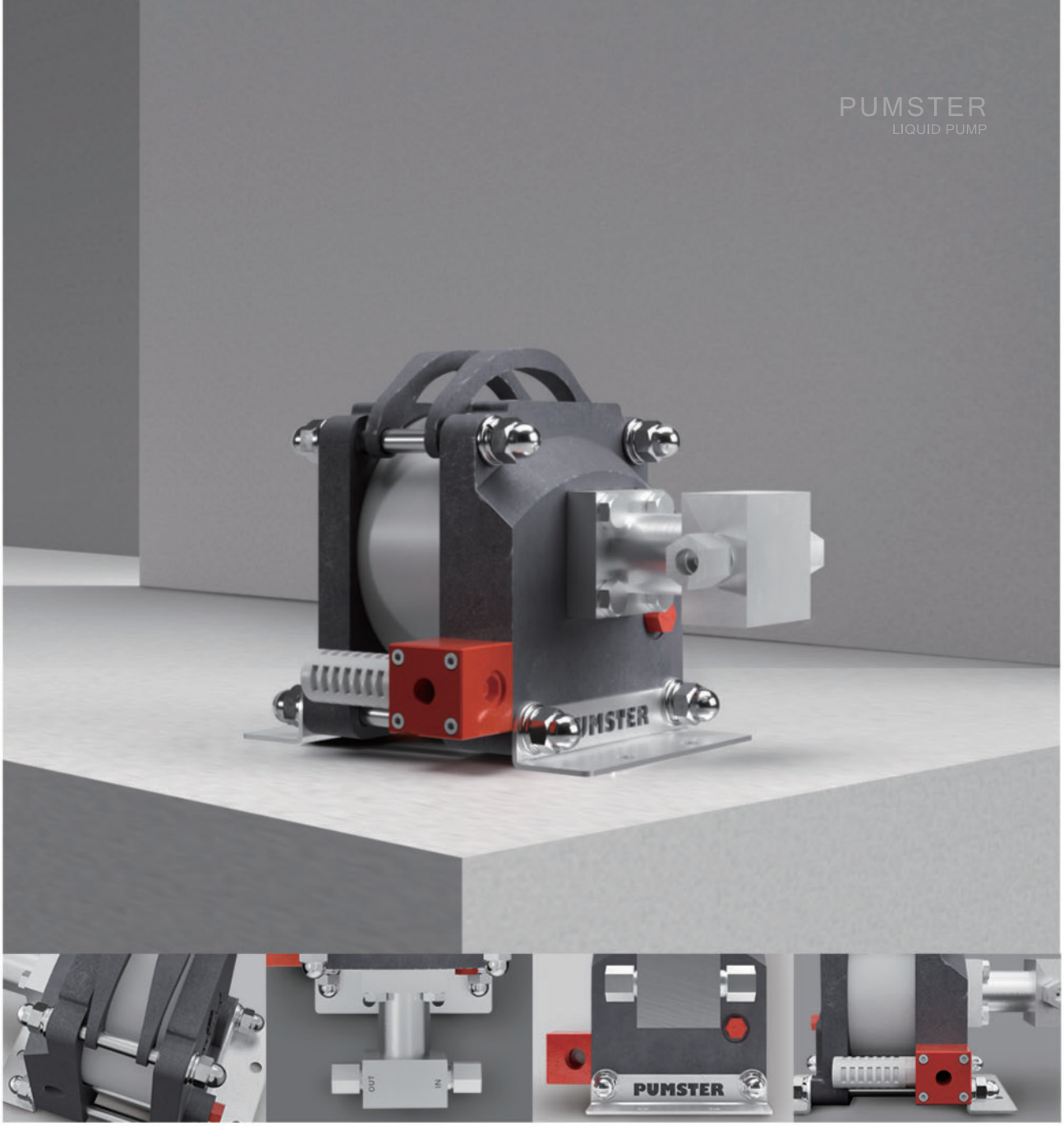
pumster
INDUSTRY LEADER IN PUMP & BOOSTER

LIQUID PUMP

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.
- Gurantess 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 accoring to using pressure and flow rate.

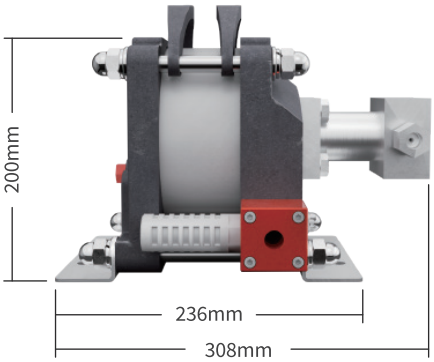


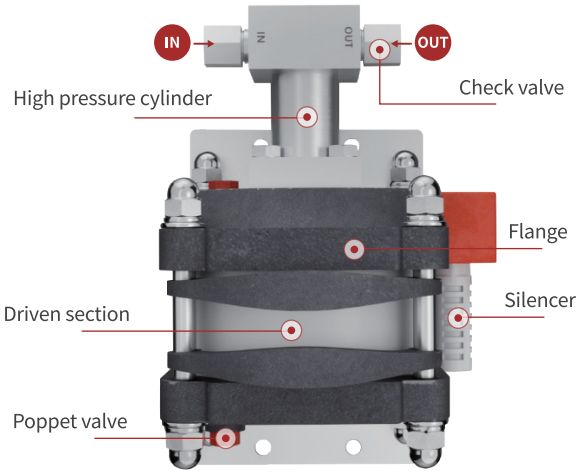
LSS SERIES

Single stage & Single driven

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



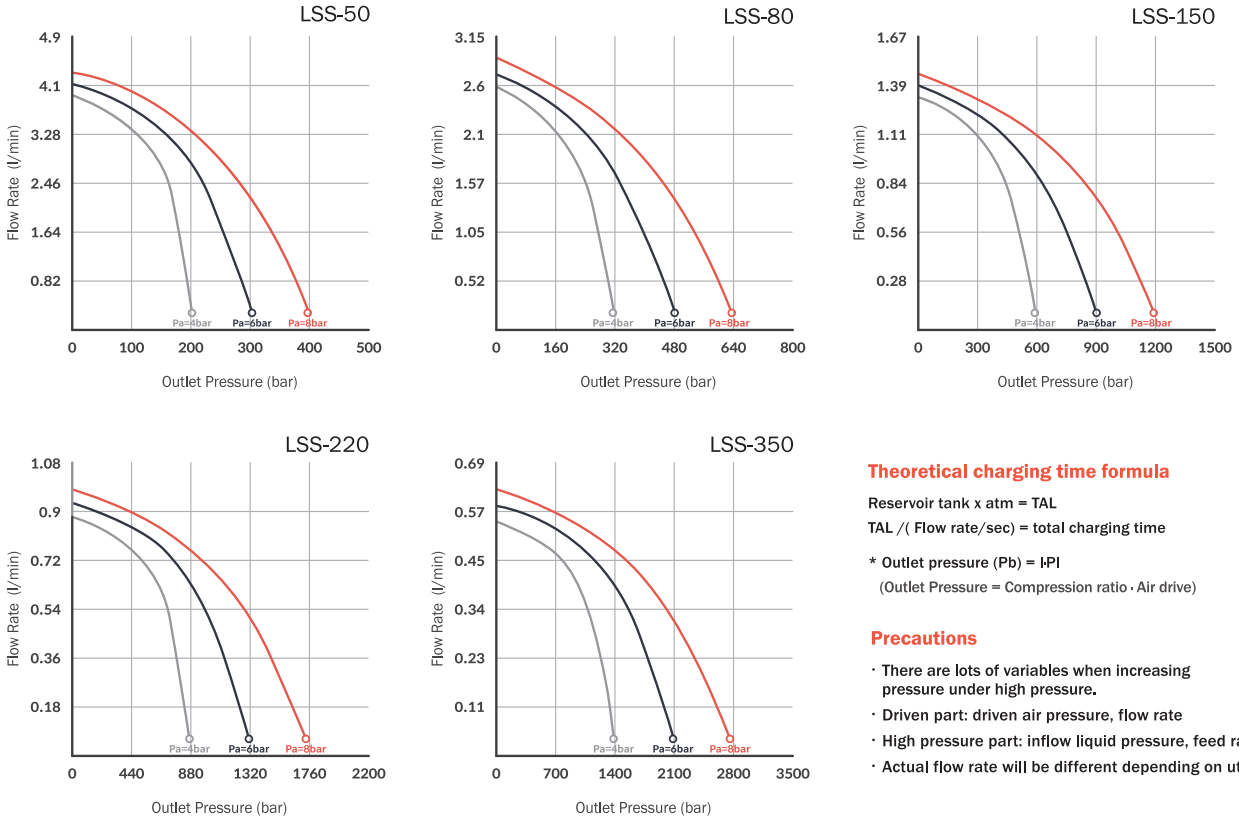


※ Please contact sales staff if you need further assistance.

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 / ㎠)	5 ~ 10				
Max. Pressure (kg / ㎠)	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/㎠) = Ratio * Air Drive Pressure(kg/㎠) ※ 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

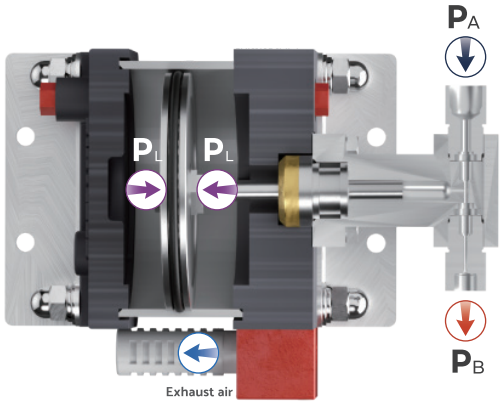
- There are lots of variables when increasing pressure under high pressure.
- Driven part: driven air pressure, flow rate
- High pressure part: inflow liquid pressure, feed rate
- Actual flow rate will be different depending on utility.

LSS
OVERVIEW

P_A Suction liquid

P_B Discharging liquid

P_L Air drive



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ILSHIN AUTOCLAVE HiFLUX® KACECO HiPPo High Pressure Processing