

# Air-Driven, High Pressure Liquid Pump

## Series ASL400-01

*Single-Acting, Single Piston Air Drive*

### Technical Data: Liquid Side Specifications

- Service: *Oil, Water or Water/Oil mixture and other fluids depending on material compatibility*
- Maximum Outlet Pressure: *57,700 psi (3,978 bar)*
- Air to Liquid Pressure Ratio: *1:398*
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: *0.14 in<sup>3</sup> (2.3 cm<sup>3</sup>)*
- Inlet Connection: *1/2" FNPT*
- Outlet Connection: *Autoclave F250C-1/4" Female High Pressure*  
*(Contact Autoclave Engineers for Additional Options)*

### Technical Data: Air Side Specifications

- Air Drive Pressure Range: *15-150 psi (1-10 bar) \*See note1*
- Nominal air pressure required for 57,700 psi (3,978 bar) output pressure is 145 psi (10 bar)
- Inlet Port: *1/2" FNPT*
- Pilot Port: *1/8" FNPT (unregulated air)*
- Exhaust Port (muffler removed): *1/2" FNPT*
- Air Consumption @ 90 psi: *70 SCFM*
- Prelubricated at Factory

### General Specifications

- Maximum Operating Temperature: *0-140° F (-18° to 60° C)*
- Net Weight without Isolation Chamber: *32 lbs. (14.5 kg)*
- Net Weight with Isolation Chamber: *41 lbs. (18.6 kg)*
- Pressure Head: *15-5 PH Stainless Steel*
- Stainless steel plunger utilizing a proprietary multi-layer carbon based coating with diamond like carbon exterior layer - 3 times the hardness of stellite with a coefficient of friction equal to/less than PTFE
- Check Valve Glands: *15-5 PH Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

#### Notes:

1. *Maximum air drive pressure is limited by maximum output pressure.*
2. *Alternative materials for wetted parts and seals are available, please contact Autoclave Engineers for additional information.*



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MADE IN THE U.S.A.



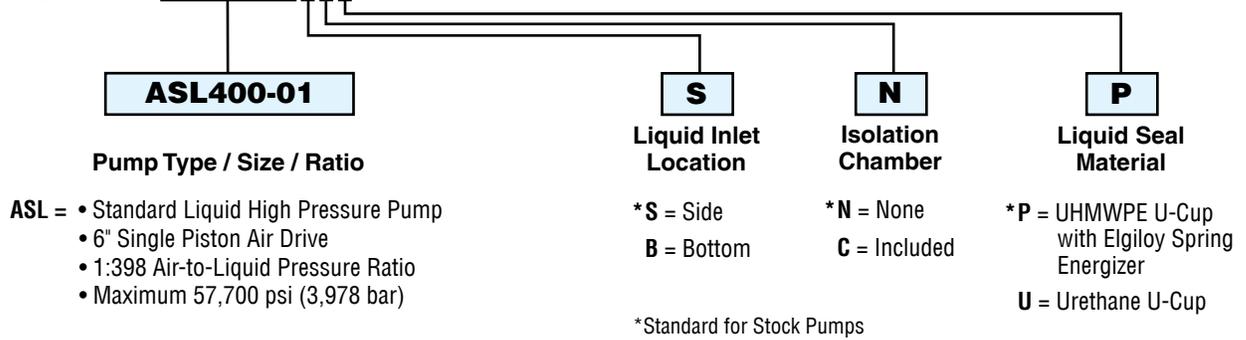
**Single-Acting, Single Piston Air Drive**

Bottom Inlet Shown

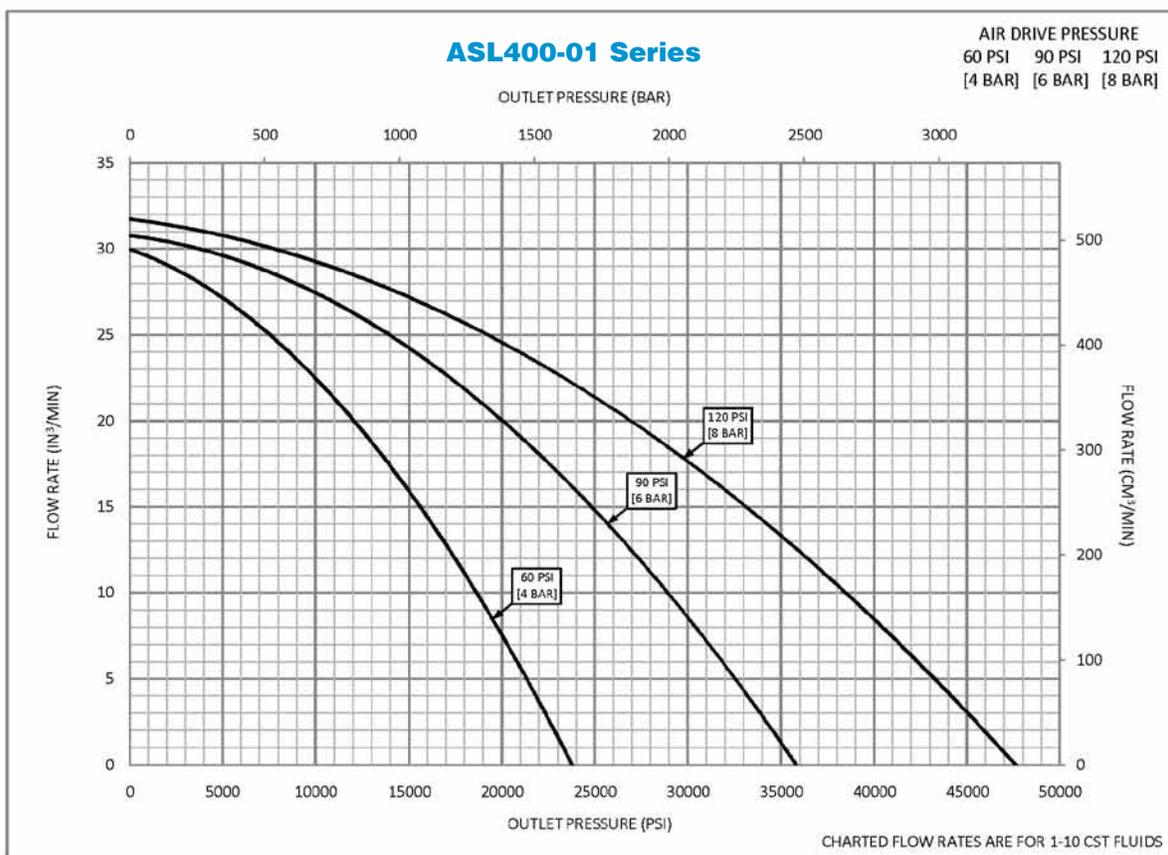
## Ordering Guide:

For complete information on available pump options, contact Autoclave Engineers.

Typical catalog number: **ASL400-01SNP**

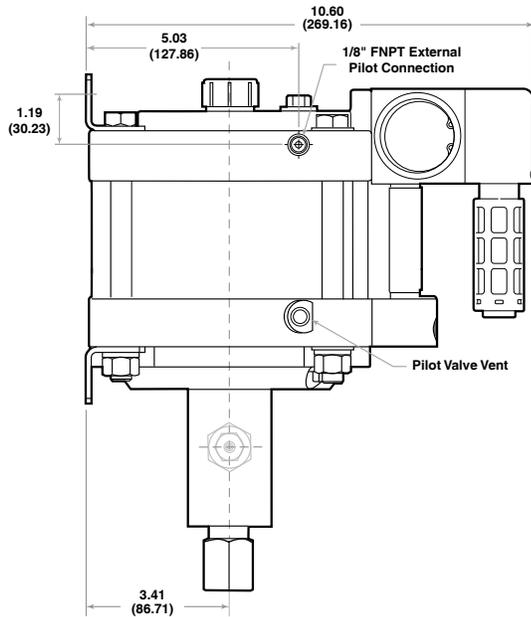


## Flow Rate vs. Outlet Pressure:

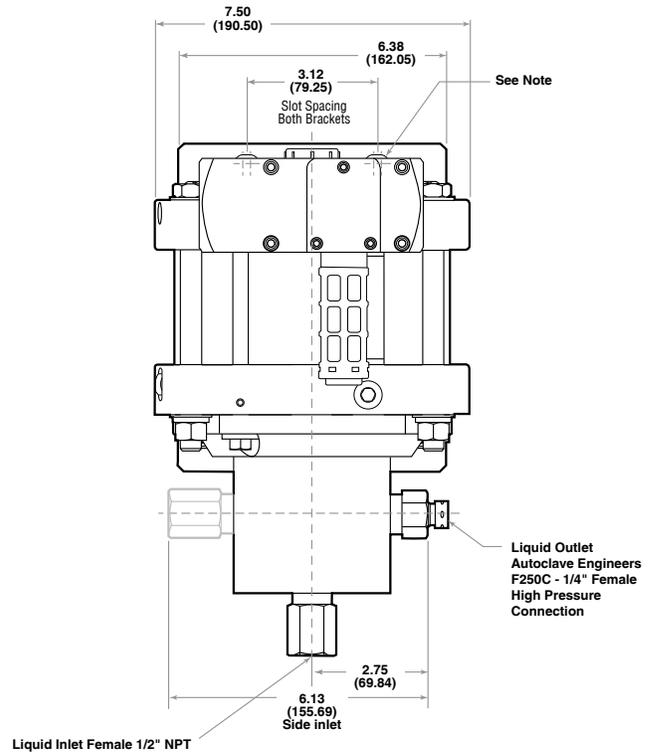


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

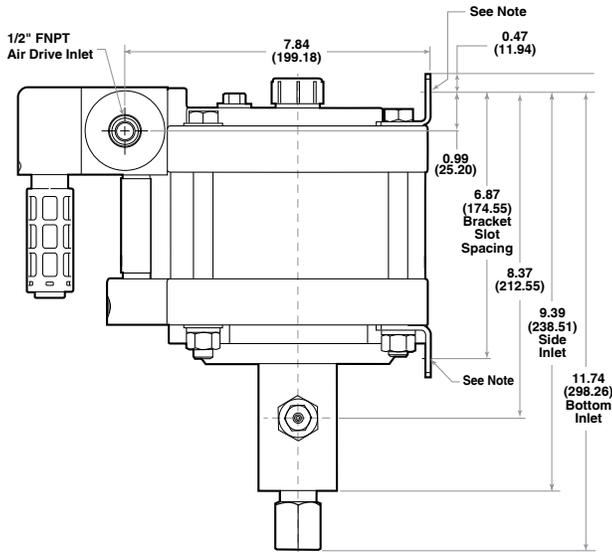
## Dimensional Data:



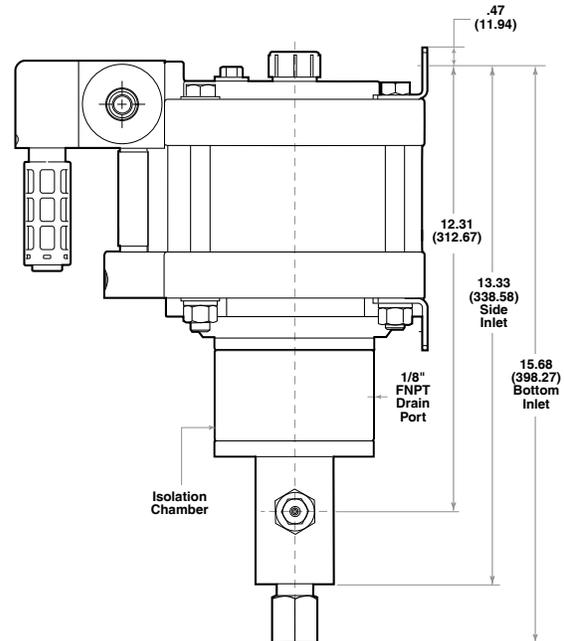
Left View



Front View



Right View



Right View with Optional Isolation Chamber

### Note:

Each Mounting Bracket includes (2) x 13/32" (10.32) Slots for 3/8" Bolts.  
 Bottom Inlet Pump Head and Side Inlet Pump Head are mutually exclusive.  
 All dimensions are for reference only and are subject to change without notice.

Primary Dimensions: Inches  
 Secondary Dimensions: (Millimeters)

## Accessories Available:

- Air Control Packages
- Pneumatic Pilot switches and Solenoid Valves
- Stroke Counter
- Relief Valve / Safety Heads
- Complete line of High Pressure Components - Valves, Fittings & Tubing
- Spare Parts
- Service



Typical Air Control Package



For complete information on available high pressure accessories, please contact Autoclave Engineers.

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

### ! WARNING !

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