

Air-Driven, High Flow, High Pressure Liquid Pump

Series ASL10-01

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: *1,600 psi (110 bar)*
- Air to Liquid Pressure Ratio: *1:11*
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: *5.22 in³ (85.5 cm³)*
- Inlet Connection: *1" FNPT*
- Outlet Connection: *1/2" FNPT Female NPT*
(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 1,600 psi (110 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: *69 SCFM*
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: *0-140° F (-18° to 60° C)*
- Net Weight without Isolation Chamber: *38 lbs. (17.2 kg)*
- Net Weight with Isolation Chamber: *Consult Factory*
- 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: *316 Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

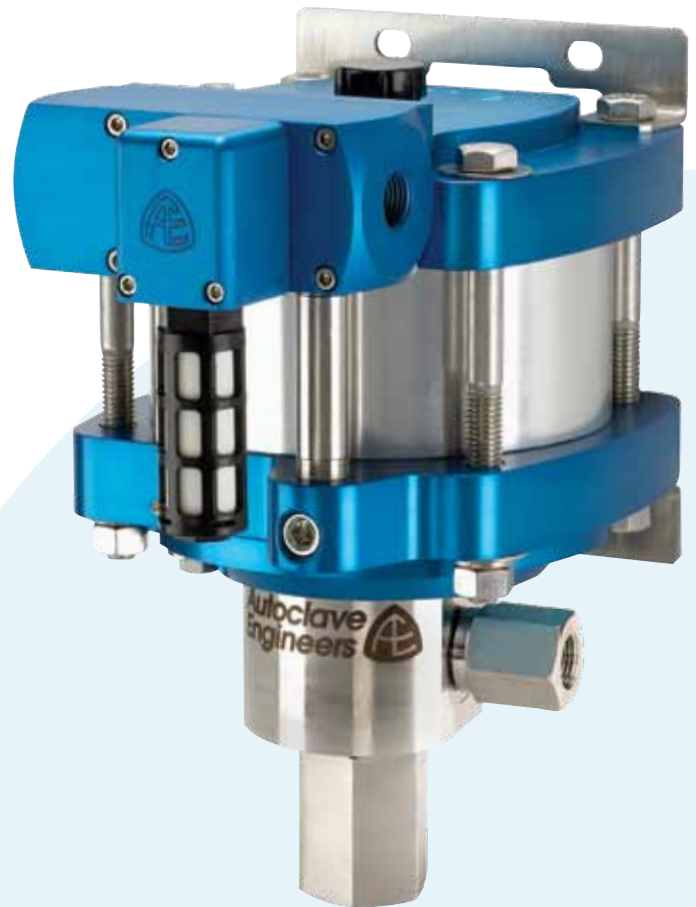
Notes:

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.*



Fluid Components
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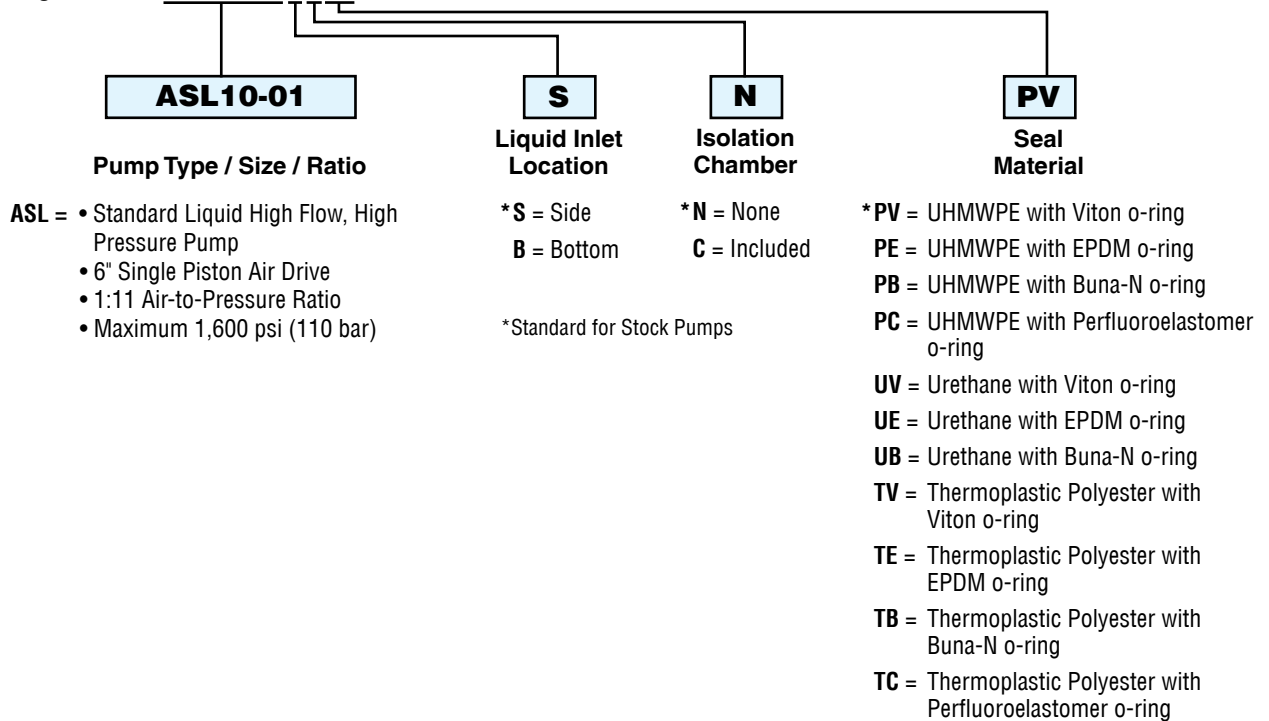
Single-Acting, Single Piston Air Drive Pump

Bottom Inlet Shown

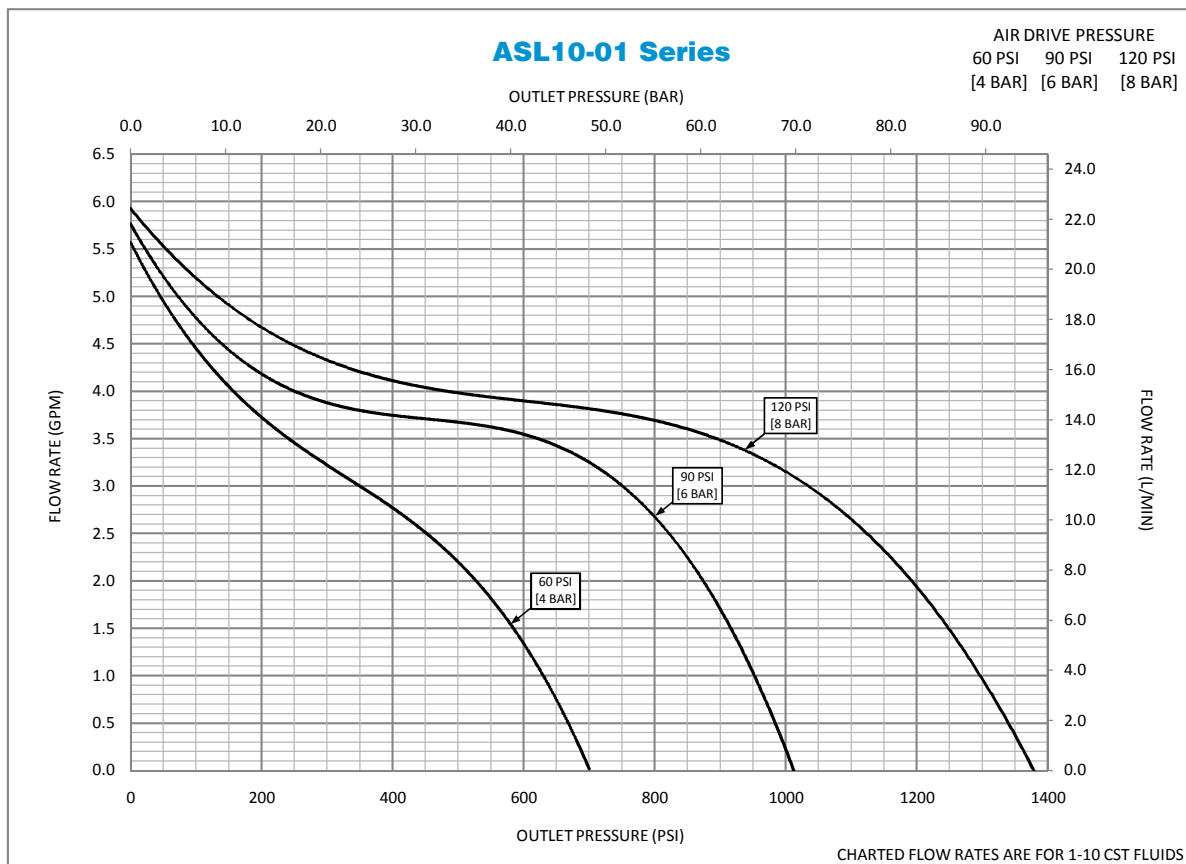
Ordering Guide:

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

Typical catalog number: **ASL10-01SNPV**

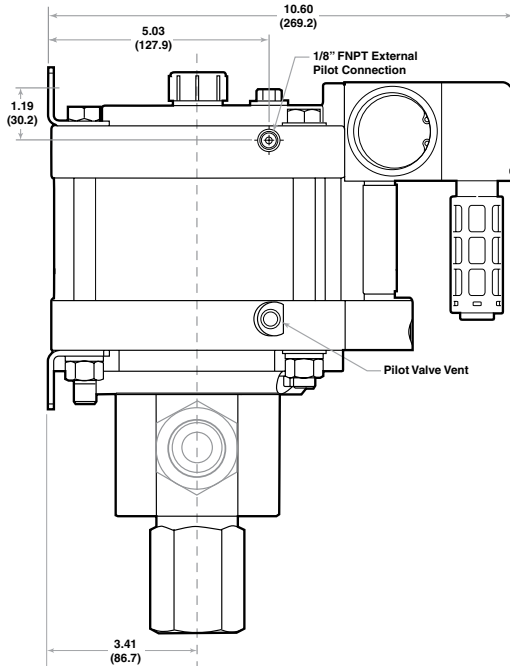


Flow Rate vs. Outlet Pressure:

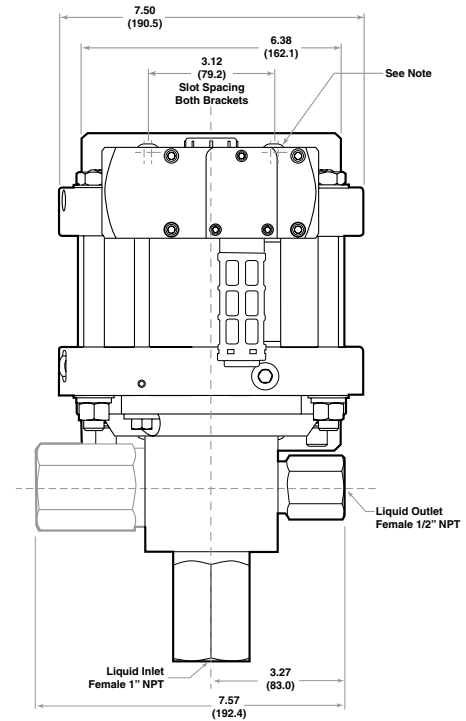


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

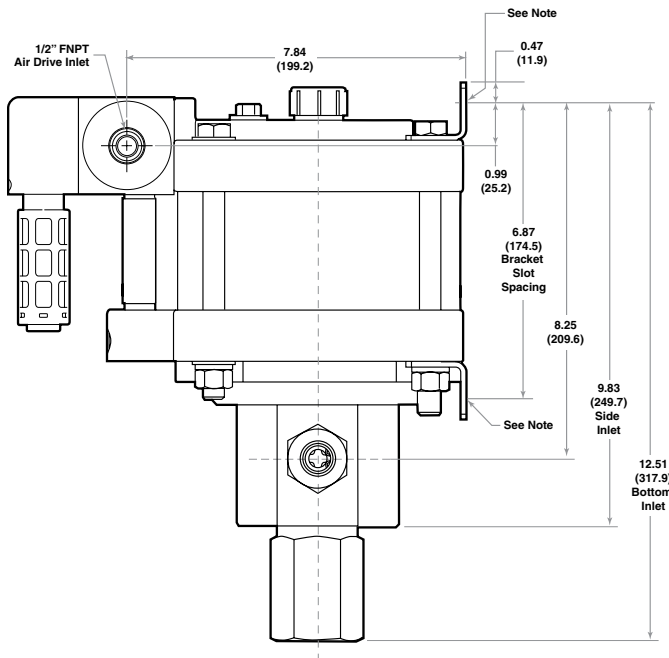
Dimensional Data:



Left View



Front View



Right View

Optional Isolation Chamber

Contact factory for mounting dimensions of the isolation chamber version.

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.

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! WARNING !

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