



ASL Pumps Standard 6" Air Driven Liquid

Product Catalogs

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

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 Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: *15-150 psi (1-10 bar) *See note*
- 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: *50 lbs. (22.7 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: *316 Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



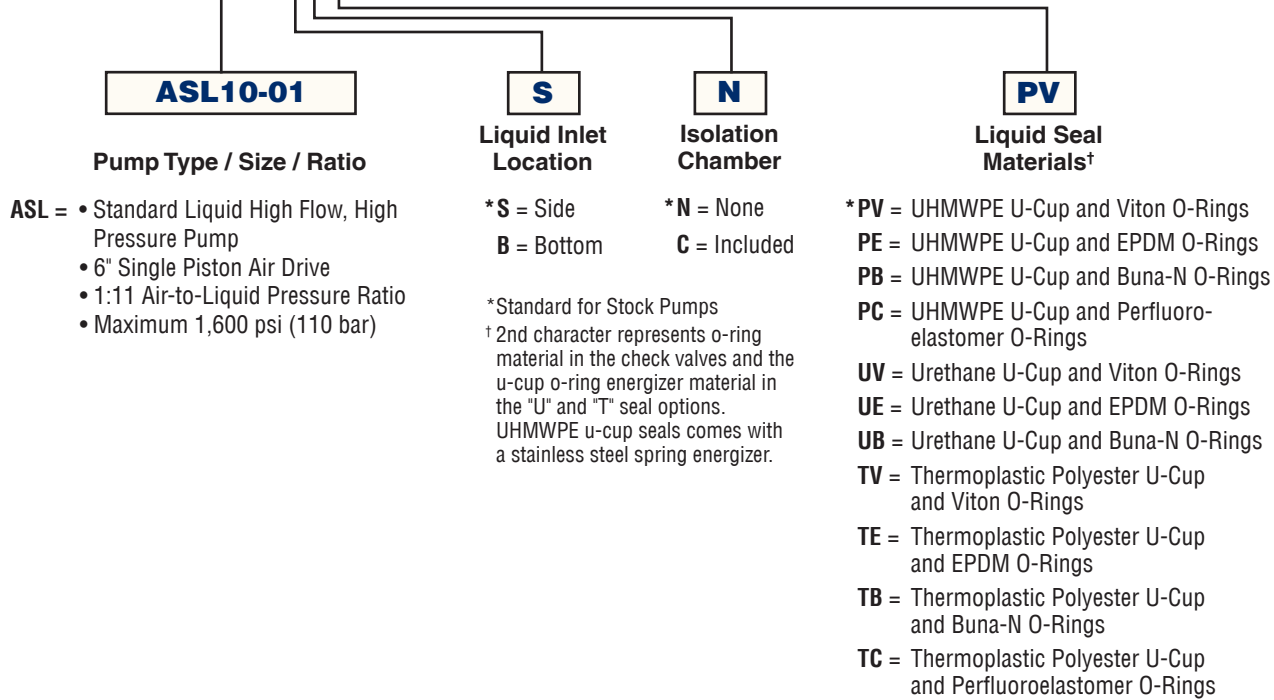
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Single-Acting, Single Piston Air Drive Pump
Bottom Inlet Shown

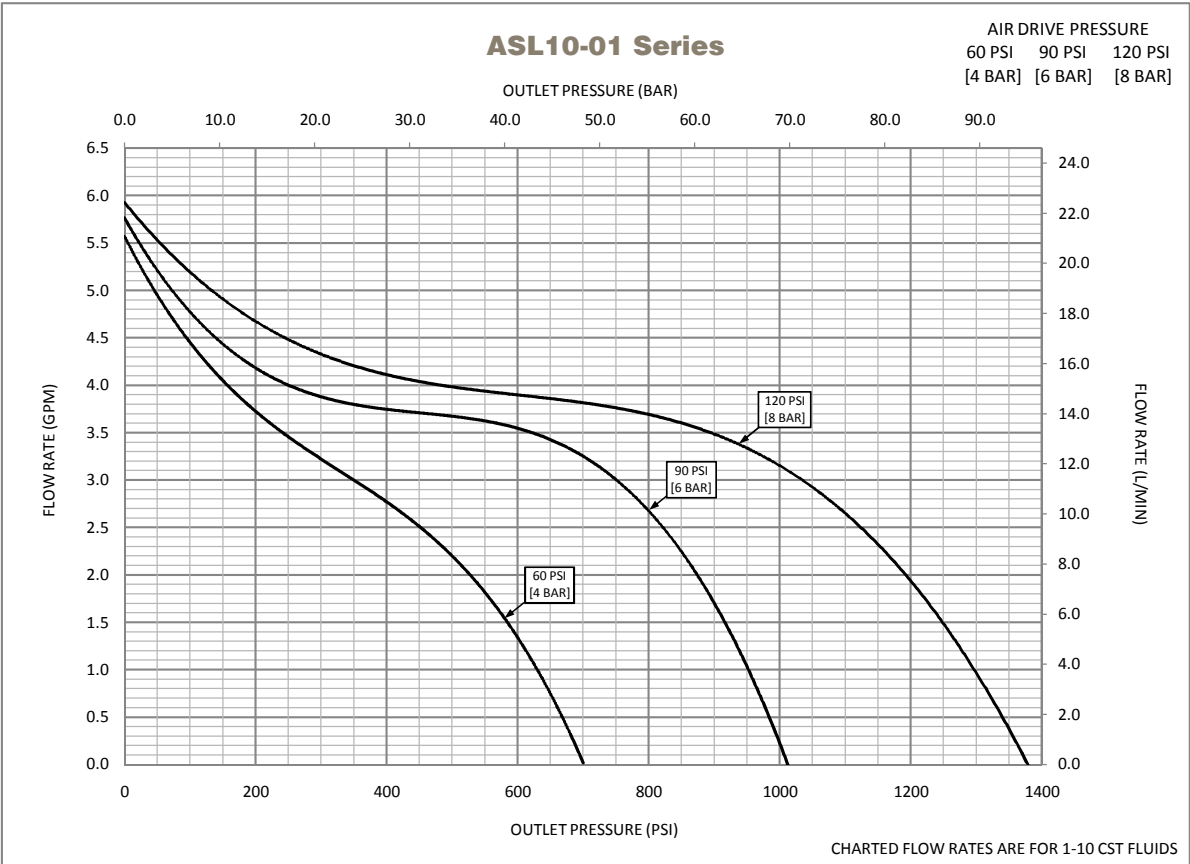
Ordering Guide:

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

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

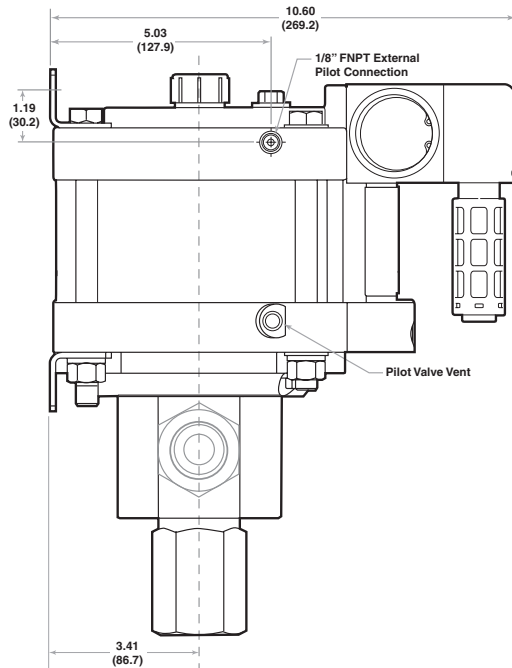


Flow Rate vs. Outlet Pressure:

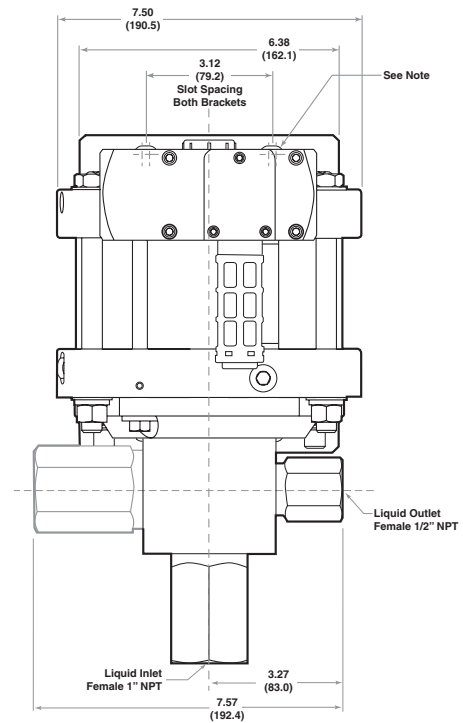


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

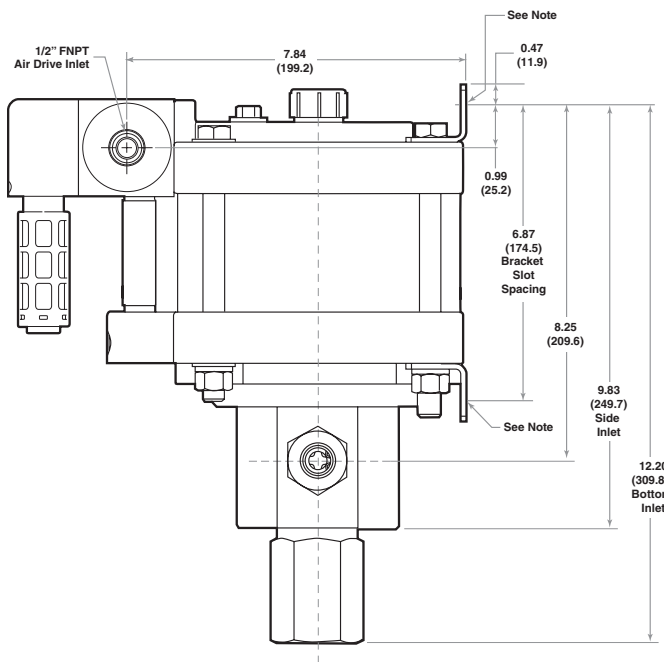
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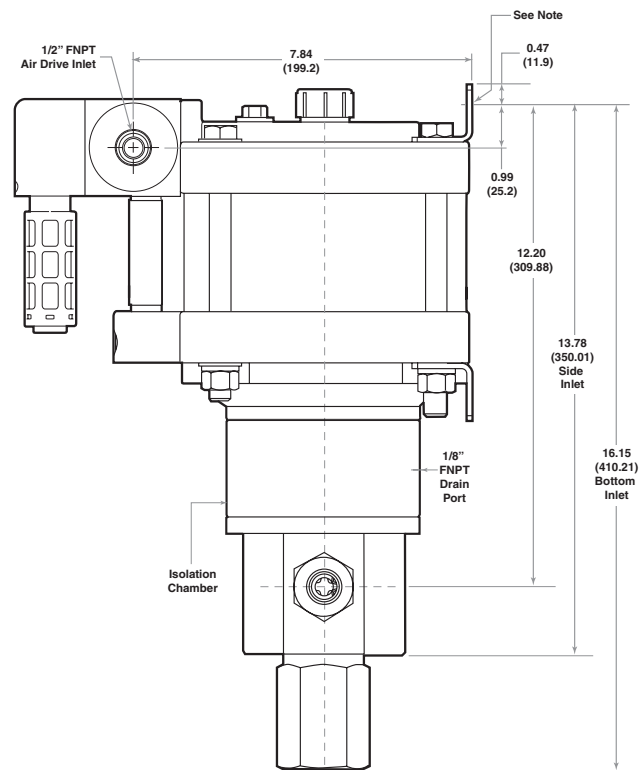
Left View



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 Parker Autoclave Engineers.

WARNING

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January 2013



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ISO-9001 Certified

Air-Driven, High Flow, High Pressure Liquid Pump - Series ASL10-01

Air-Driven, High Pressure Liquid Pump

Series ASL10-02

Single-Acting, Dual 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: *3,200 psi (221 bar)*
- Air to Liquid Pressure Ratio: *1:22*
- 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*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: *15-150 psi (1-10 bar)* *See note
- Nominal air pressure required for 3,200 psi (221 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: *61 SCFM*
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: *0-140° F (-18° to 60° C)*
- Net Weight without Isolation Chamber: *49 lbs. (22.2 kg)*
- Net Weight with Isolation Chamber: *61 lbs. (27.1 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: *316 Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

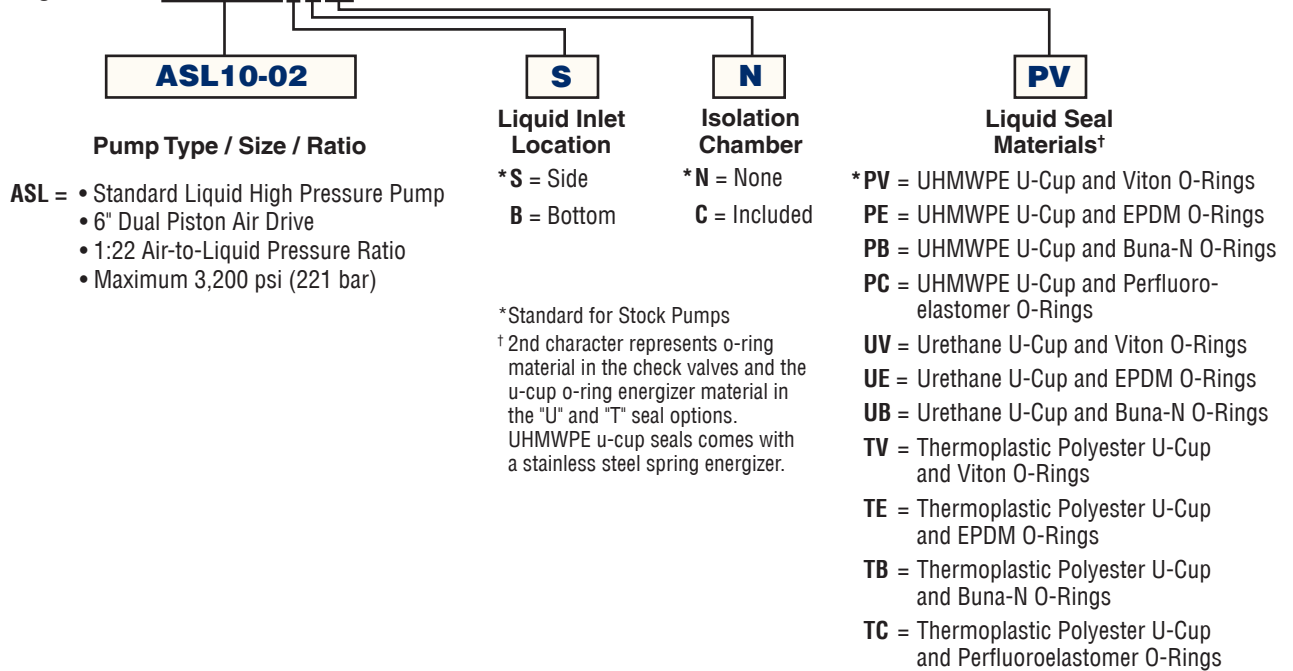


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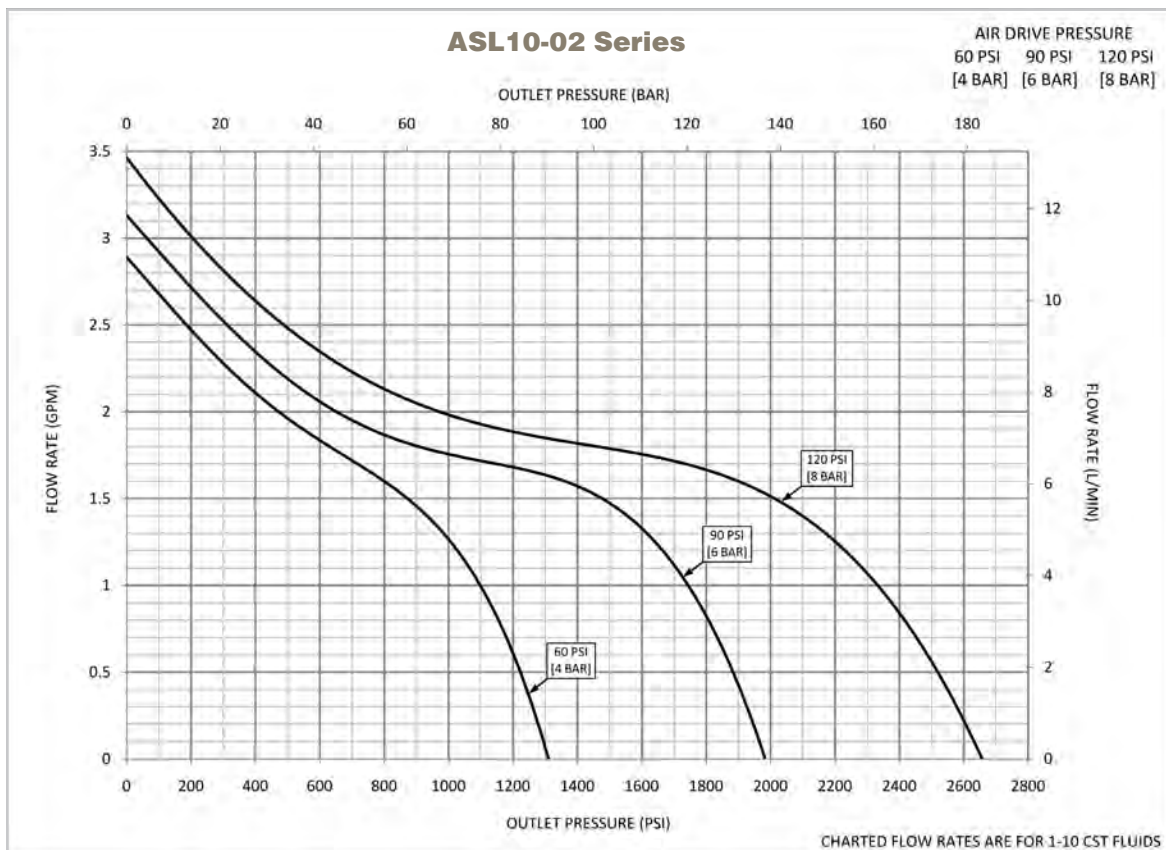
Ordering Guide:

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

Typical catalog number: **ASL10-02SNPV**

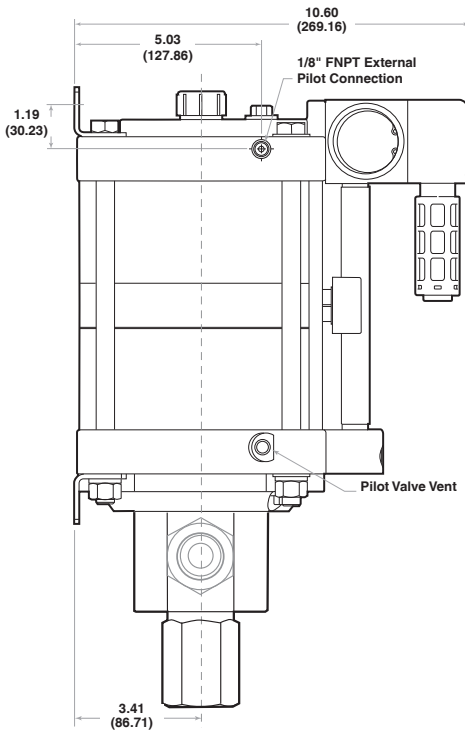


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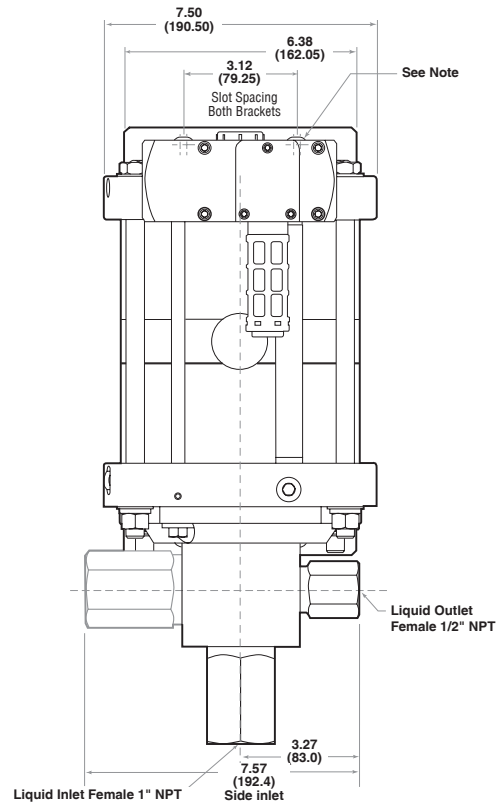


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

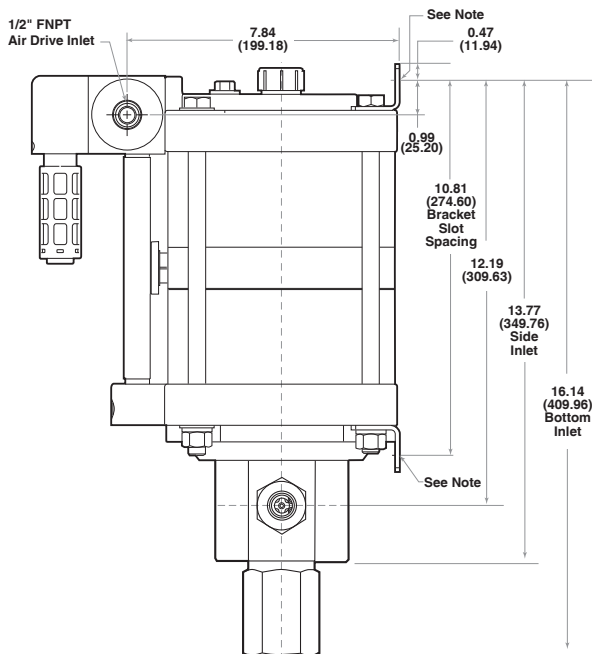
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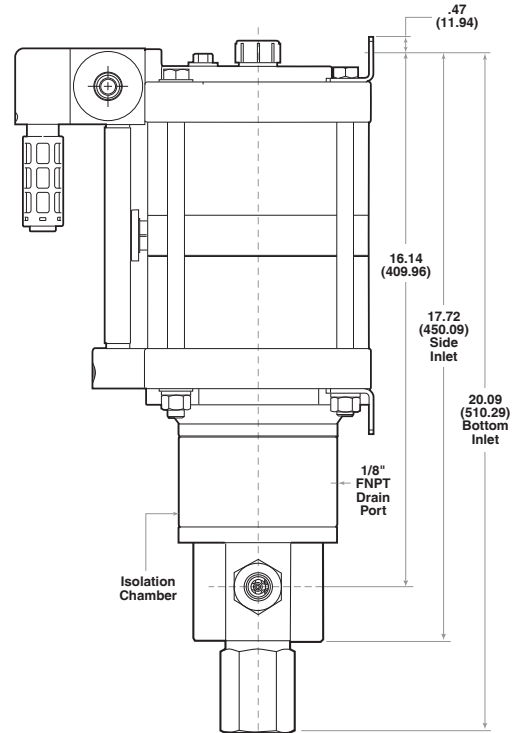
Left View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL10-02

Air-Driven, High Flow, High Pressure Liquid Pump

Series ASL15-01

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: *2,300 psi (159 bar)*
- Air to Liquid Pressure Ratio: *1:16*
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: *3.62 in³ (59.3 cm³)*
- Inlet Connection: *1" FNPT*
- Outlet Connection: *1/2" FNPT Female NPT*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: *15-150 psi (1-10 bar)* *See note
- Nominal air pressure required for 2,300 psi (159 bar) output pressure is 144 psi (9.9 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: *50 lbs. (22.7 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: *316 Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



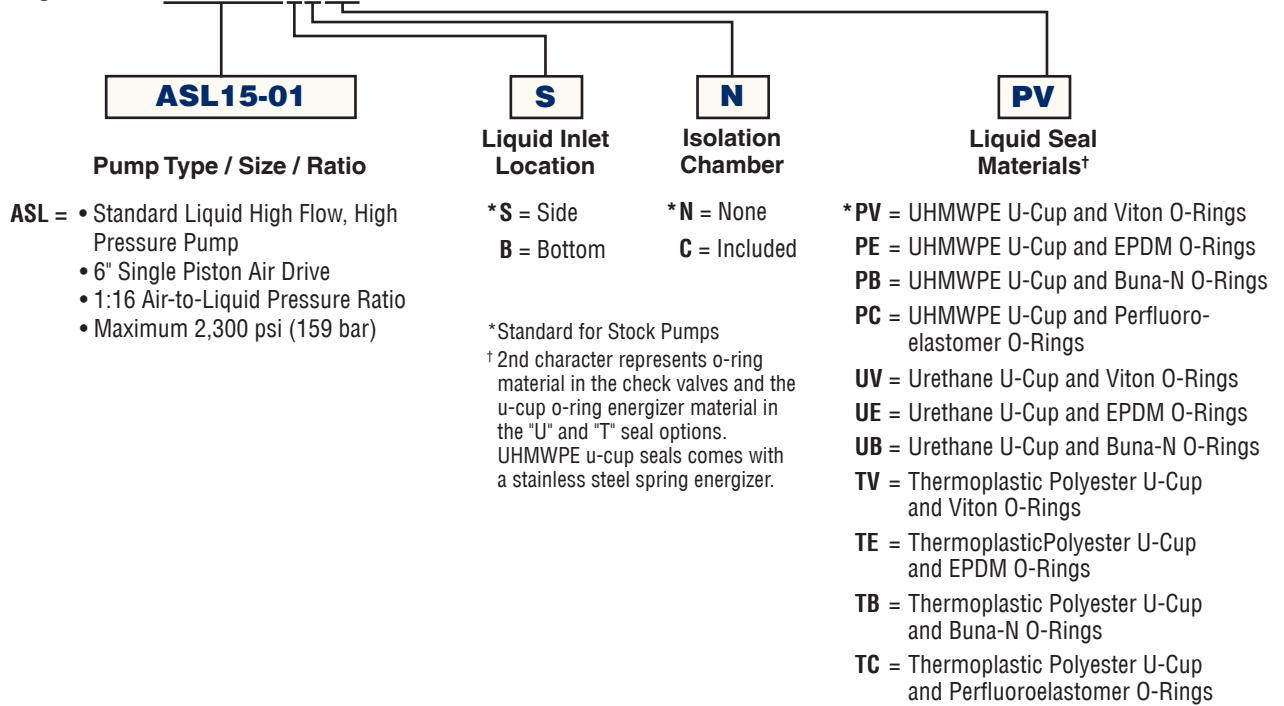
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Single-Acting, Single Piston Air Drive Pump
Bottom Inlet Shown

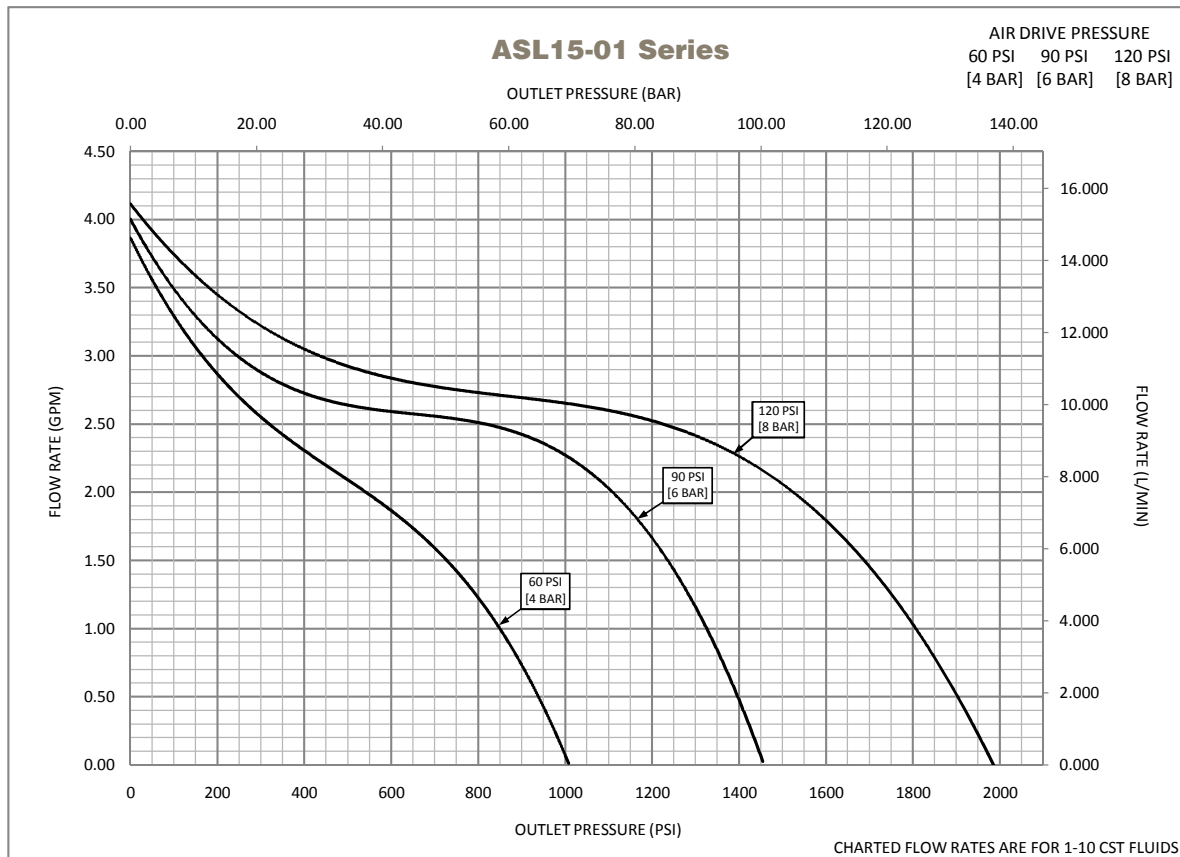
Ordering Guide:

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

Typical catalog number: **ASL15-01SNPV**

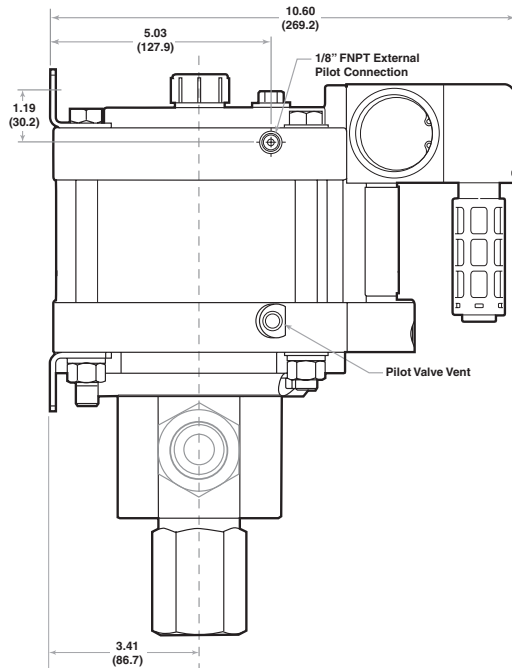


Flow Rate vs. Outlet Pressure:

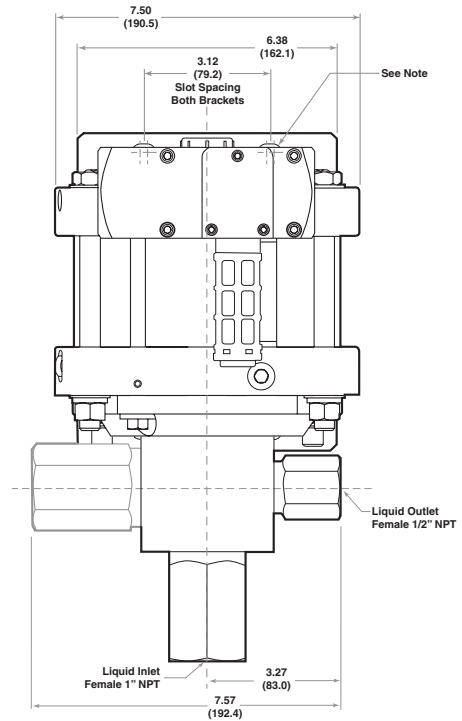


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

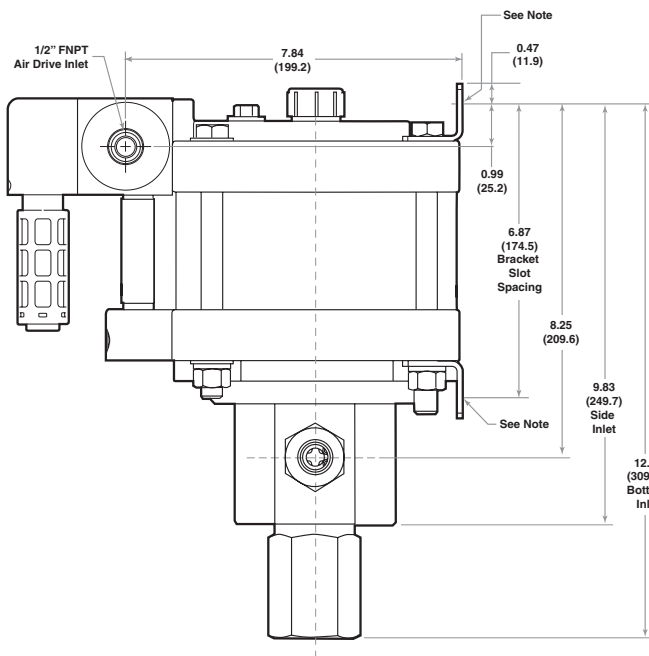
Dimensional Data:



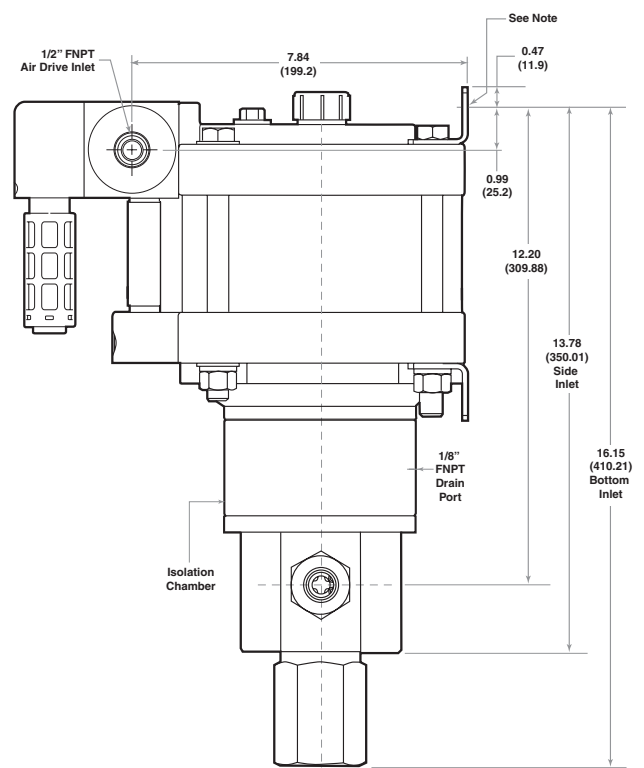
Left View



Front View



Right View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Flow, High Pressure Liquid Pump - Series ASL15-01

Air-Driven, High Pressure Liquid Pump

Series ASL15-02

Single-Acting, Dual 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: 4,600 psi (317 bar)
- Air to Liquid Pressure Ratio: 1:32
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 3.62 in³ (59.3 cm³)
- Inlet Connection: 1" FNPT
- Outlet Connection: 1/2" FNPT
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 4,600 psi (317 bar) output pressure is 144 psi (9.9 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 90 psi: 61 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight without Isolation Chamber: 48 lbs. (21.8 kg)
- Net Weight with Isolation Chamber: 60 lbs. (27.2 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: 316 Stainless Steel
- Liquid Seal: See Ordering Guide for Options
- Air Drive Seals: Buna N

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

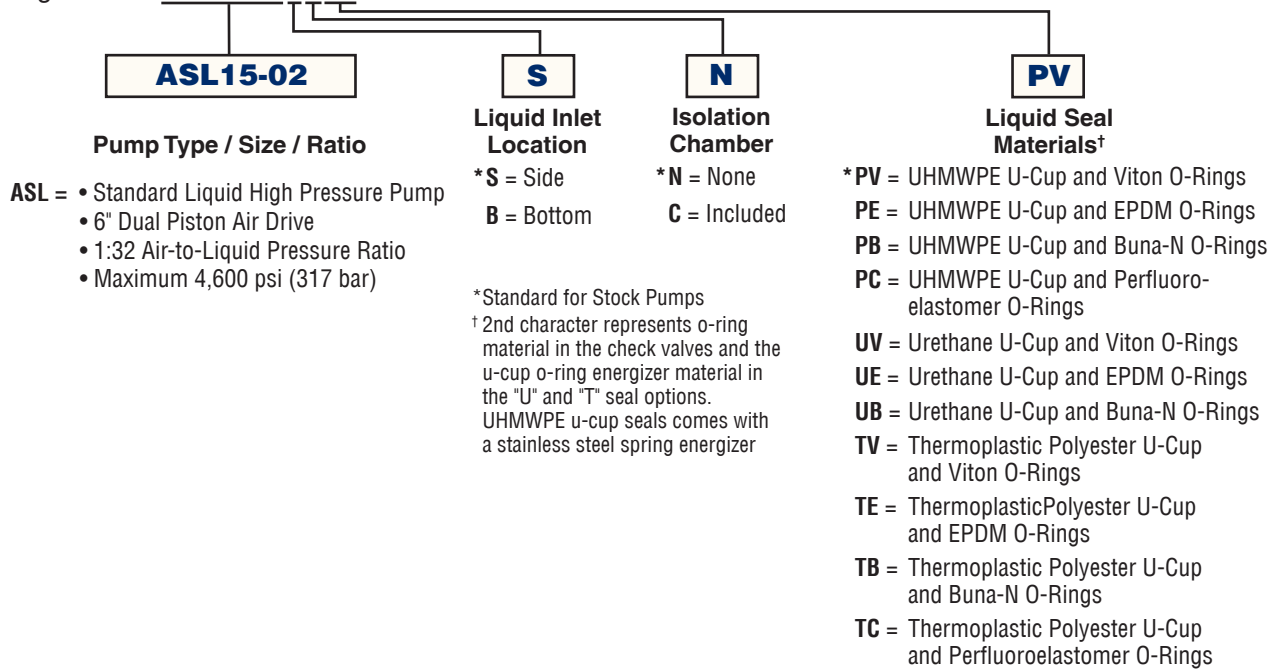


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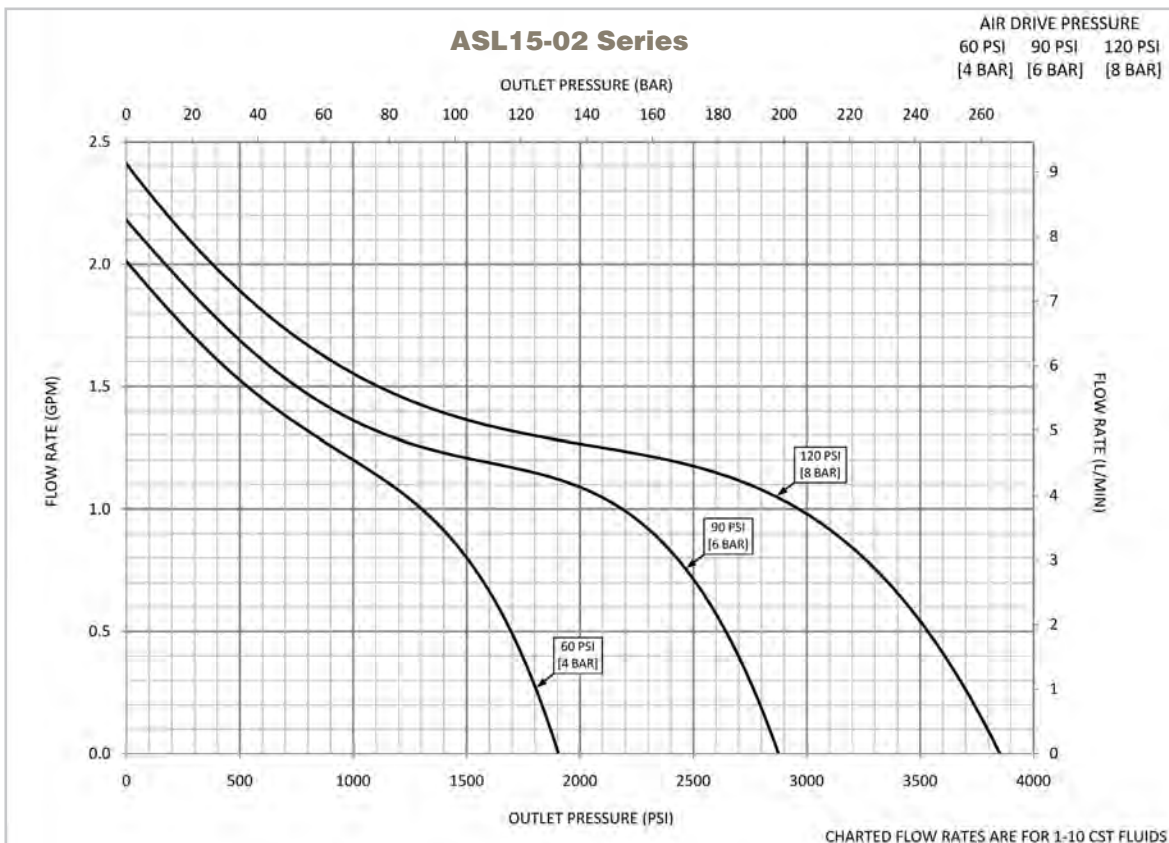
Ordering Guide:

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

Typical catalog number: **ASL15-02SNPV**

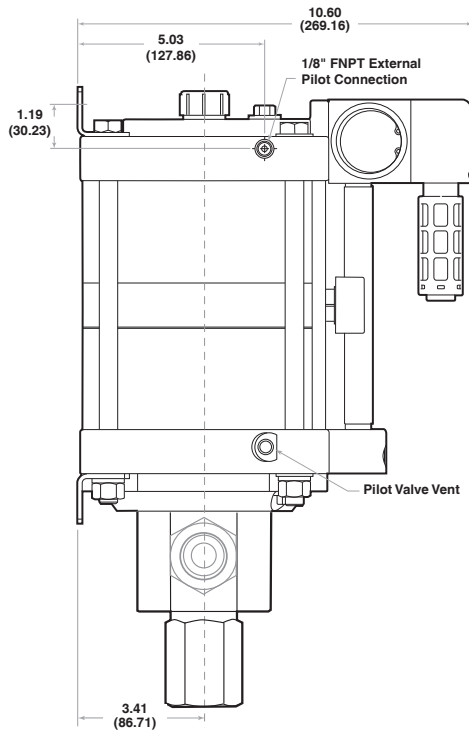


Flow Rate vs. Outlet Pressure:

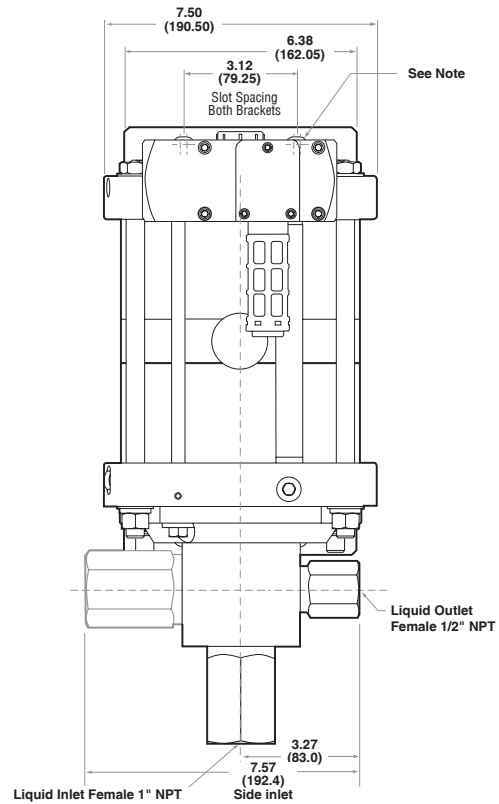


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

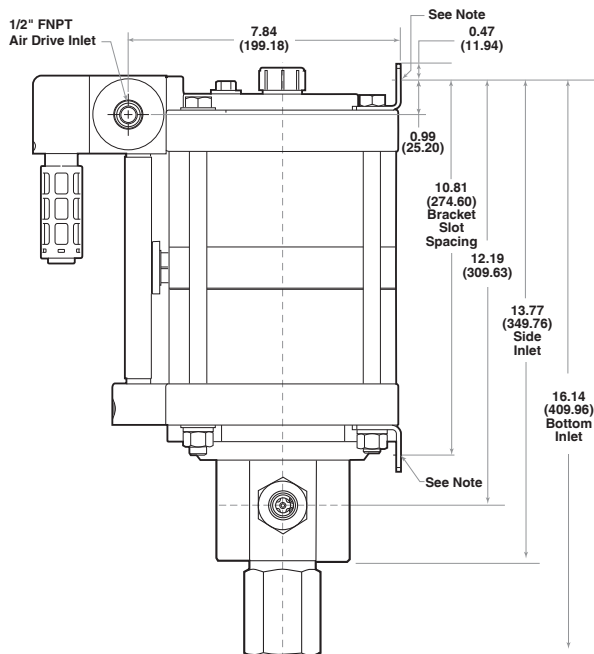
Dimensional Data:



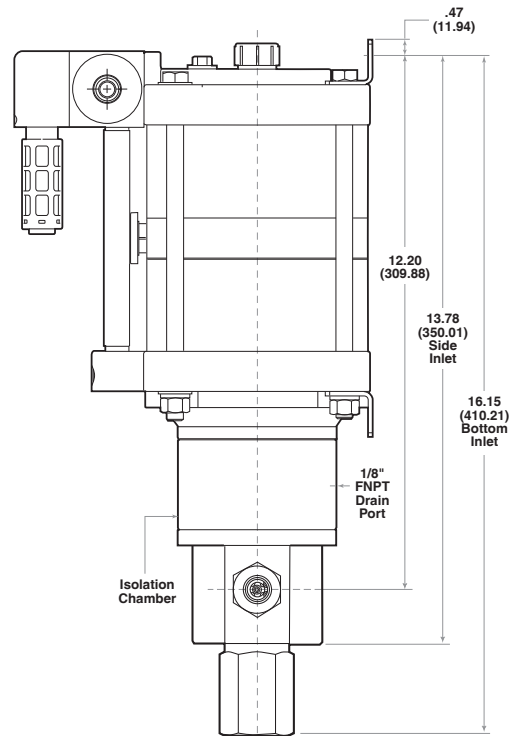
Left View



Front View



Right View



Right View with Optional Isolation Chamber

Note:

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 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



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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL15-02

Air-Driven, High Flow, High Pressure Liquid Pump

Series ASL25-01

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: 4,000 psi (276 bar)
- Air to Liquid Pressure Ratio: 1:28
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 2.10 in³ (34.4 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: 1/2" FNPT Female NPT
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 4,000 psi (276 bar) output pressure is 143 psi (9.9 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Max 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: 50 lbs. (22.7 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: 316 Stainless Steel
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



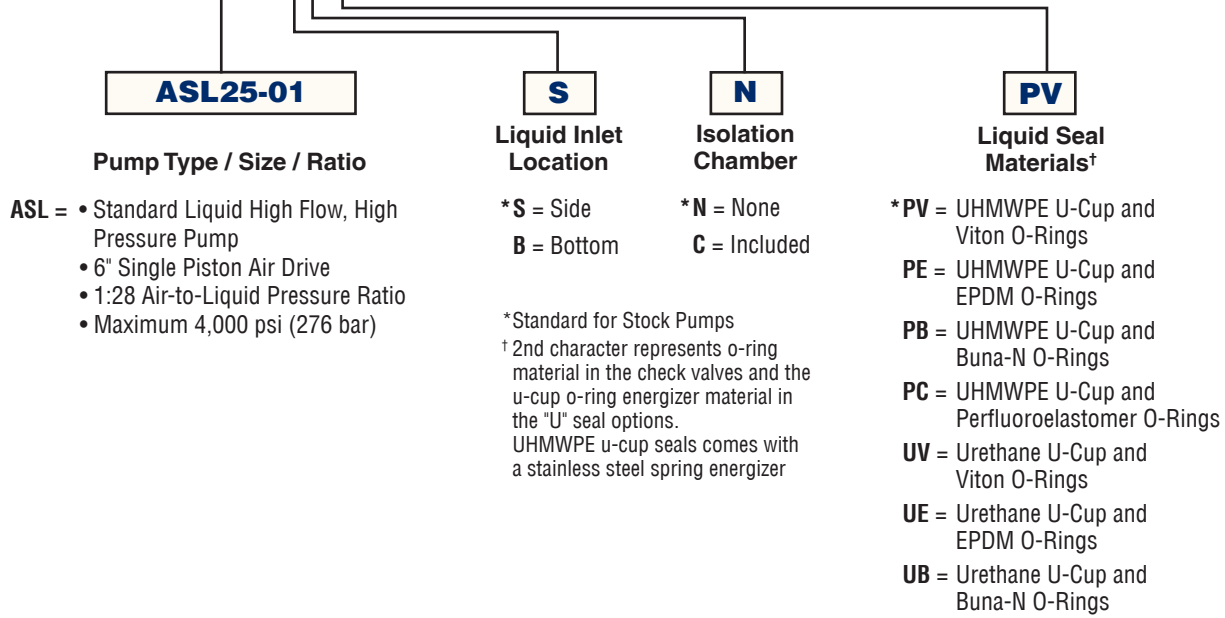
MADE IN THE U.S.A.

Single-Acting, Single Piston Air Drive Pump
Bottom Inlet Shown

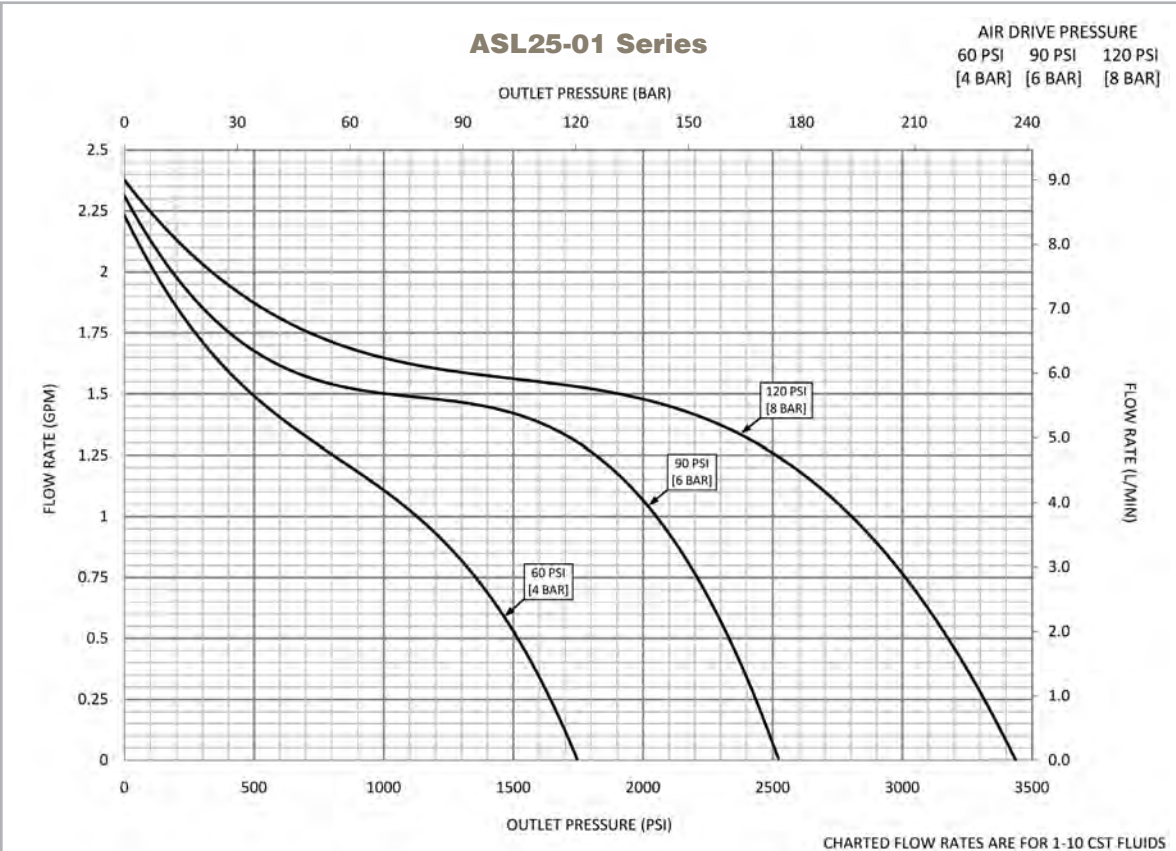
Ordering Guide:

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

Typical catalog number: **ASL25-01SNPV**

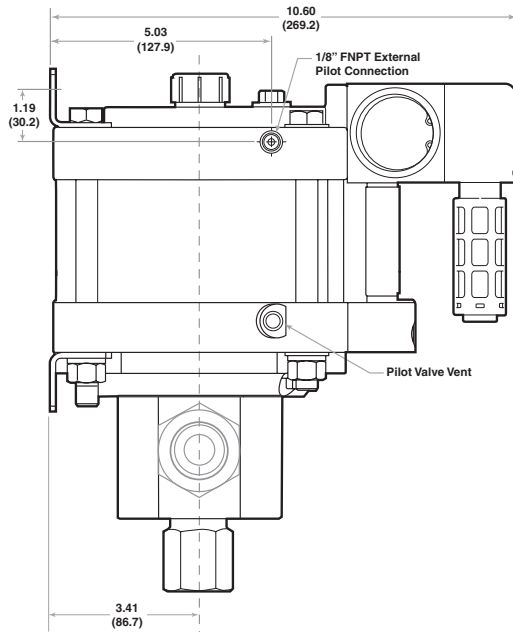


Flow Rate vs. Outlet Pressure:

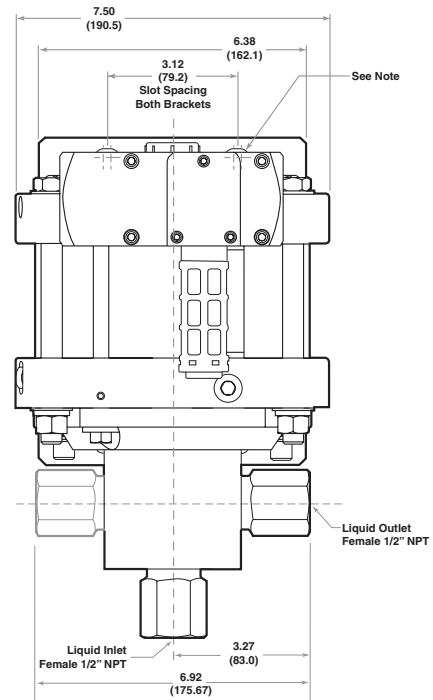


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

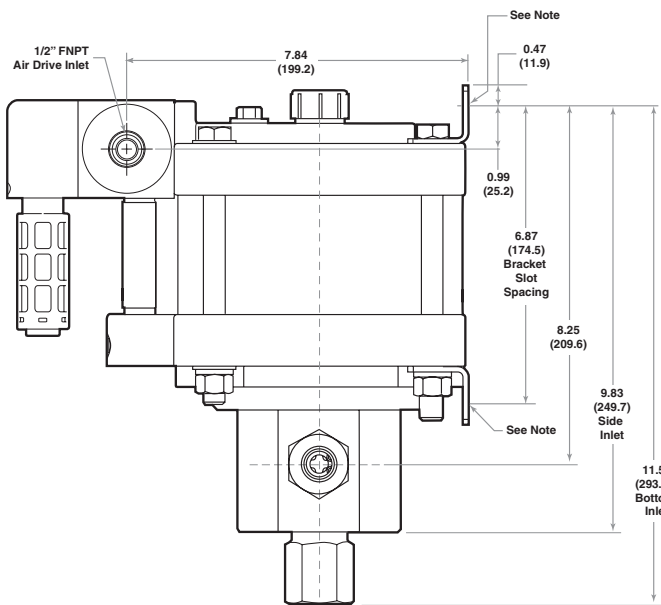
Dimensional Data:



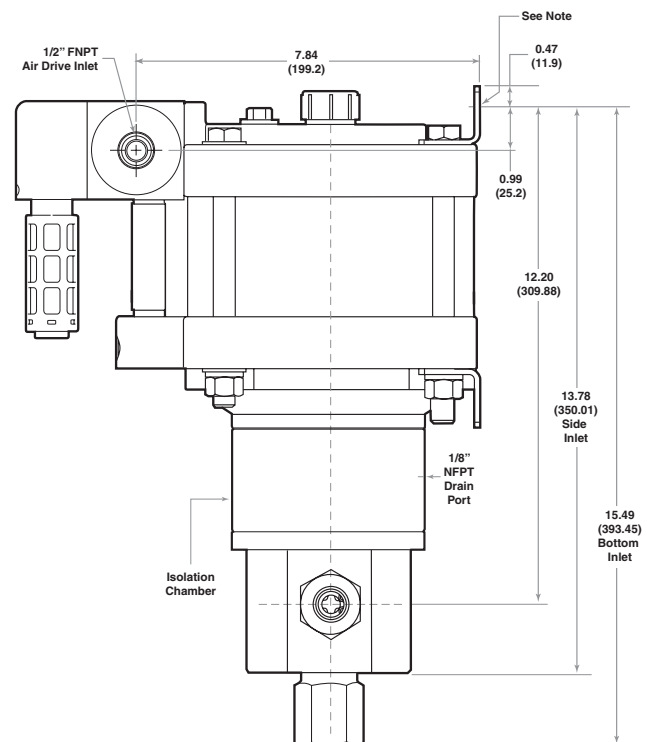
Left View



Front View



Right View



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 Parker Autoclave Engineers.

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02-9251BE

January 2013



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Caution! Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

ISO-9001 Certified

Air-Driven, High Flow, High Pressure Liquid Pump - Series ASL25-01

Air-Driven, High Pressure Liquid Pump

Series ASL25-02

Single-Acting, Dual 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: 8,100 psi (558 bar)
- Air to Liquid Pressure Ratio: 1:56
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 2.10 in³ (34.4 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: 1/2" FNPT
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 8,100 psi (558 bar) output pressure is 145 psi (10.0 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 90 psi: 61 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight without Isolation Chamber: 47 lbs. (21.3 kg)
- Net Weight with Isolation Chamber: 59 lbs. (26.8 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: 316 Stainless Steel
- Liquid Seal: See Ordering Guide for Options
- Air Drive Seals: Buna N

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

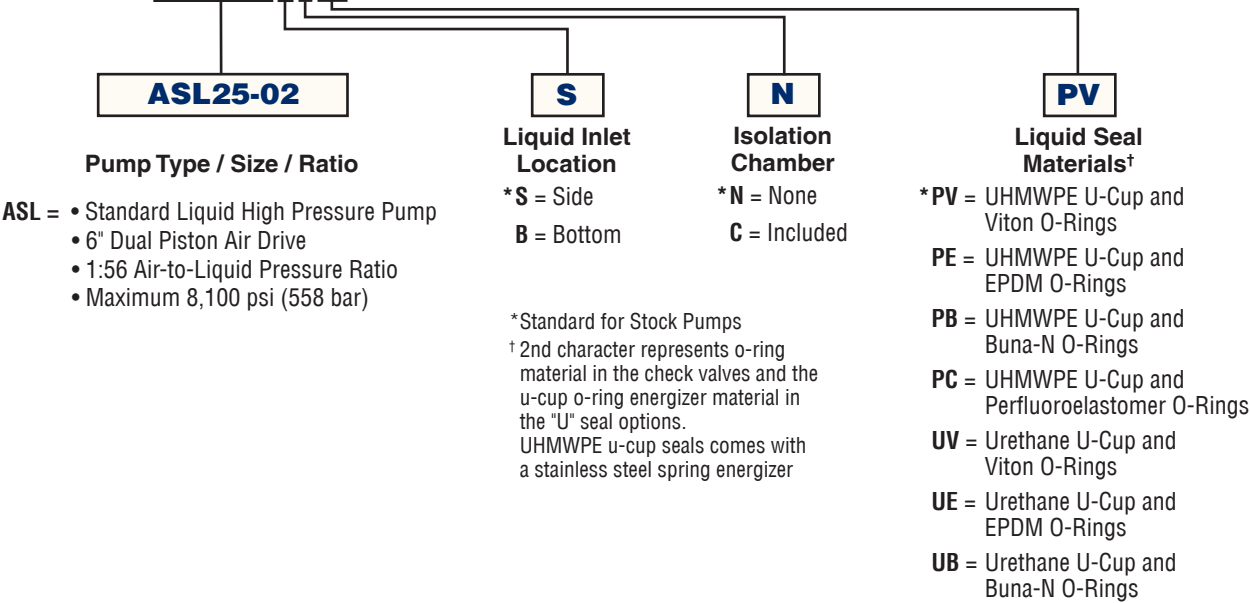


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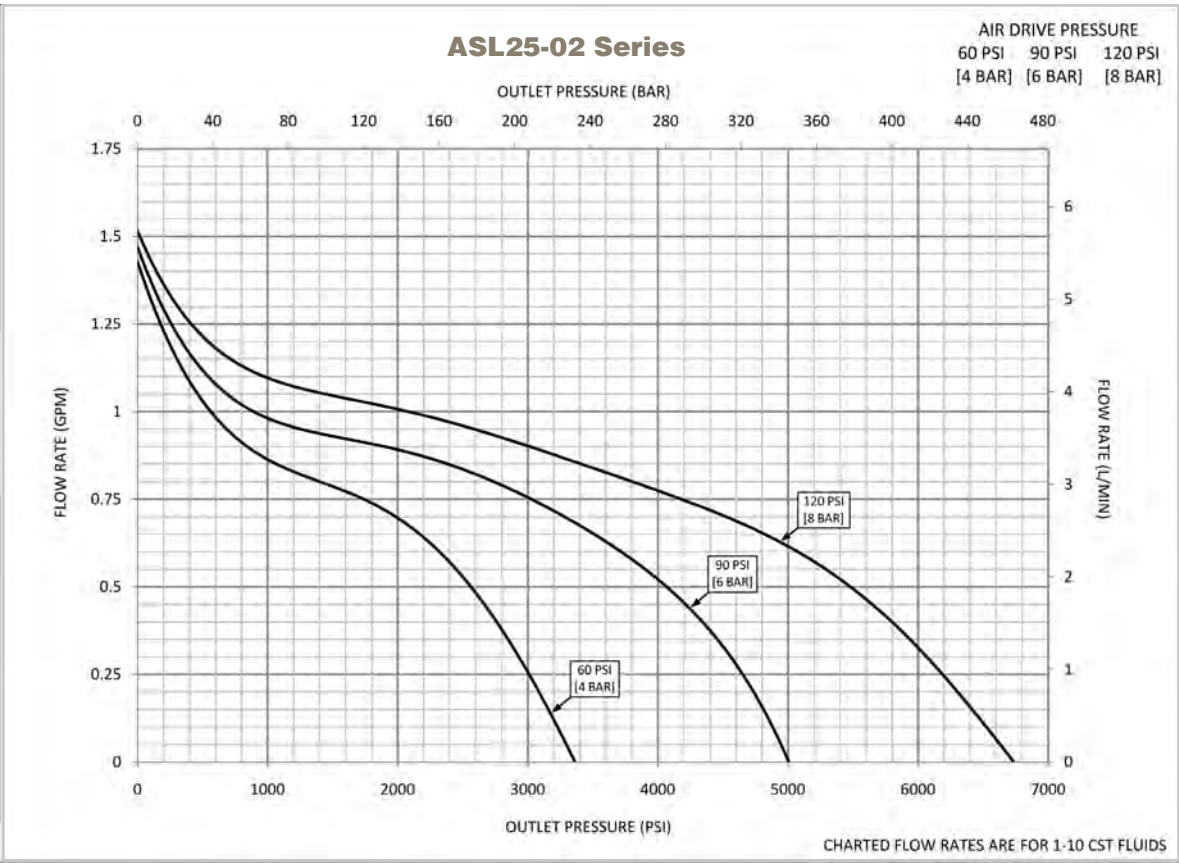
Ordering Guide:

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

Typical catalog number: **ASL25-02SNPV**

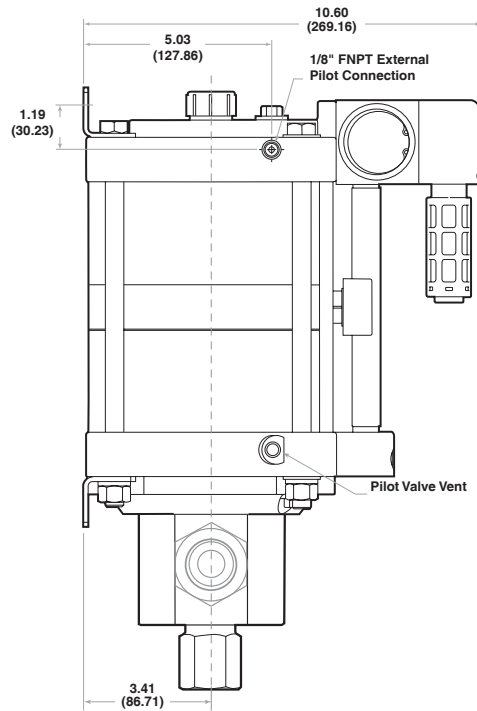


Flow Rate vs. Outlet Pressure:

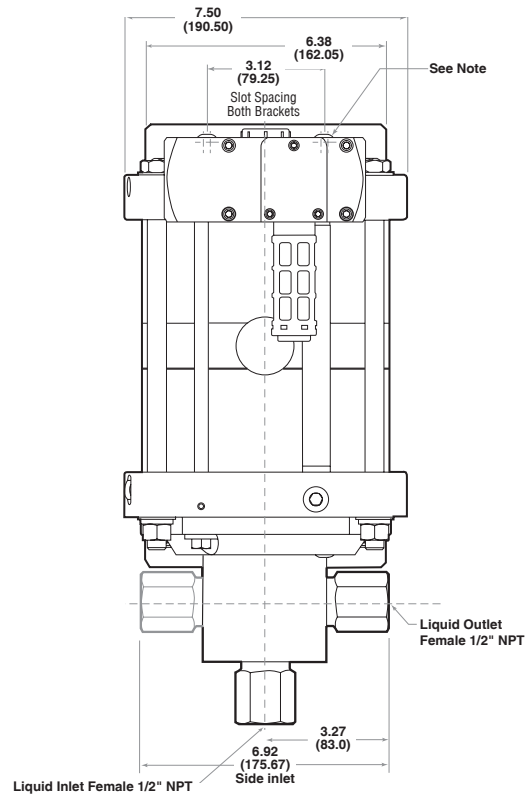


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

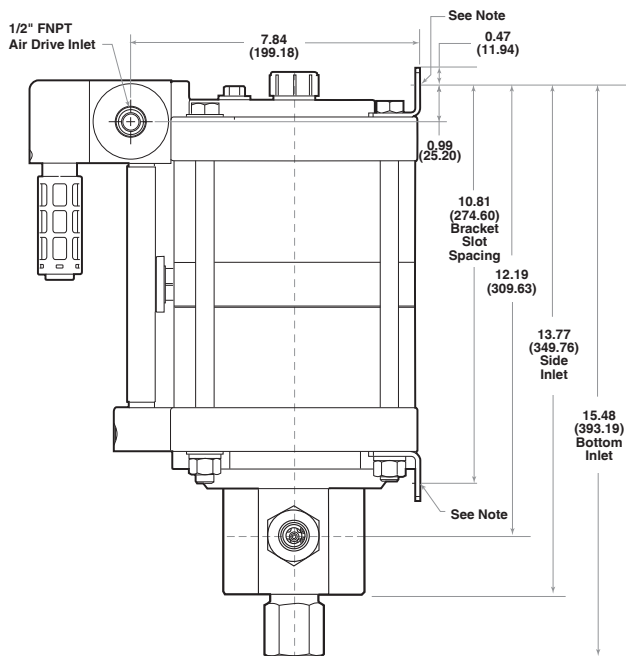
Dimensional Data:



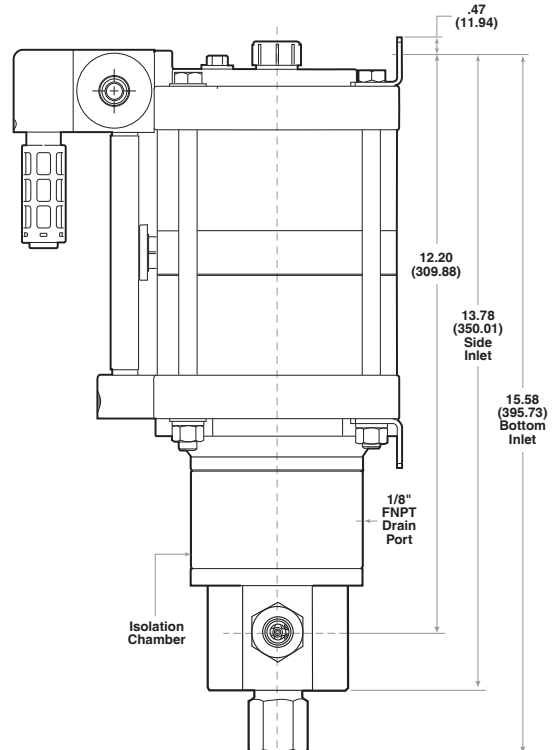
Left View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL25-02

Air-Driven, High Flow, High Pressure Liquid Pump

Series ASL35-01

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: 5,600 psi (386 bar)
- Air to Liquid Pressure Ratio: 1:39
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 1.50 in³ (24.6 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: 1/2" FNPT
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 5,600 psi (386 bar) output pressure is 144 psi (9.9 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Max Air Consumption @ 90 psi: 63 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: 50 lbs. (22.7 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: 316 Stainless Steel
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



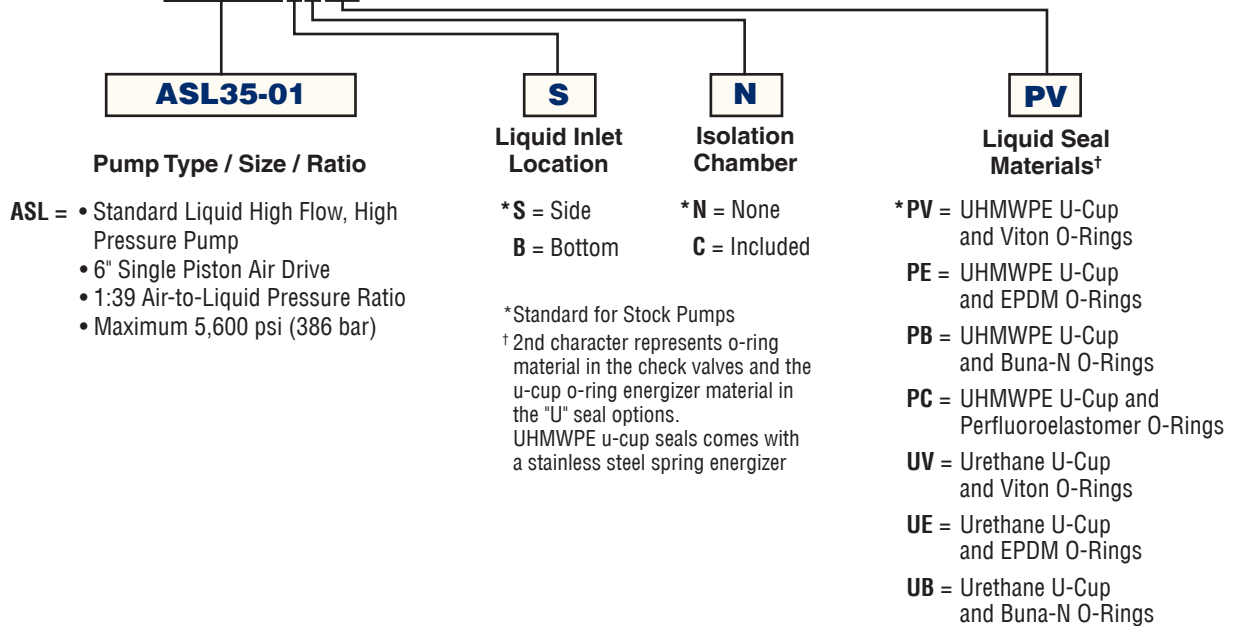
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Single-Acting, Single Piston Air Drive Pump
Bottom Inlet Shown

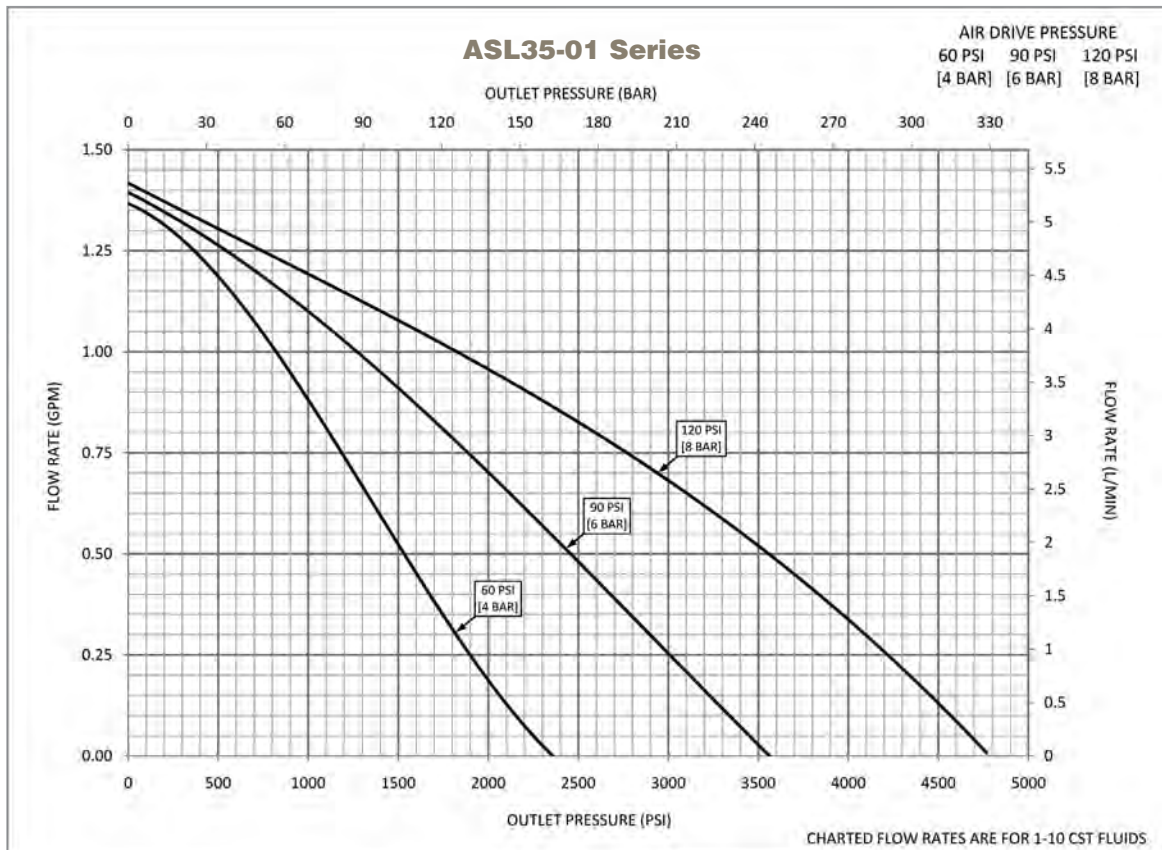
Ordering Guide:

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

Typical catalog number: **ASL35-01SNPV**

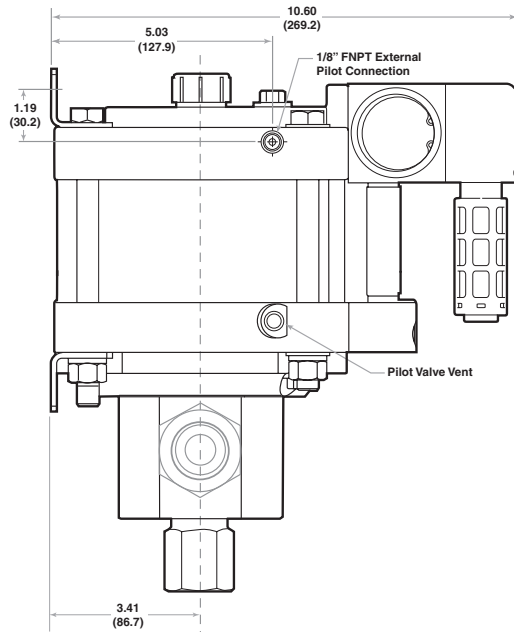


Flow Rate vs. Outlet Pressure:

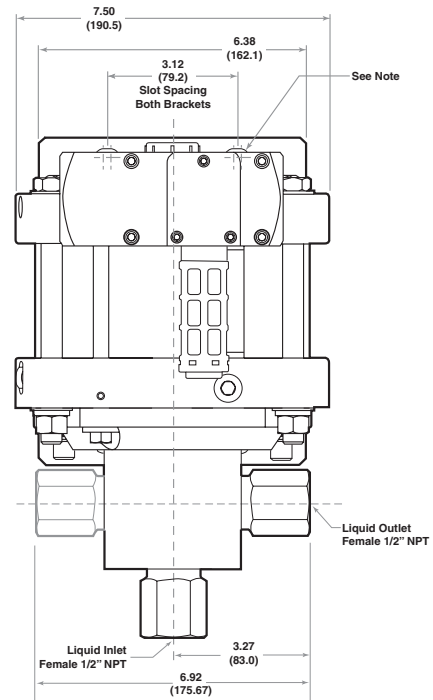


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

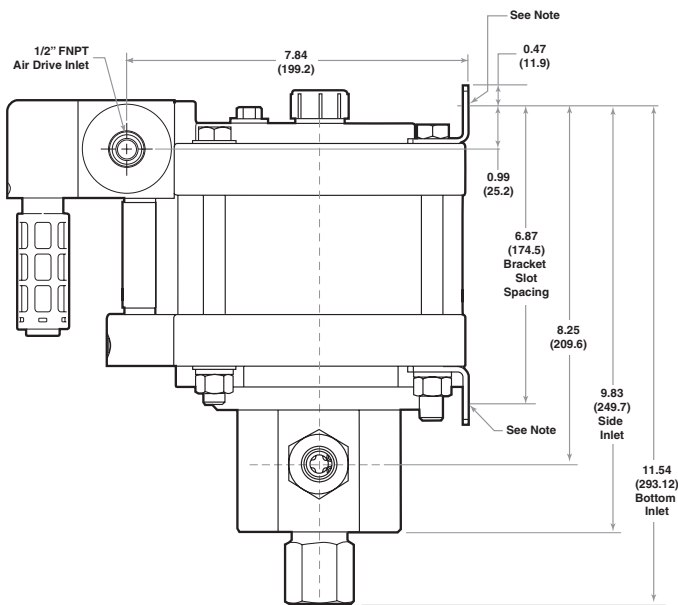
Dimensional Data:



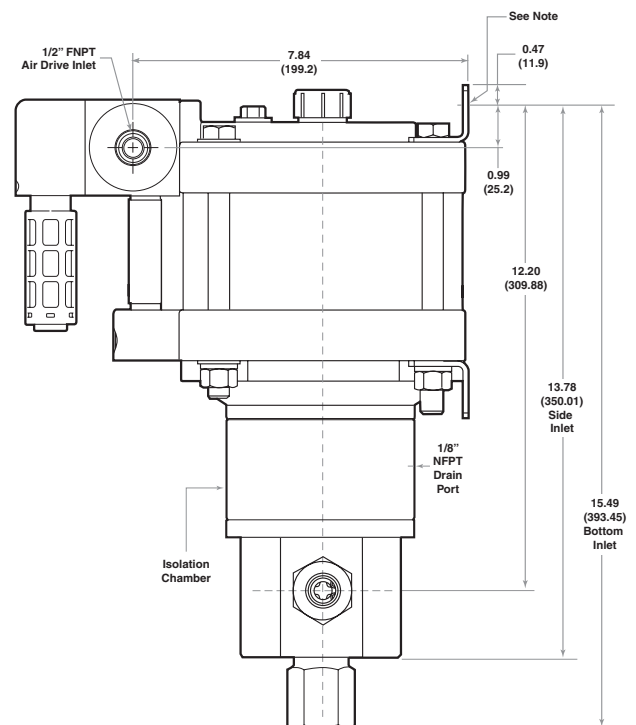
Left View



Front View



Right View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Flow, High Pressure Liquid Pump - Series ASL35-01

Air-Driven, High Pressure Liquid Pump

Series ASL35-02

Single-Acting, Dual 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: 11,200 psi (772 bar)
- Air to Liquid Pressure Ratio: 1:78
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 1.50 in³ (24.6 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: 1/2" FNPT
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) **See note*
- Nominal air pressure required for 11,200 psi (772 bar) output pressure is 143 psi (9.9 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 90 psi: 56 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight without Isolation Chamber: 46 lbs. (20.9 kg)
- Net Weight with Isolation Chamber: 58 lbs. (26.3 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: 316 Stainless Steel
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

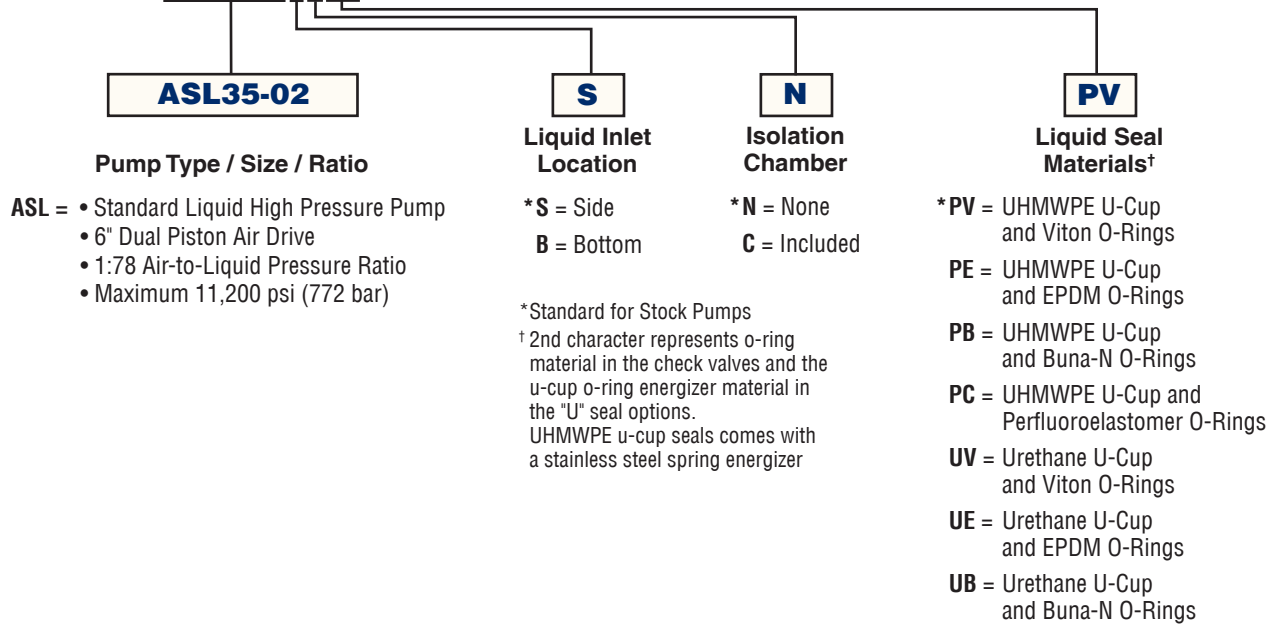


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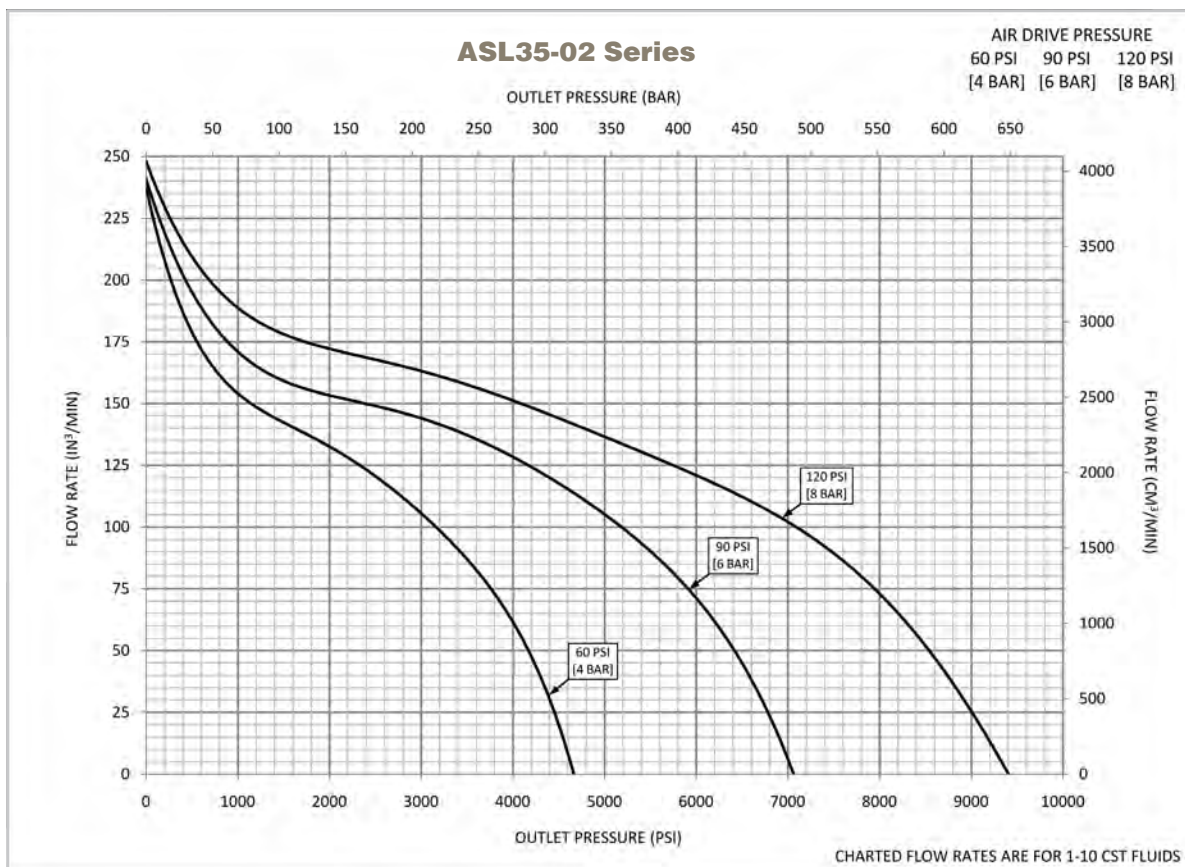
Ordering Guide:

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

Typical catalog number: **ASL35-02SNPV**

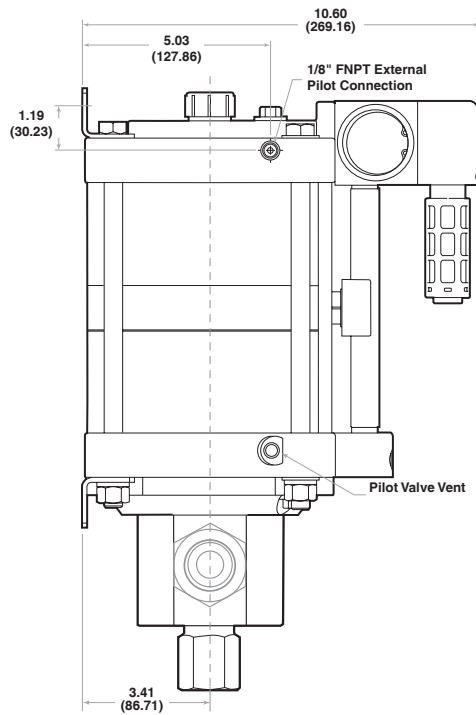


Flow Rate vs. Outlet Pressure:

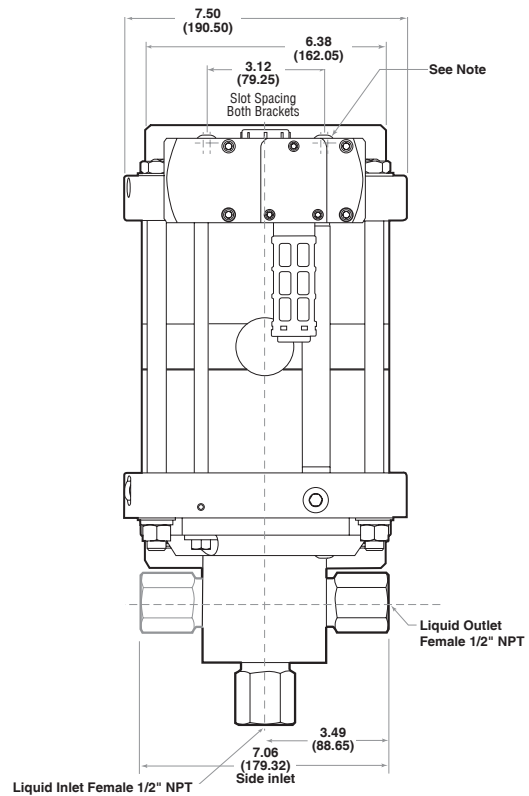


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

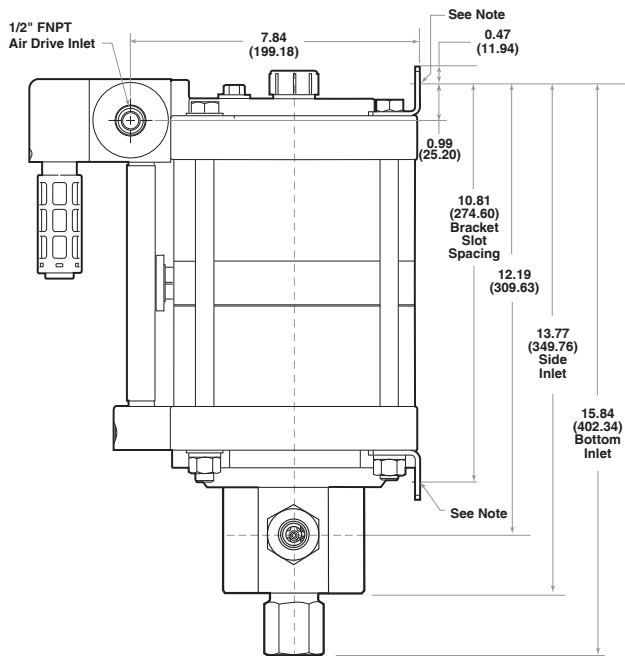
Dimensional Data:



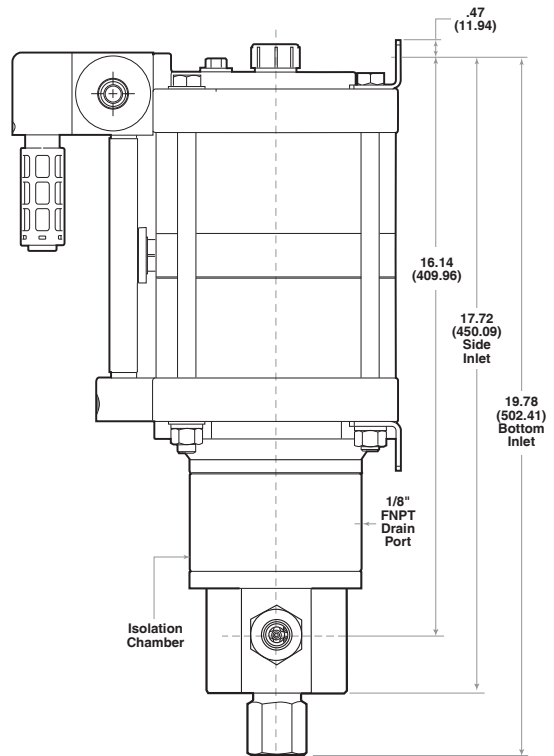
Left View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL35-02

Air-Driven, High Pressure Liquid Pump

Series ASL60-01

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: *10,000 psi (690 bar)*
- Air to Liquid Pressure Ratio: *1:70*
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: *0.84 in³ (13.7 cm³)*
- Inlet Connection: *1/2" FNPT*
- Outlet Connection: *1/2" FNPT*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: *15-150 psi (1-10 bar) *See note*
- Nominal air pressure required for 10,000 psi (690 bar) output pressure is 143 psi (9.9 bar)
- Inlet Port: *1/2" FNPT*
- Pilot Port: *1/8" FNPT (unregulated air)*
- Exhaust Port (muffler removed): *1/2" FNPT*
- Max Air Consumption @ 90 psi: *64 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: *316 Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



**Autoclave
Engineers** 

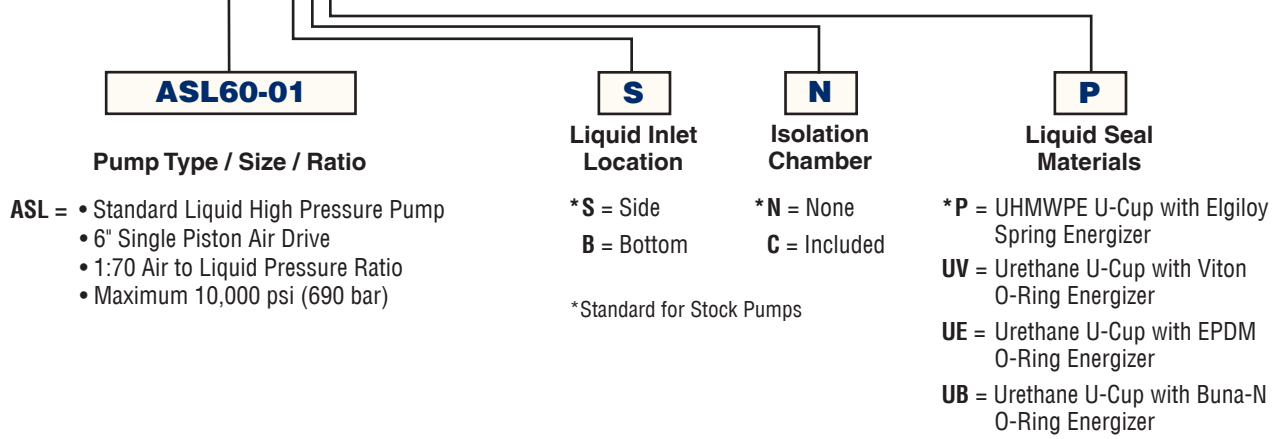
MADE IN THE U.S.A.

Single-Acting, Single Piston Air Drive
Bottom Inlet Shown

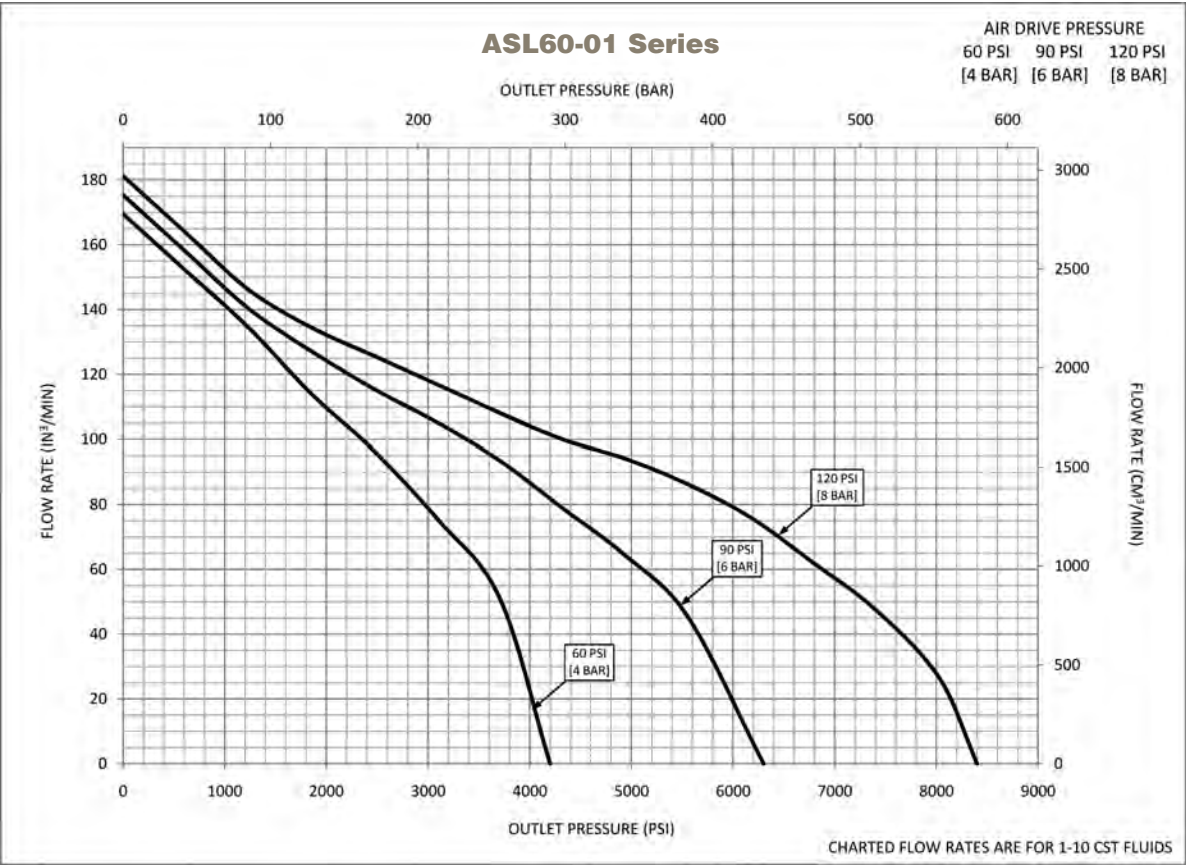
Ordering Guide:

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

Typical catalog number: **ASL60-01SNP**

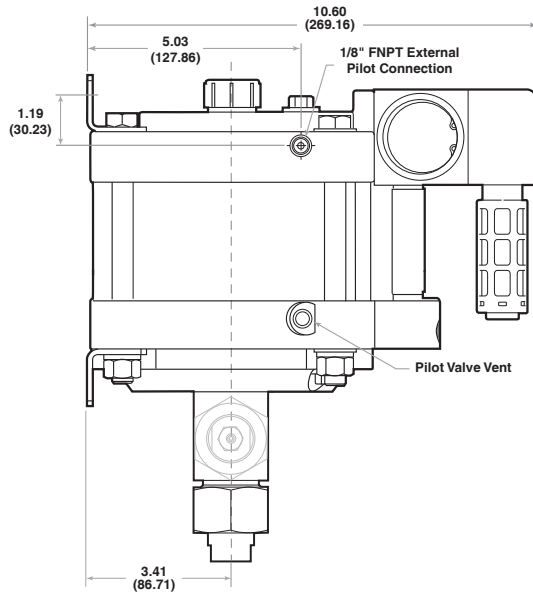


Flow Rate vs. Outlet Pressure:

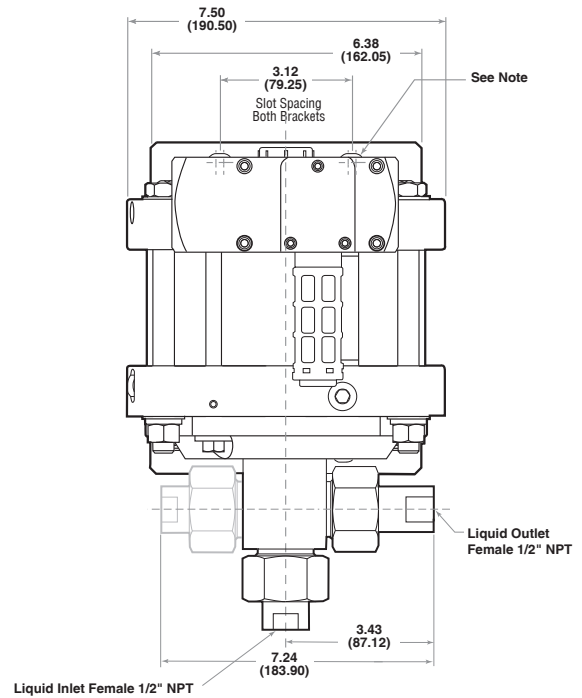


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

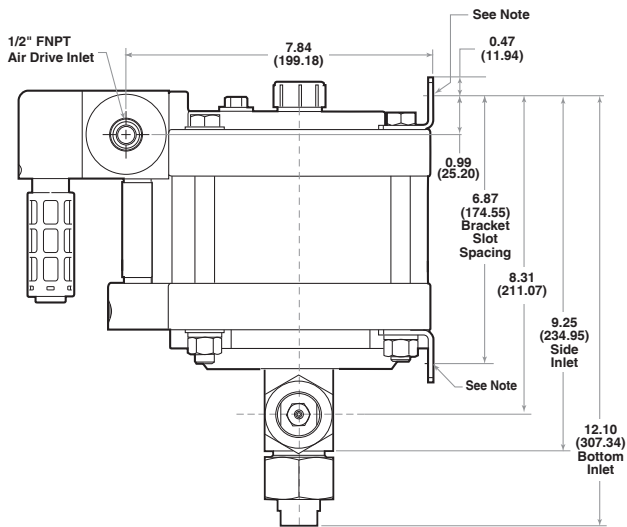
Dimensional Data:



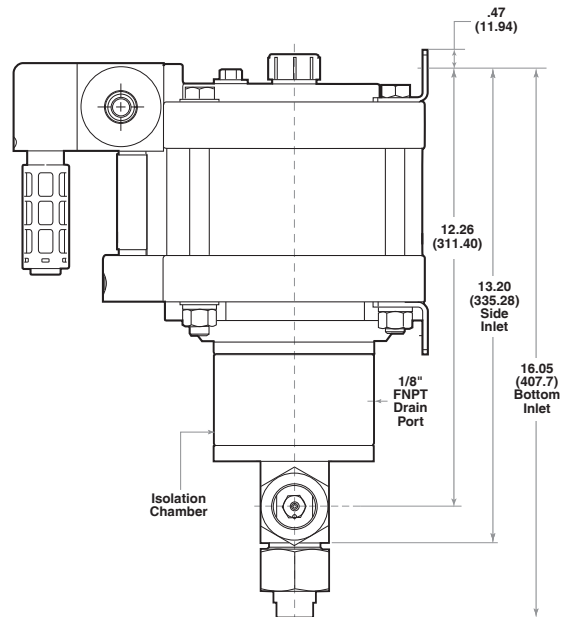
Left View



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



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Instrumentation Products Division, Europe
Industrial Estate Whitmill
Wexford, Republic of Ireland
PH: 353 53 914 1566
FAX: 353 53 914 1582

Caution! Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL60-01

Air-Driven, High Pressure Liquid Pump

Series ASL60-02

Single-Acting, Dual 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: 20,000 psi (1,379 bar)
- Air to Liquid Pressure Ratio: 1:140
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 0.84 in³ (13.8 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: *Parker Autoclave SF562CX20-9/16" Female Medium Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 20,000 psi (1,379 bar) output pressure is 143 psi (9.9 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 90 psi: 59 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight without Isolation Chamber: 43 lbs. (19.5 kg)
- Net Weight with Isolation Chamber: 53 lbs. (24.0 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: 316 Stainless Steel
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

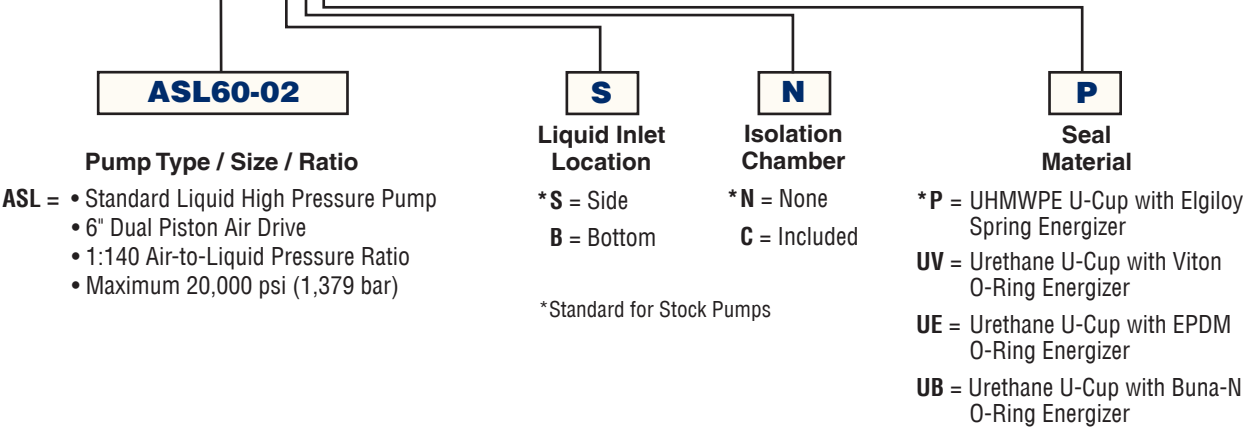


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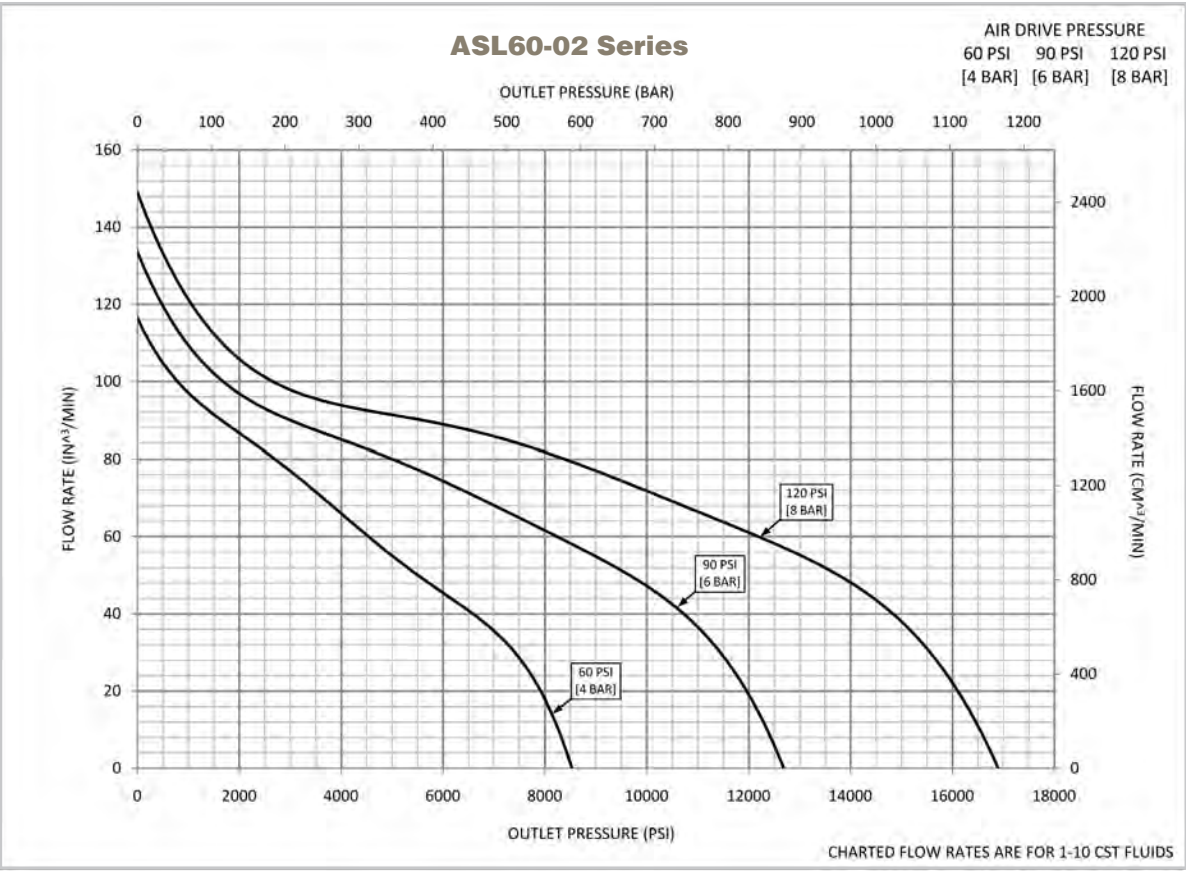
Ordering Guide:

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

Typical catalog number: **ASL60-02SNP**

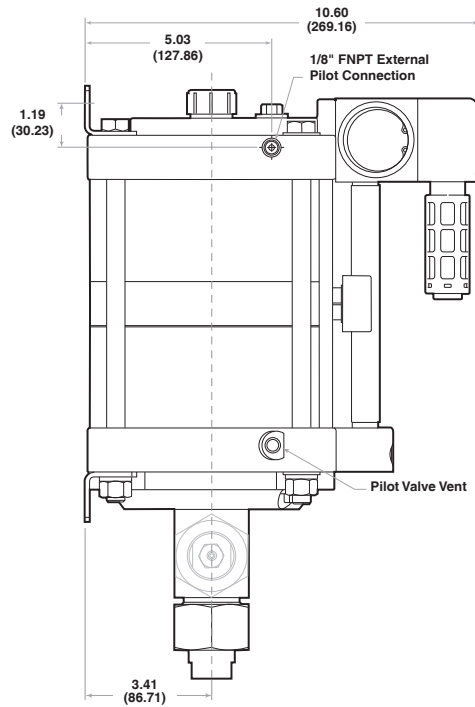


Flow Rate vs. Outlet Pressure:

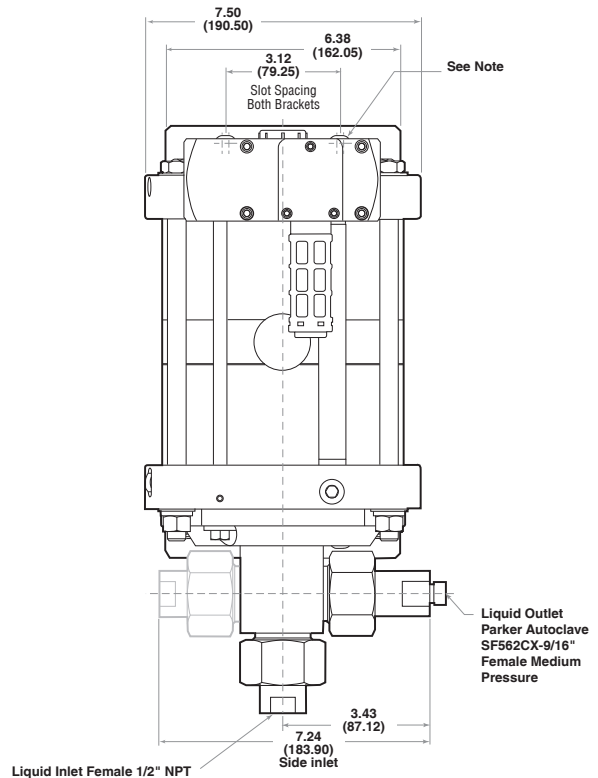


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

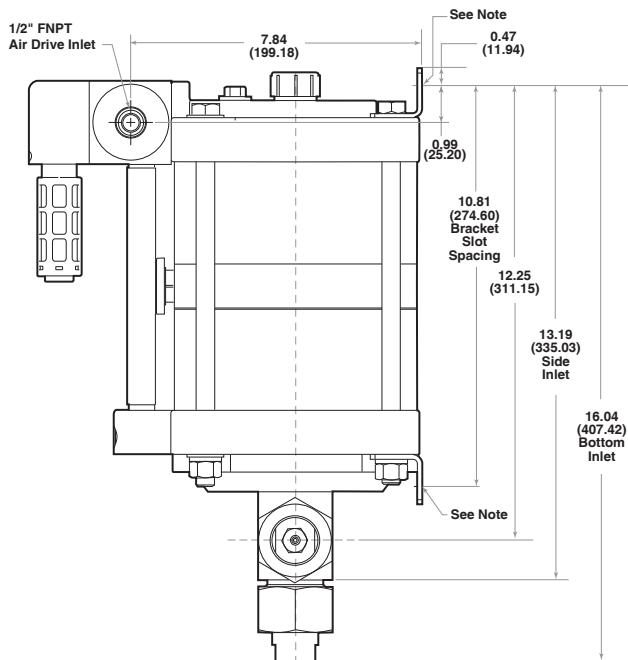
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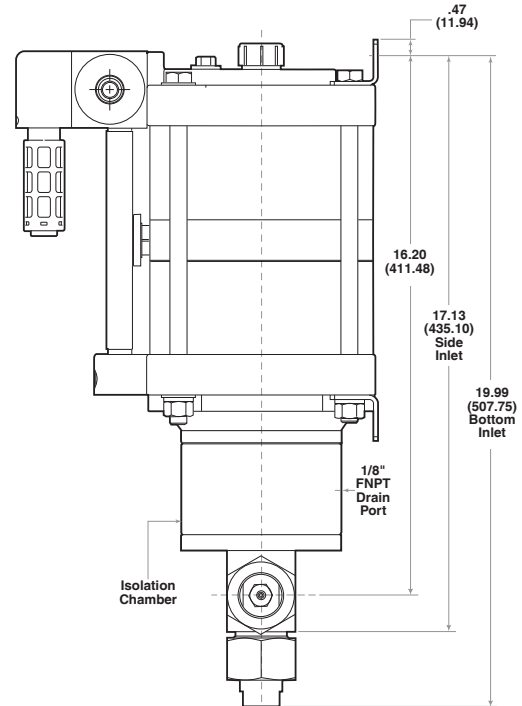
Left View



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 Parker Autoclave Engineers.

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January 2013



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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL60-02

Air-Driven, High Pressure Liquid Pump

Series ASL100-01

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: *15,000 psi (1034 bar)*
- Air to Liquid Pressure Ratio: *1:113*
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: *0.52 in³ (8.5 cm³)*
- Inlet Connection: *1/2" FNPT*
- Outlet Connection: *1/2" FNPT*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: *15-150 psi (1-10 bar)* *See note
- Nominal air pressure required for 15,000 psi (1034 bar) output pressure is 133 psi (9.2 bar)
- Inlet Port: *1/2" FNPT*
- Pilot Port: *1/8" FNPT (unregulated air)*
- Exhaust Port (muffler removed): *1/2" FNPT*
- Max Air Consumption @ 90 psi: *64 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: *316 Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



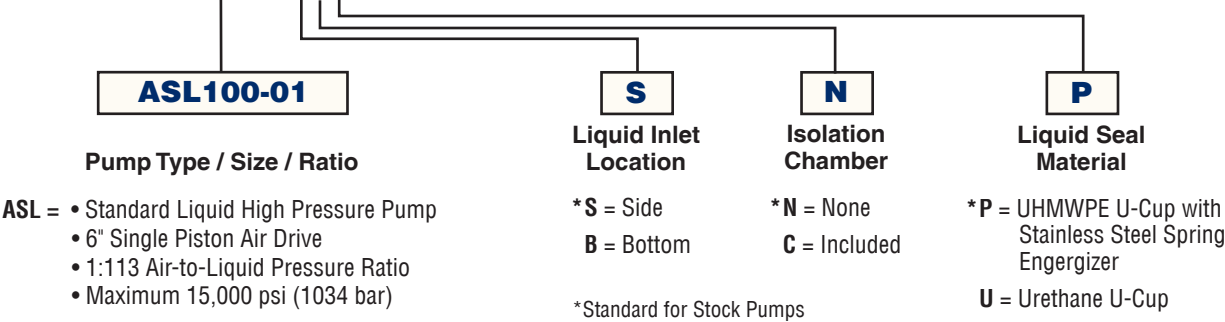
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Single-Acting, Single Piston Air Drive
Bottom Inlet Shown

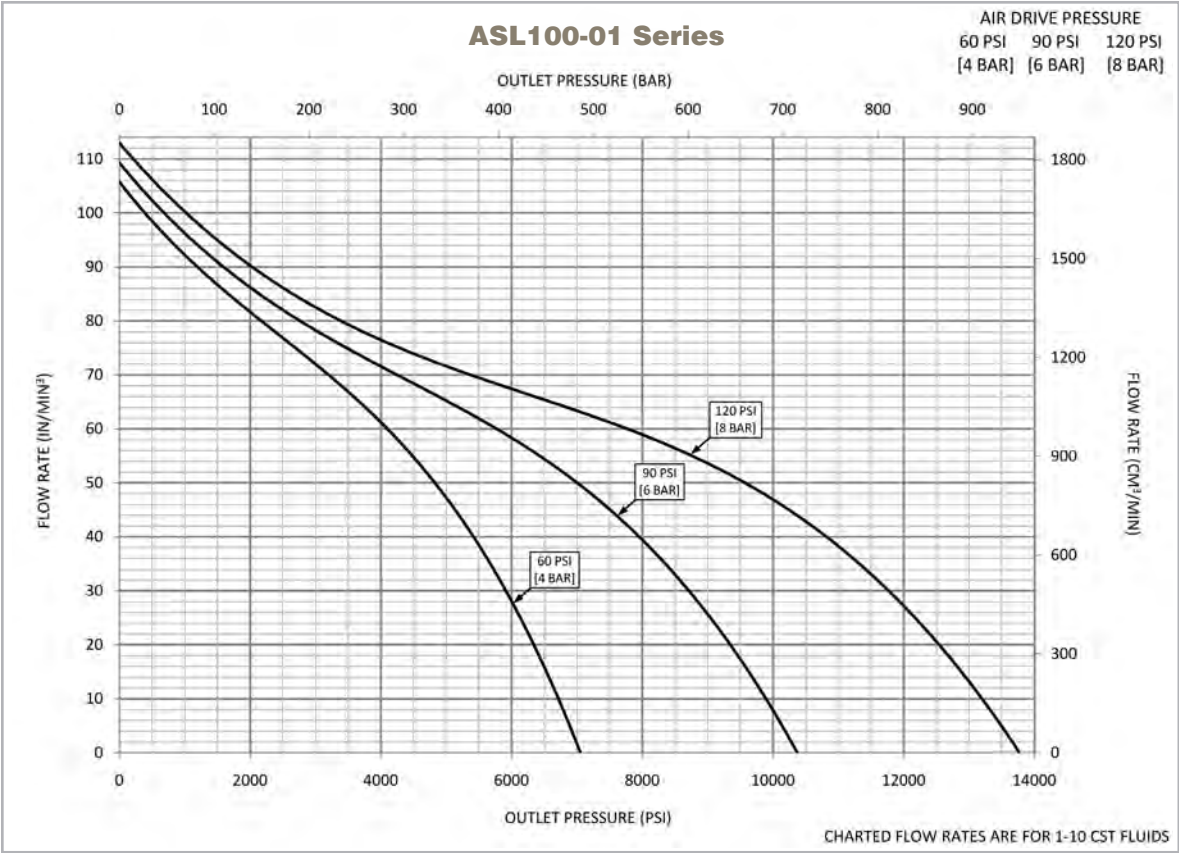
Ordering Guide:

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

Typical catalog number: **ASL100-01SNP**

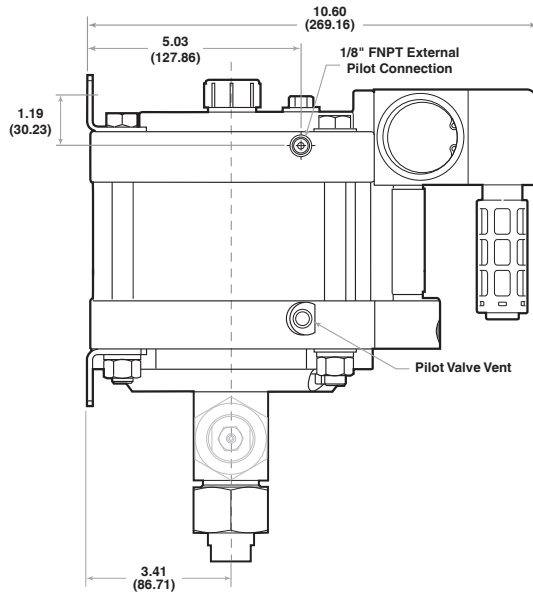


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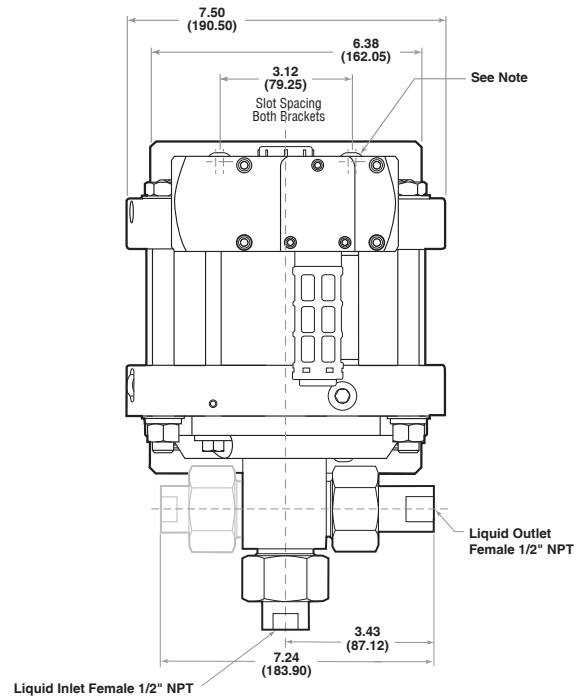


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

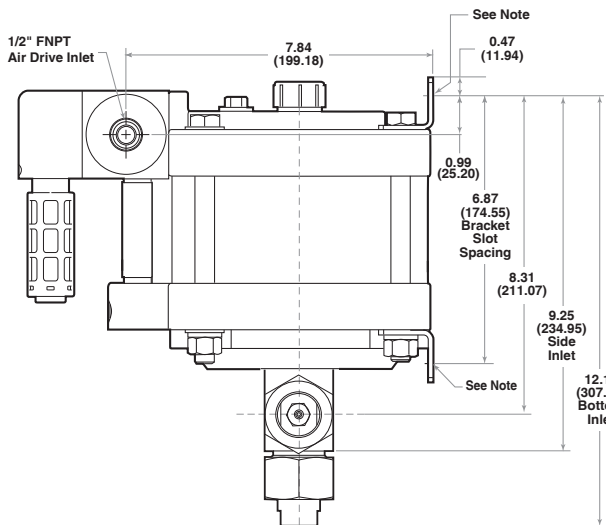
Dimensional Data:



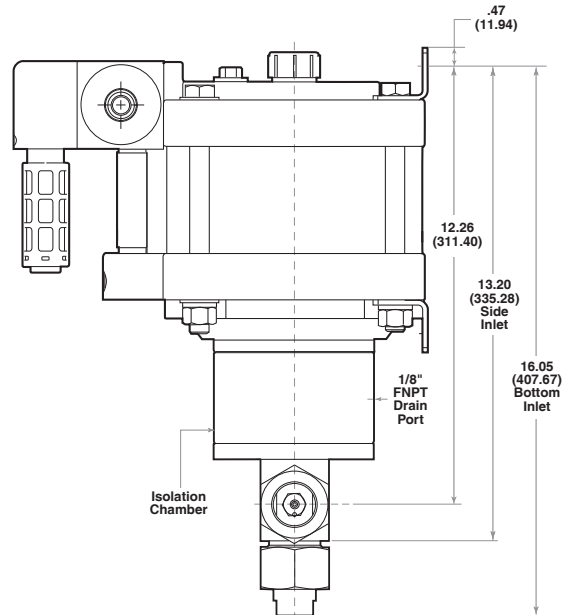
Left View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL100-01

Air-Driven, High Pressure Liquid Pump

Series ASL100-02

Single-Acting, Dual 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: 31,000 psi (2,137 bar)
- Air to Liquid Pressure Ratio: 1:226
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 0.52 in³ (8.5 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: *Parker Autoclave F250C-1/4" Female High Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 31,000 psi (2,137 bar) output pressure is 137 psi (9.5 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 90 psi: 59 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight without Isolation Chamber: 42 lbs. (19.1 kg)
- Net Weight with Isolation Chamber: 51 lbs. (23.1 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: 316 Stainless Steel
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

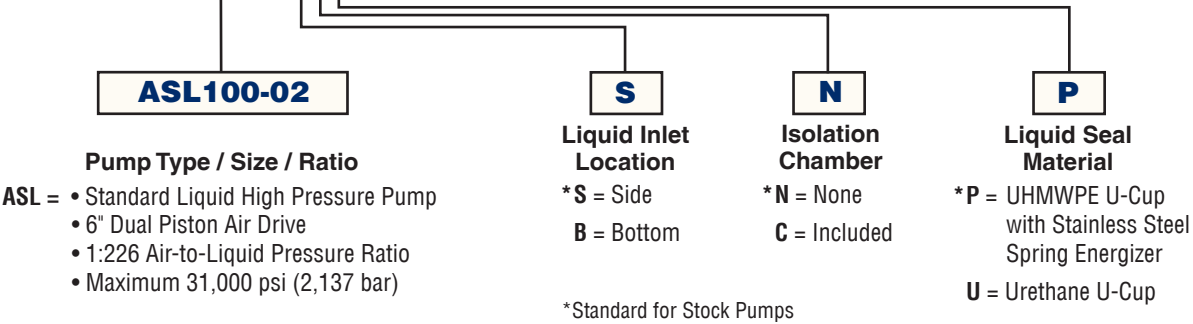


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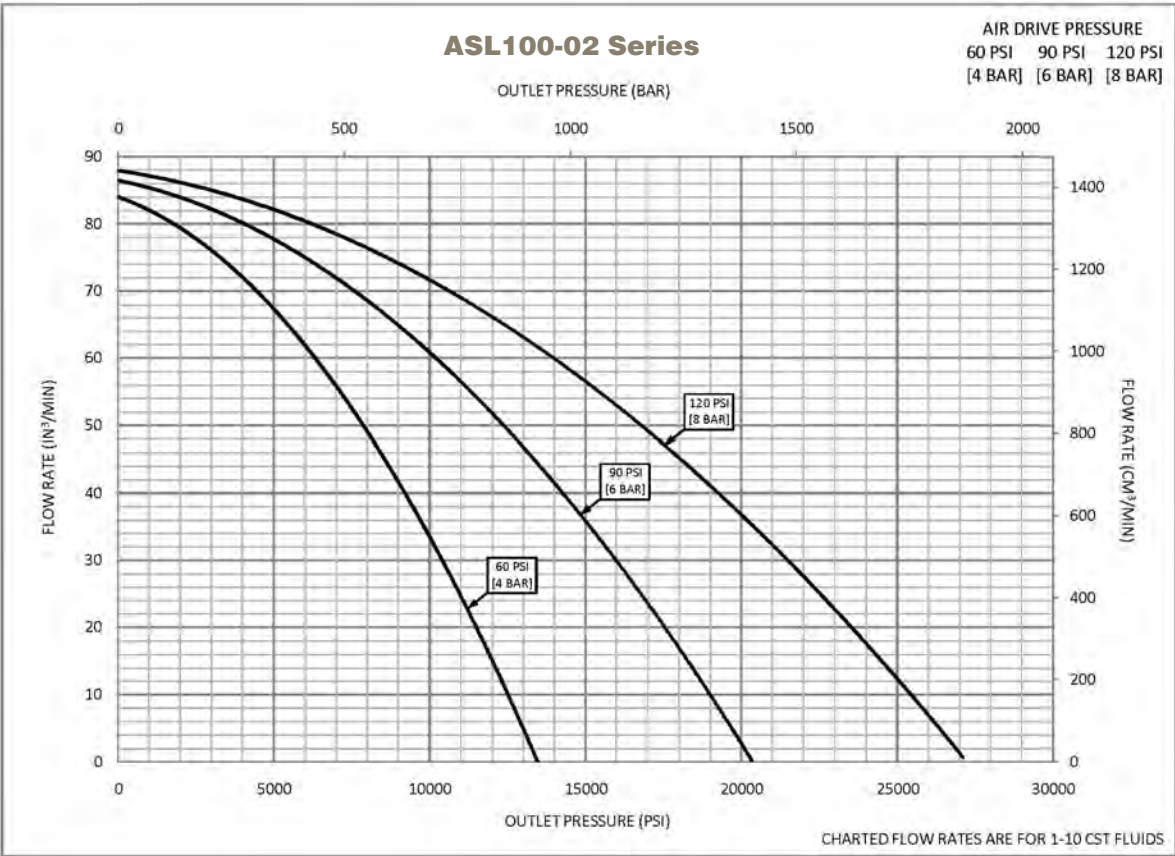
Ordering Guide:

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

Typical catalog number: **ASL100-02SNP**

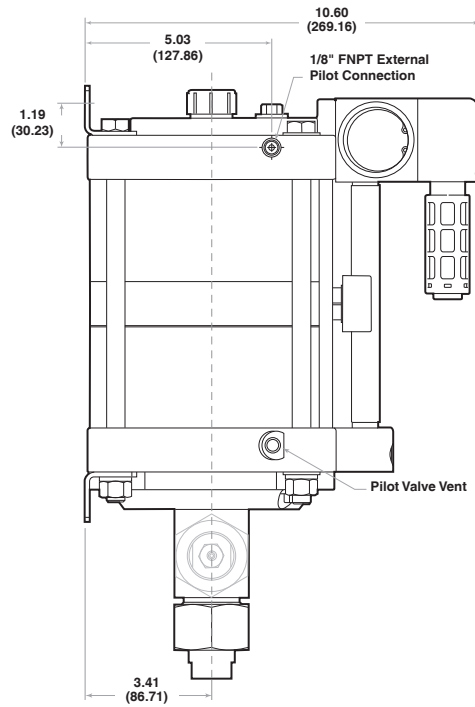


Flow Rate vs. Outlet Pressure:

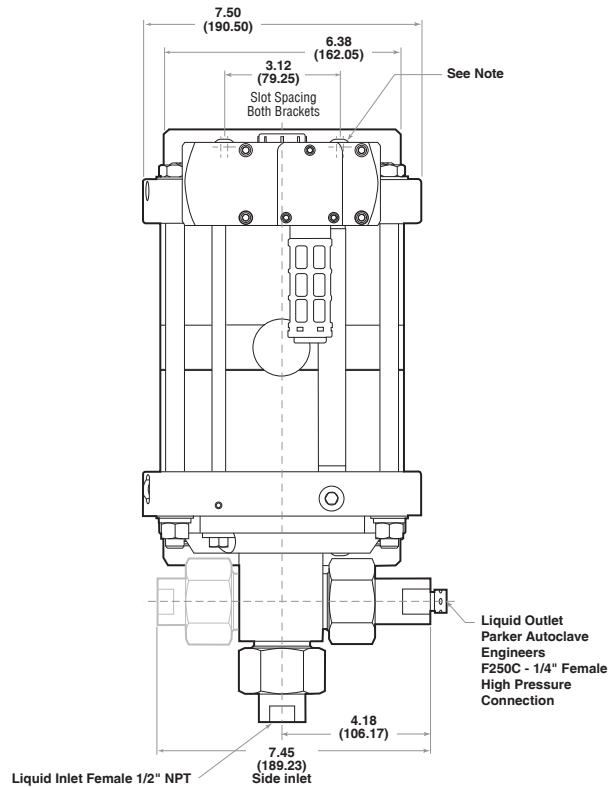


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

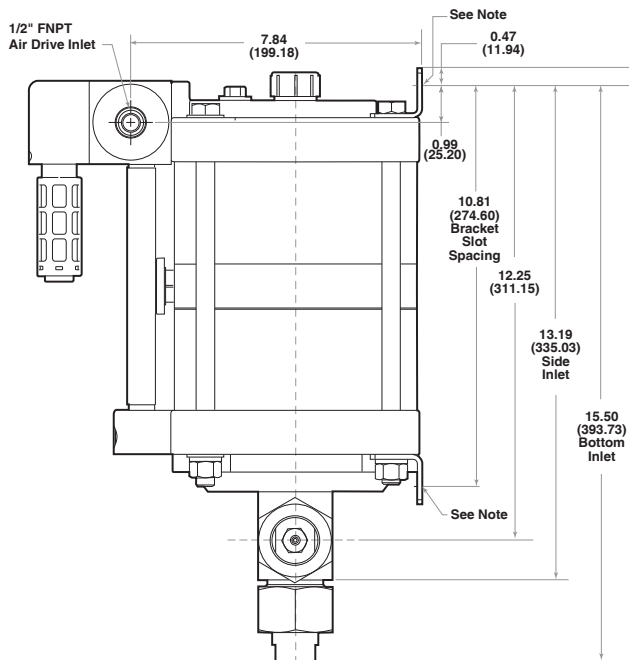
Dimensional Data:



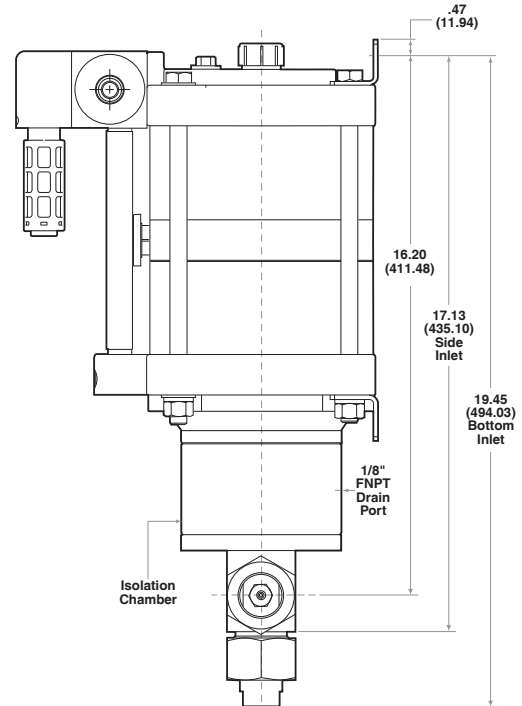
Left View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL100-02

Air-Driven, High Pressure Liquid Pump

Series ASL150-01

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: *21,500 psi (1,482 bar)*
- Air to Liquid Pressure Ratio: *1:150*
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: *0.39 in³ (6.4 cm³)*
- Inlet Connection: *1/2" FNPT*
- Outlet Connection: *Parker Autoclave F250C-1/4" Female High Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: *15-150 psi (1-10 bar)* *See note
- Nominal air pressure required for 21,500 psi (1,482 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: *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: *316 Stainless Steel*
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



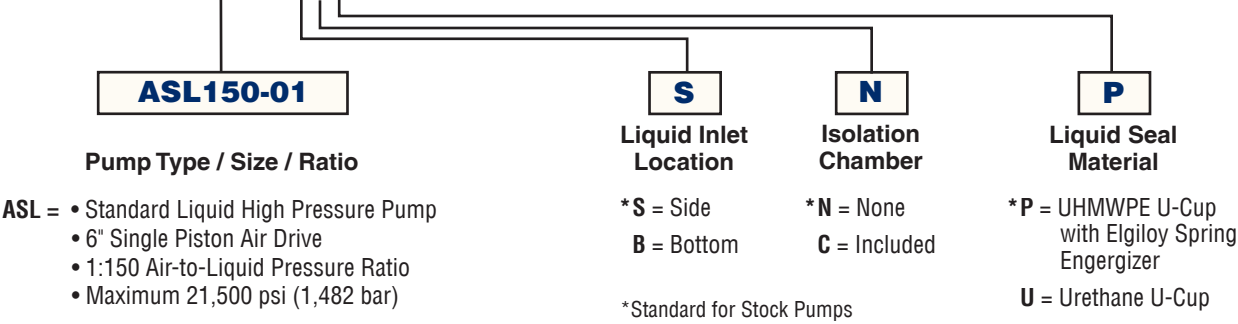
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Single-Acting, Single Piston Air Drive
Bottom Inlet Shown

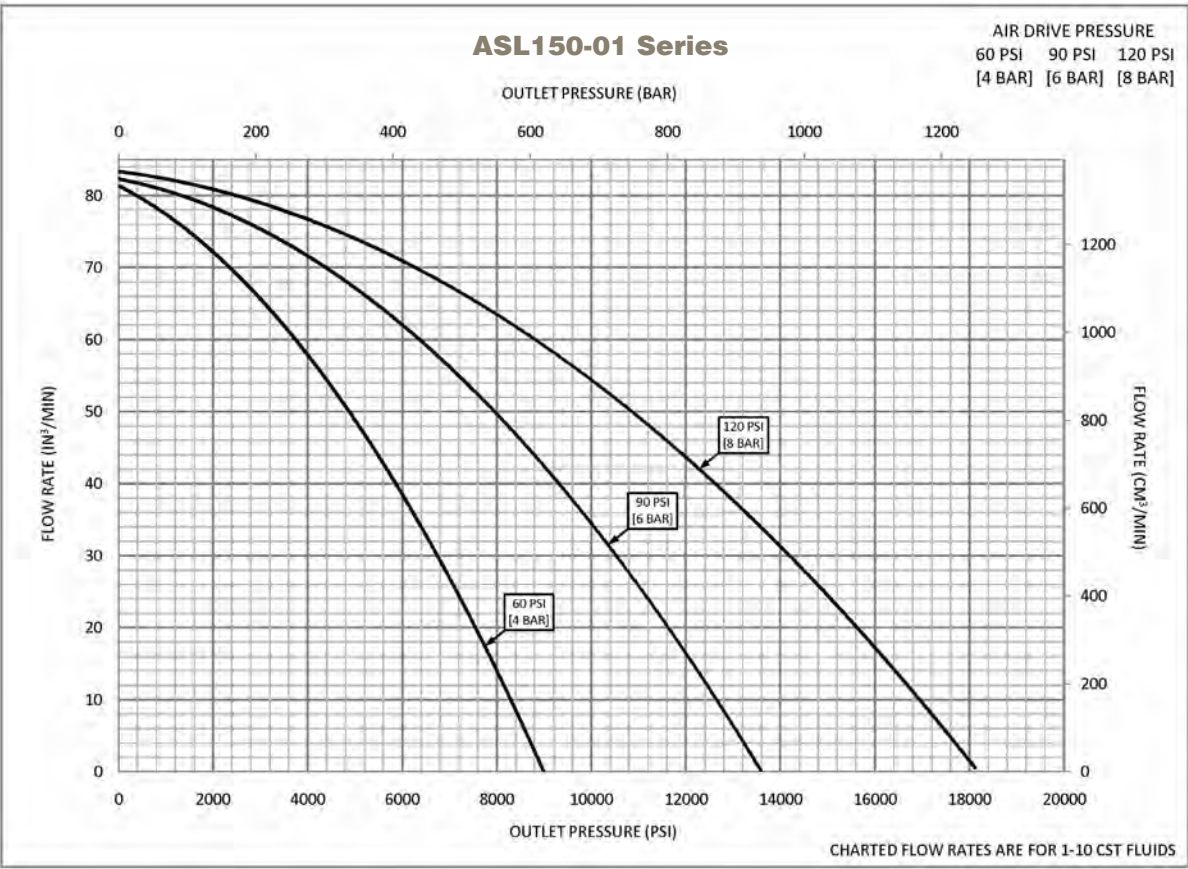
Ordering Guide:

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

Typical catalog number: **ASL150-01SNP**

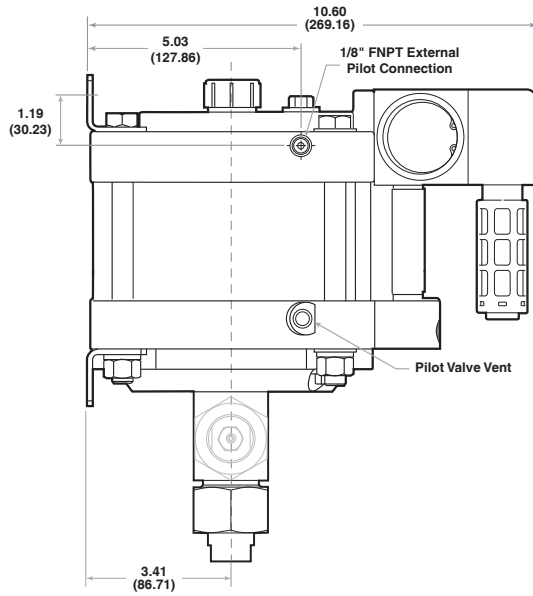


Flow Rate vs. Outlet Pressure:

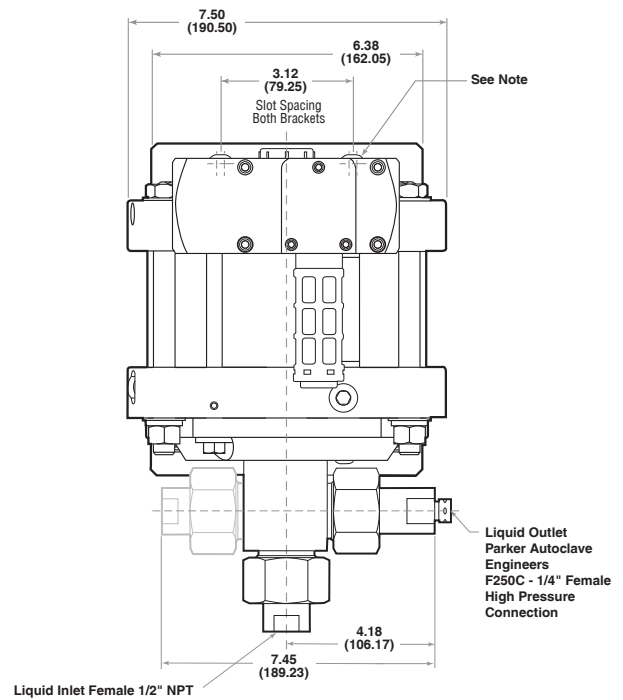


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

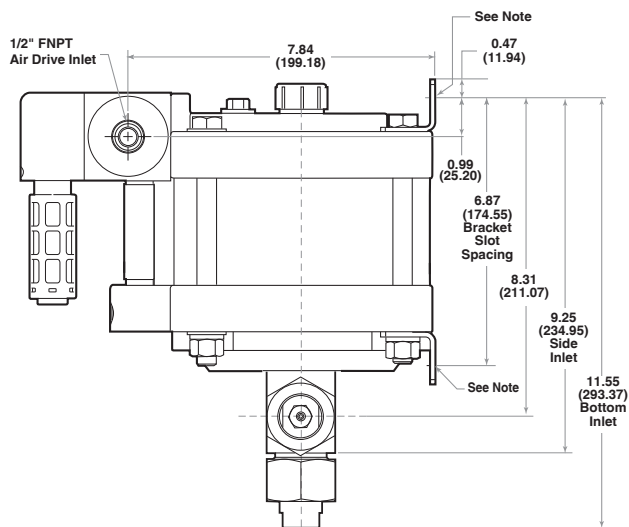
Dimensional Data:



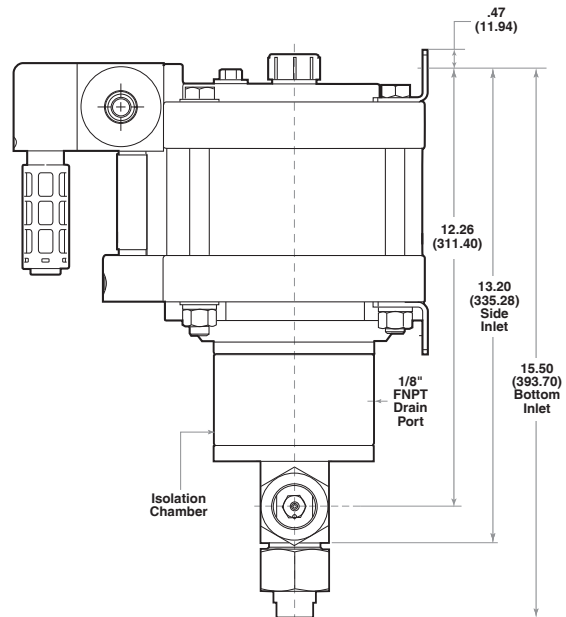
Left View



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



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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL150-01

Air-Driven, High Pressure Liquid Pump

Series ASL150-02

Single-Acting, Dual 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: 43,000 psi (2,965 bar)
- Air to Liquid Pressure Ratio: 1:300
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 0.39 in³ (6.4 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: *Parker Autoclave F250C-1/4" Female High Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 43,000 psi (2,965 bar) output pressure is 143 psi (9.9 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 90 psi: 64 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight without Isolation Chamber: 42 lbs. (19.1 kg)
- Net Weight with Isolation Chamber: 51 lbs. (23.1 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: 316 Stainless Steel
- Liquid Seal: *See Ordering Guide for Options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

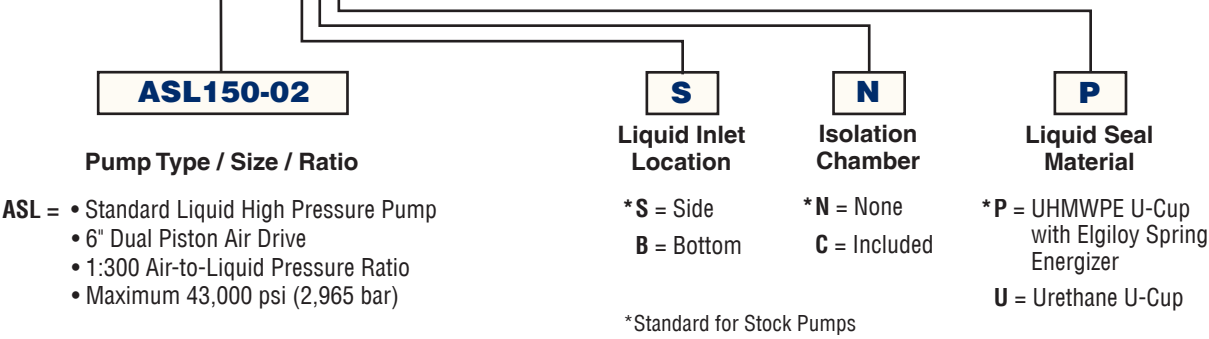


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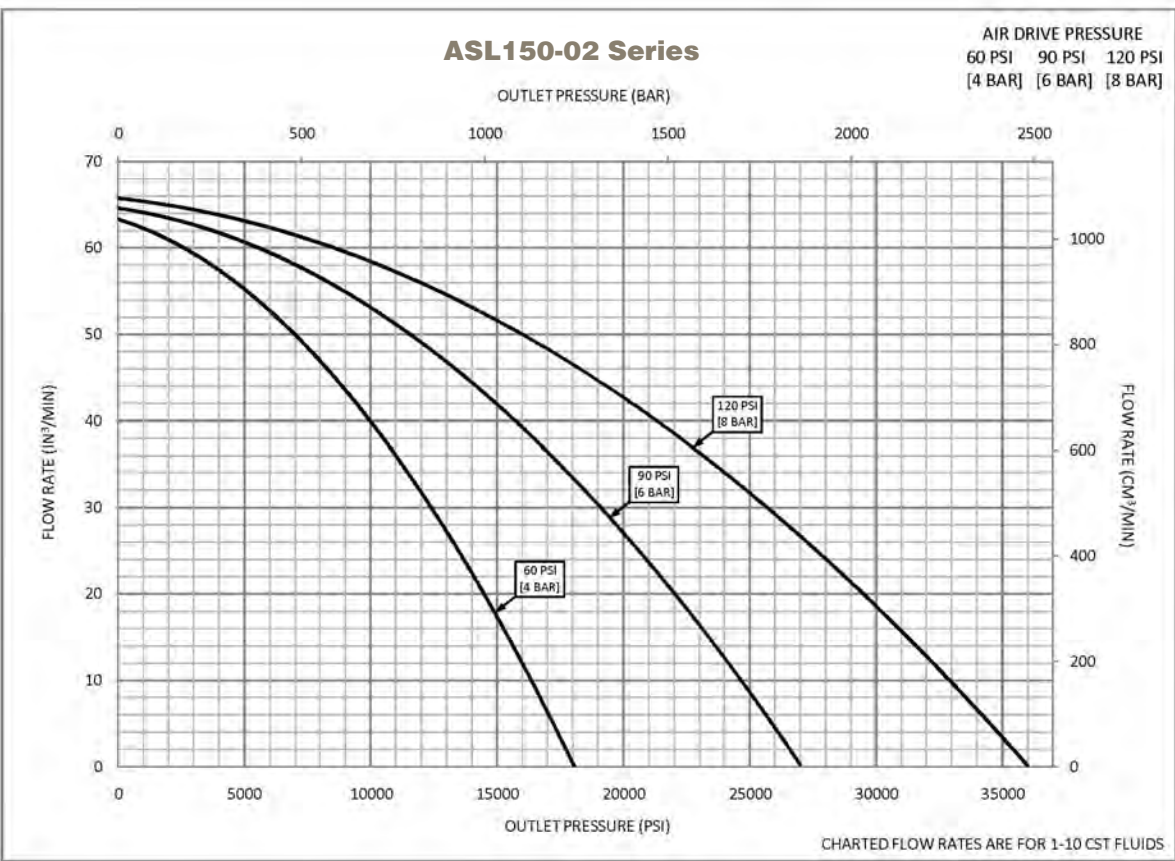
Ordering Guide:

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

Typical catalog number: **ASL150-02SNP**

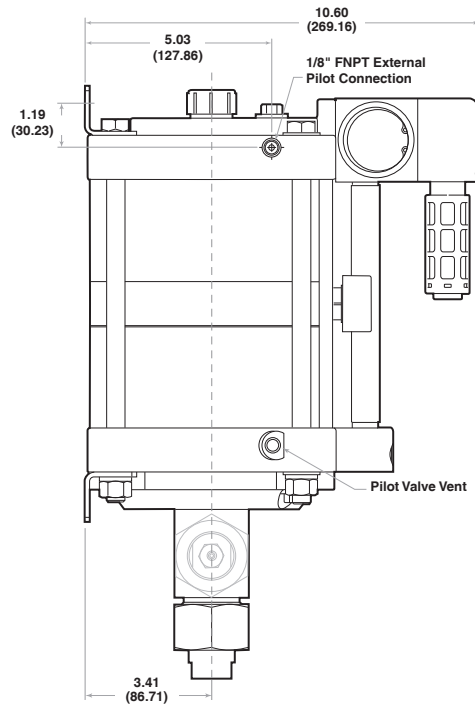


Flow Rate vs. Outlet Pressure:

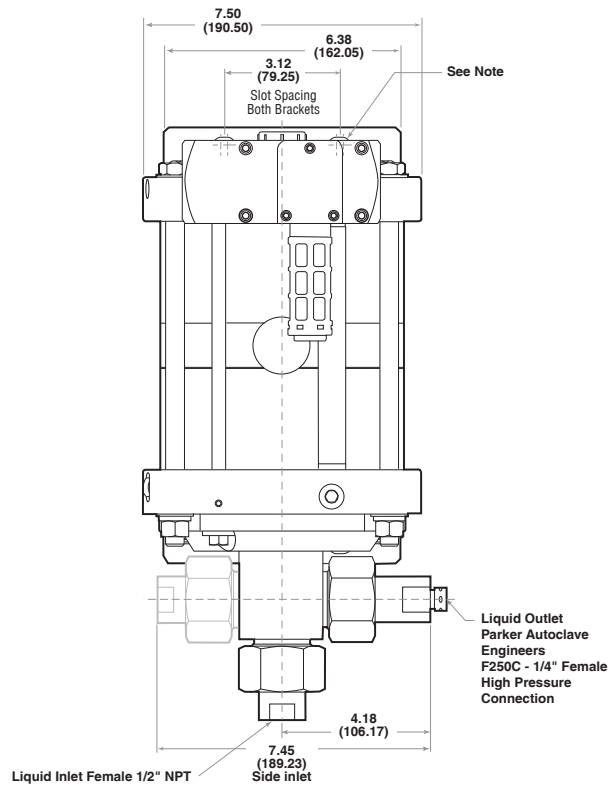


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

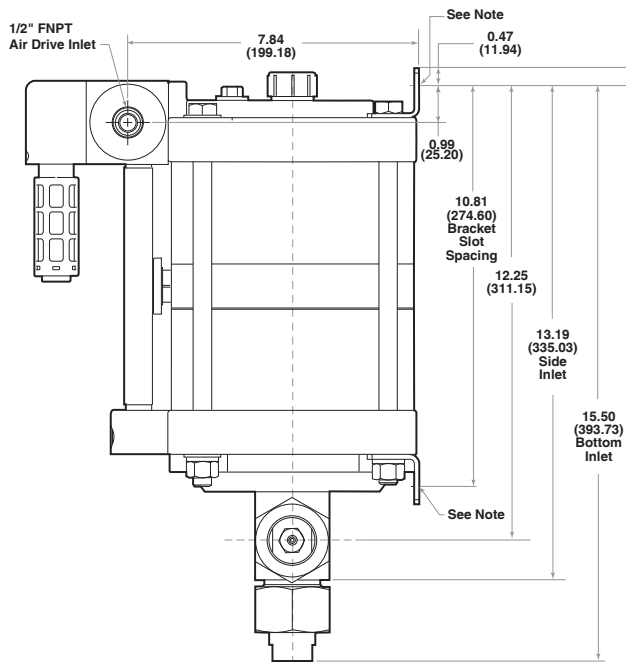
Dimensional Data:



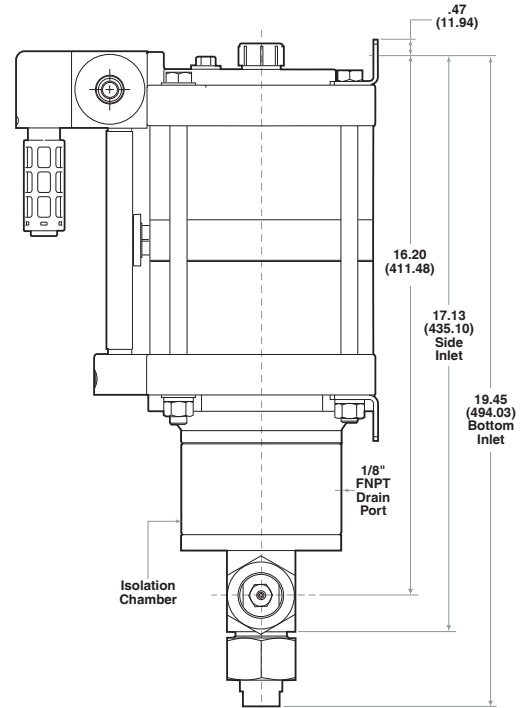
Left View



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 Parker Autoclave Engineers.

WARNING

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January 2013



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Caution! Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL150-02

Air-Driven, High Pressure Liquid Pump

Series ASL250-01

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: 38,400 psi (2,648 bar)
- Air to Liquid Pressure Ratio: 1:265
- Isolation Chamber (prevents process contamination of air section): *Optional*
- Volume Displacement Per Stroke: 0.22 in³ (3.6 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: *Parker Autoclave F250C-1/4" Female High Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 38,400 psi (2,648 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: 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: 316 Stainless Steel
- Liquid Seal: *See Ordering Guide for options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



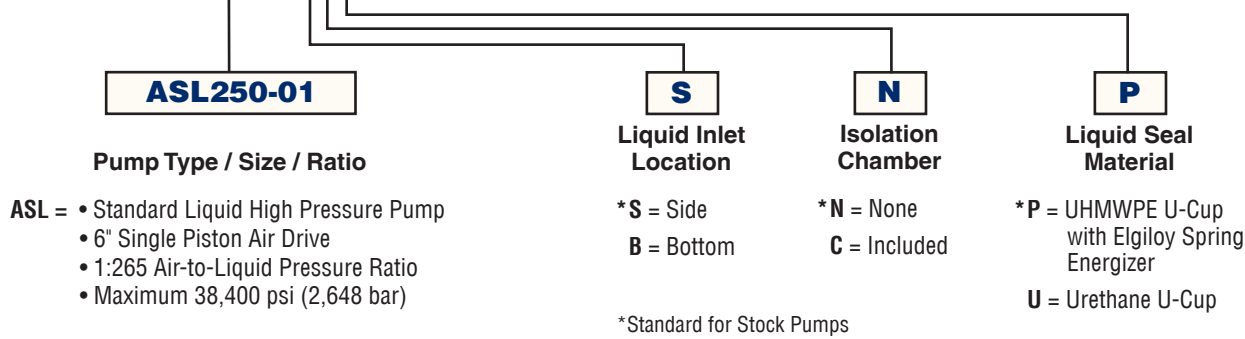
Single-Acting, Single Piston Air Drive
Bottom Inlet Shown

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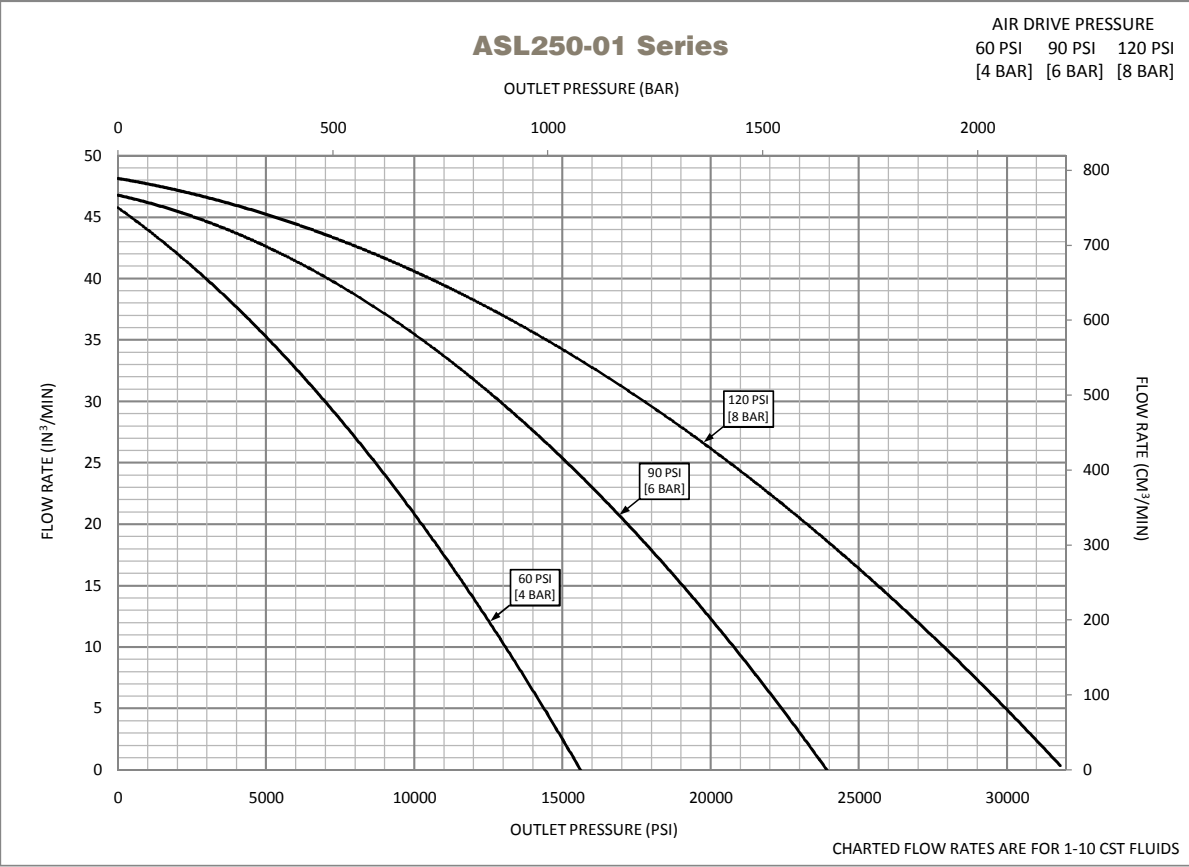
Ordering Guide:

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

Typical catalog number: **ASL250-01SNP**

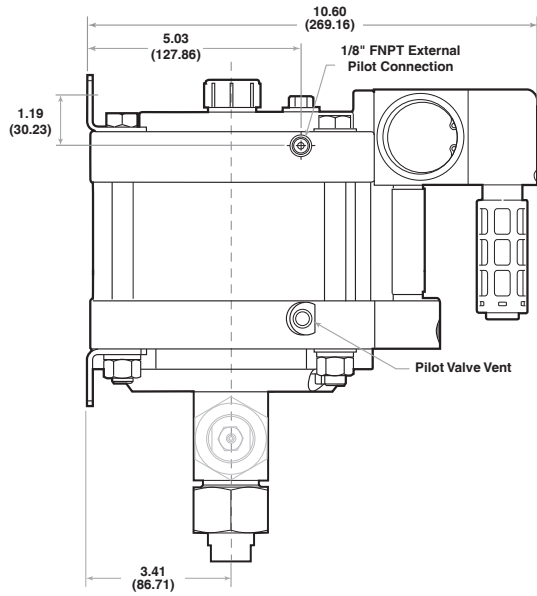


Flow Rate vs. Outlet Pressure:

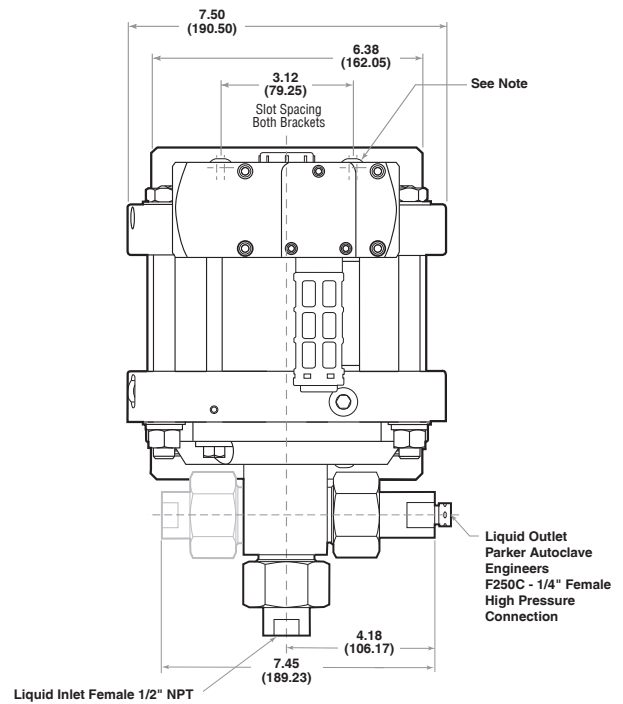


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

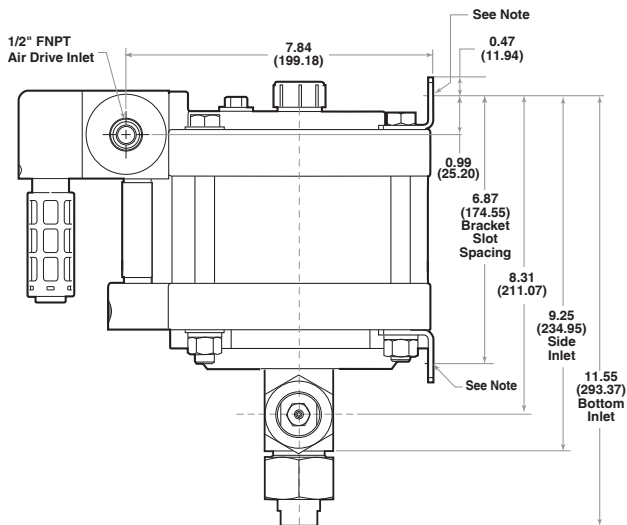
Dimensional Data:



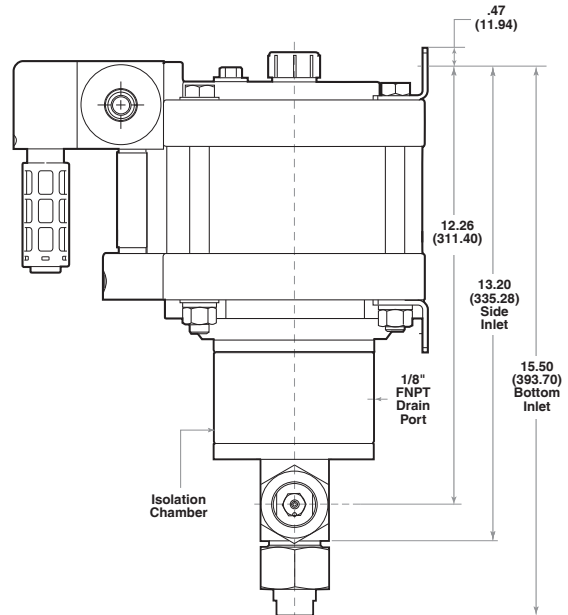
Left View



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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL250-01

Air-Driven, High Pressure Liquid Pump

Series ASL250-02

Single-Acting, Dual 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: 60,000 psi (4,137 bar)
- Air to Liquid Pressure Ratio: 1:530
- Isolation Chamber (prevents process contamination of air section): *Standard*
- Volume Displacement Per Stroke: 0.22 in³ (3.6 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: *Parker Autoclave F250C-1/4" Female High Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 60,000 psi (4,137 bar) output pressure is 113 psi (7.8 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 90 psi: 64 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight with Isolation Chamber: 54 lbs. (24.5 kg)
- Pressure Head: 15-5 PH Stainless Steel
- Plunger: Tungsten Cobalt
- Check Valve Glands: 15-5 PH Stainless Steel
- Liquid Seal: *See Ordering Guide for options*
- Air Drive Seals: *Buna N*

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

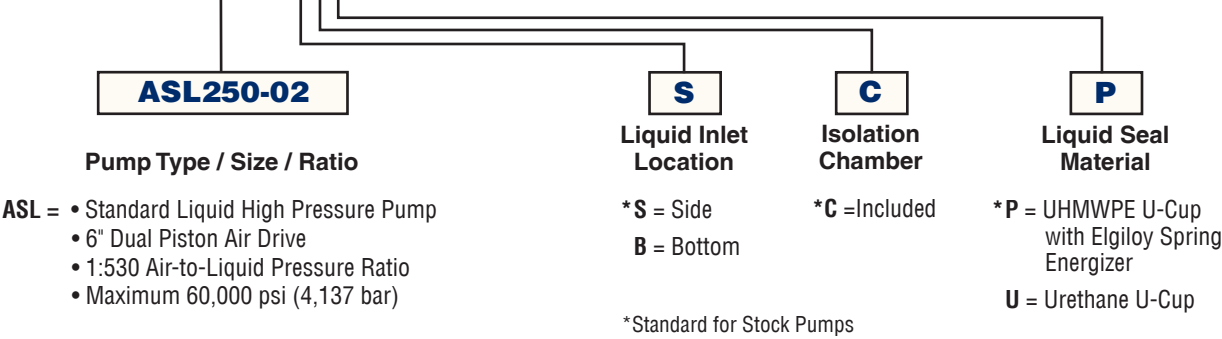


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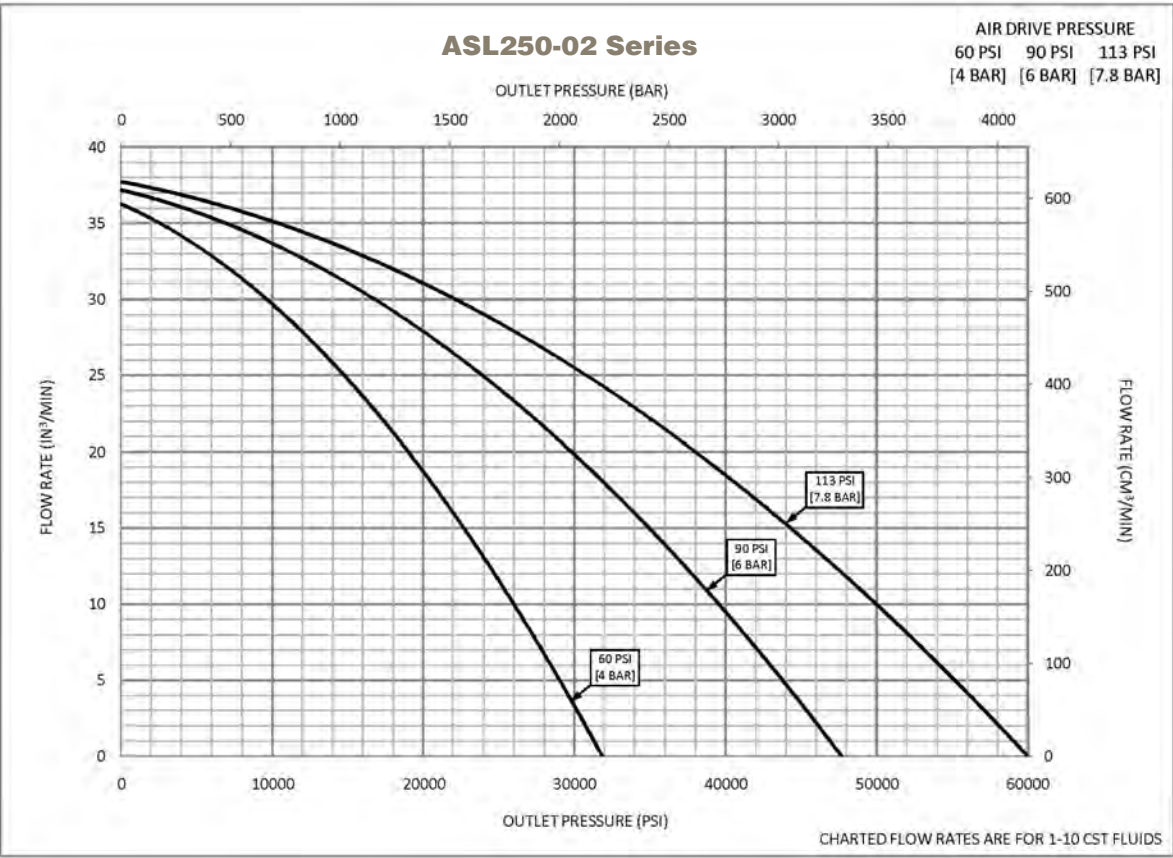
Ordering Guide:

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

Typical catalog number: **ASL250-02SCP**

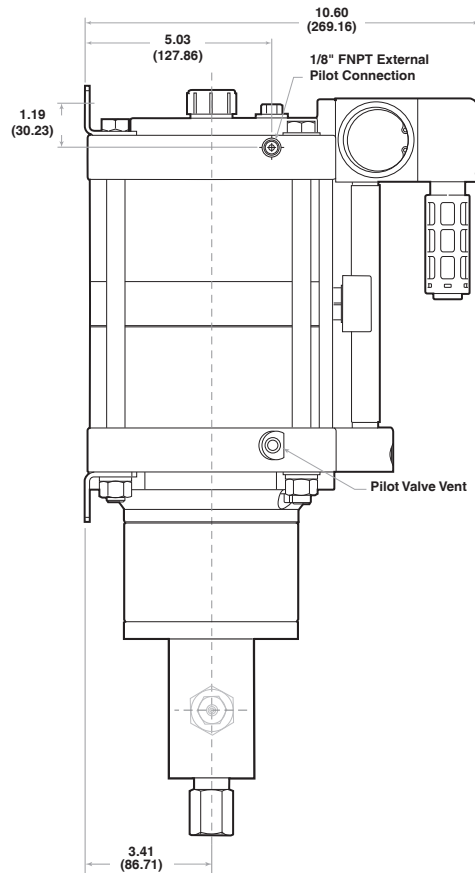


Flow Rate vs. Outlet Pressure:

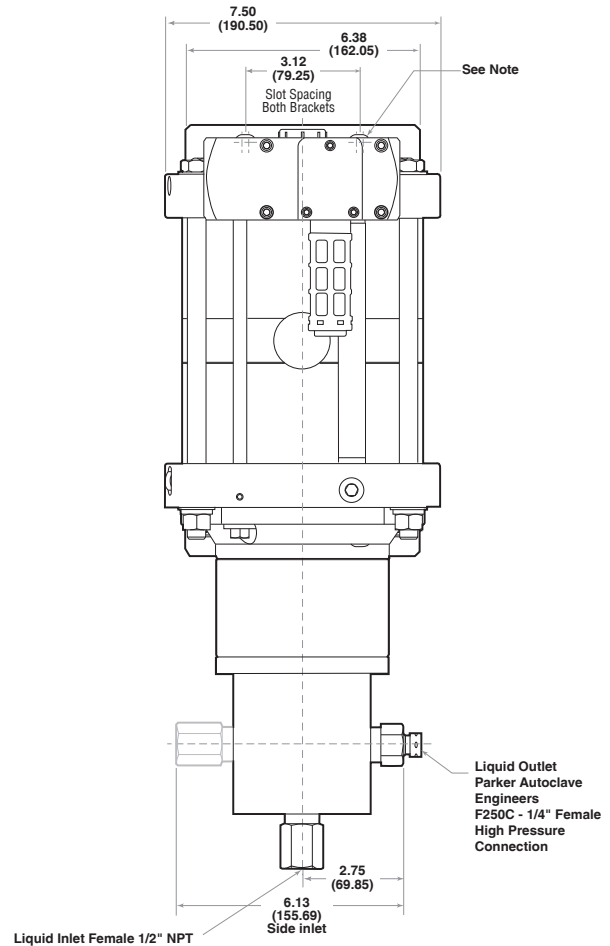


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

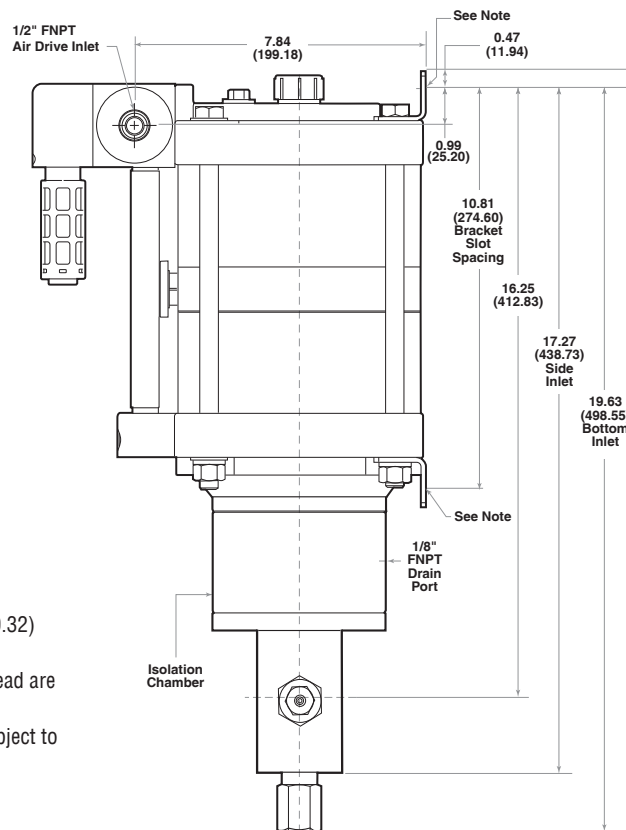
Dimensional Data:



Left View



Front View



Right View

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 Parker Autoclave Engineers.

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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL250-02

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 in³ (2.3 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: *Parker Autoclave F250C-1/4" Female High Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- 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*

Note: Maximum air drive pressure is limited by maximum output pressure.



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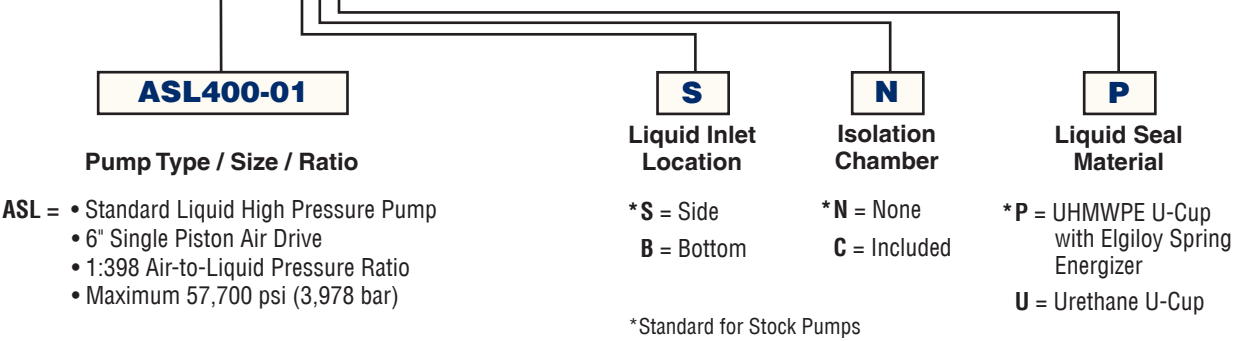
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Single-Acting, Single Piston Air Drive
Bottom Inlet Shown

Ordering Guide:

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

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

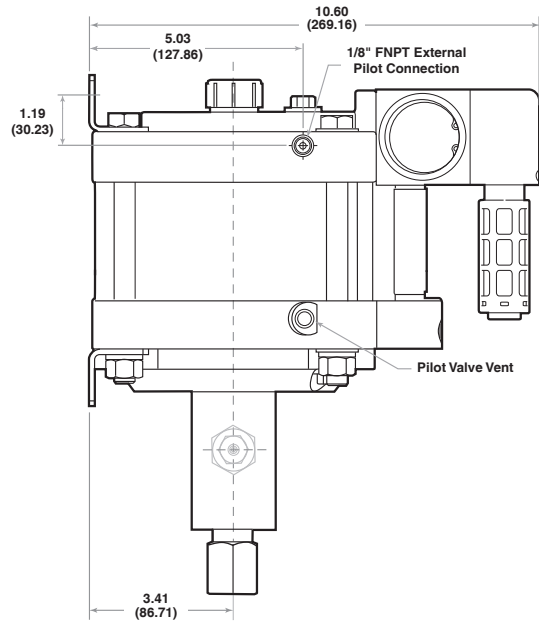


Flow Rate vs. Outlet Pressure:

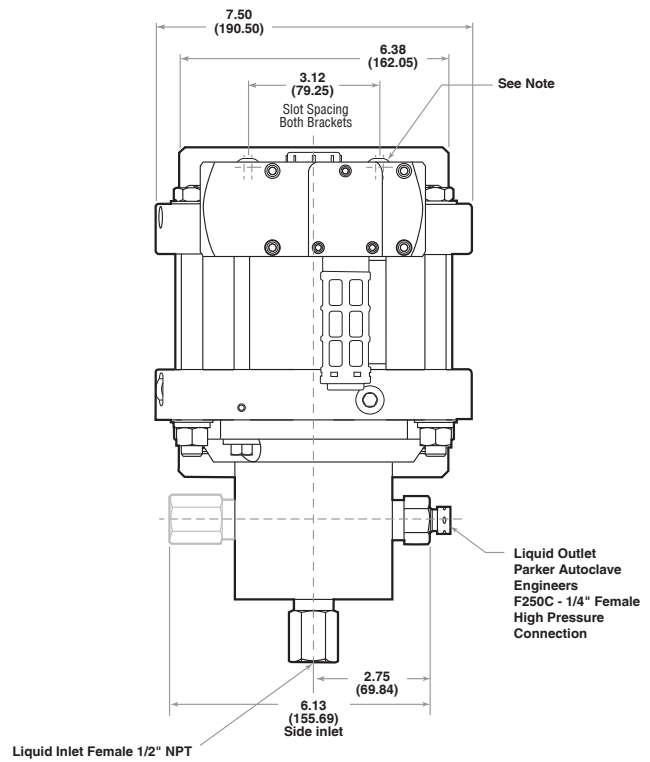


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

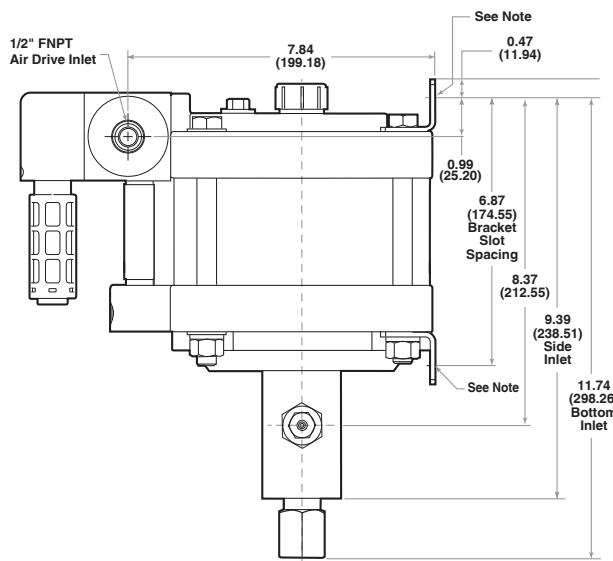
Dimensional Data:



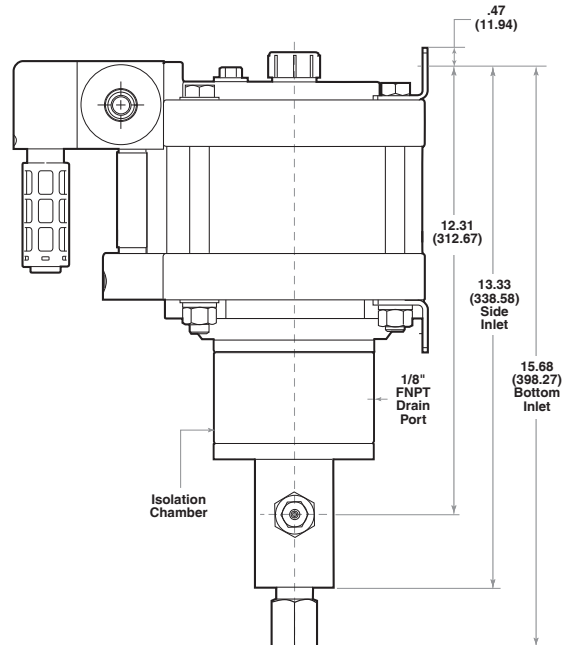
Left View



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



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ISO-9001 Certified

Air-Driven, High Pressure Liquid Pump - Series ASL400-01

Air-Driven, High Pressure Liquid Pump

Series ASL400-02

Single-Acting, Dual 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: 60,000 psi (4,137 bar)
- Air to Liquid Pressure Ratio: 1:796
- Isolation Chamber (prevents process contamination of air section): *Standard*
- Volume Displacement Per Stroke: 0.14 in³ (2.3 cm³)
- Inlet Connection: 1/2" FNPT
- Outlet Connection: *Parker Autoclave F250C-1/4" Female High Pressure*
(Contact Parker Autoclave Engineers for Additional Options)

Technical Data: Air Side Specifications

- Air Drive Pressure Range: 15-150 psi (1-10 bar) *See note
- Nominal air pressure required for 60,000 psi (4,137 bar) output pressure is 75 psi (5.2 bar)
- Inlet Port: 1/2" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1/2" FNPT
- Air Consumption @ 75 psi: 48 SCFM
- Prelubricated at Factory

General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight: 54 lbs. (24.5 kg)
- Pressure Head: 15-5 PH Stainless Steel
- Plunger: Tungsten Cobalt
- Check Valve Glands: 15-5 PH Stainless Steel
- Liquid Seal: See Ordering Guide for Options
- Air Drive Seals: Buna N

Note: Maximum air drive pressure is limited by maximum output pressure.



Single-Acting, Dual Piston Air Drive
Bottom Inlet Shown

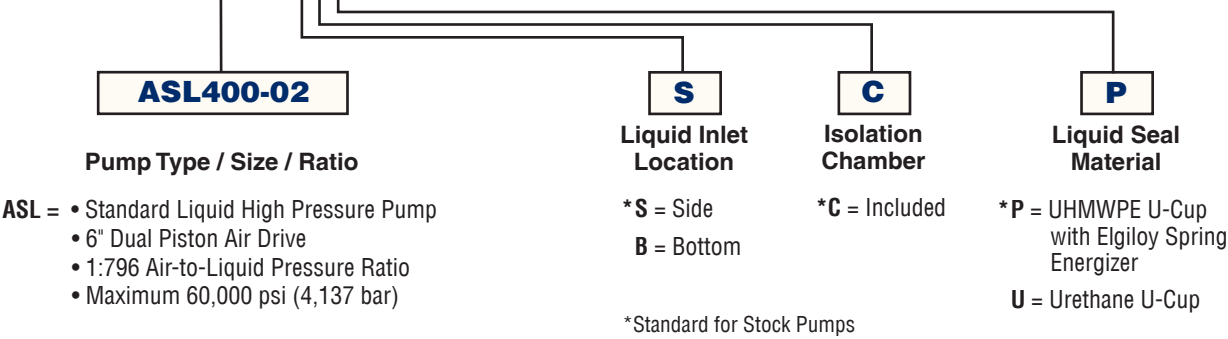


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Ordering Guide:

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

Typical catalog number: **ASL400-02SCP**

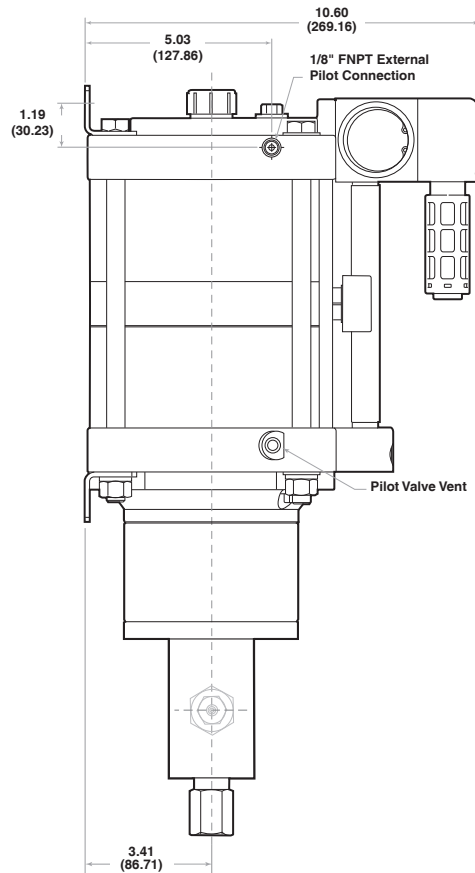


Flow Rate vs. Outlet Pressure:

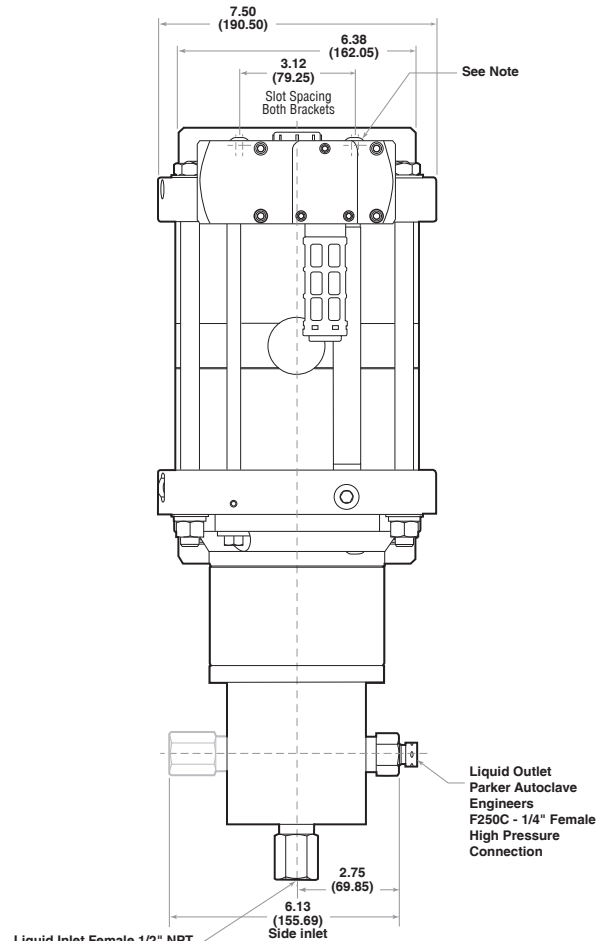


Actual flow rates will vary depending on air flow capacity, downstream flow restrictions, and fluid type.

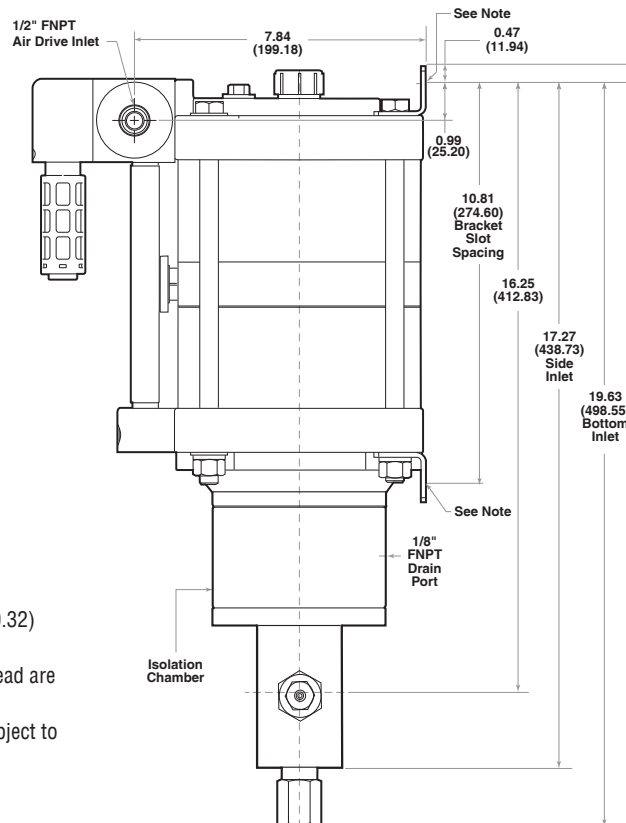
Dimensional Data:



Left View



Front View



Right View

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



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