

# Air-Driven, High Pressure Liquid Pump

## Series AFL60-1D

*Double-Acting, Single Ended, 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): Standard
- Volume Displacement Per Stroke: 3.40 in<sup>3</sup> (55.7cm<sup>3</sup>)
- Inlet Connection: 1" NPT
- Outlet Connection: Parker Autoclave Engineers SF562CX10-9/16" Female Medium Pressure

### 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: 3/4" FNPT
- Pilot Port: 1/8" FNPT (unregulated air)
- Exhaust Port (muffler removed): 1" NPT
- Max Air Consumption @ 90 psi: 167 SCFM
- Prelubricated at Factory

### General Specifications

- Maximum Operating Temperature: 0-140° F (-18° to 60° C)
- Net Weight: 51.8 lbs. (23.5 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: UHMWPE U-Cup with FKM O-rings
- Air Drive Seals: Buna N

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



Autoclave  
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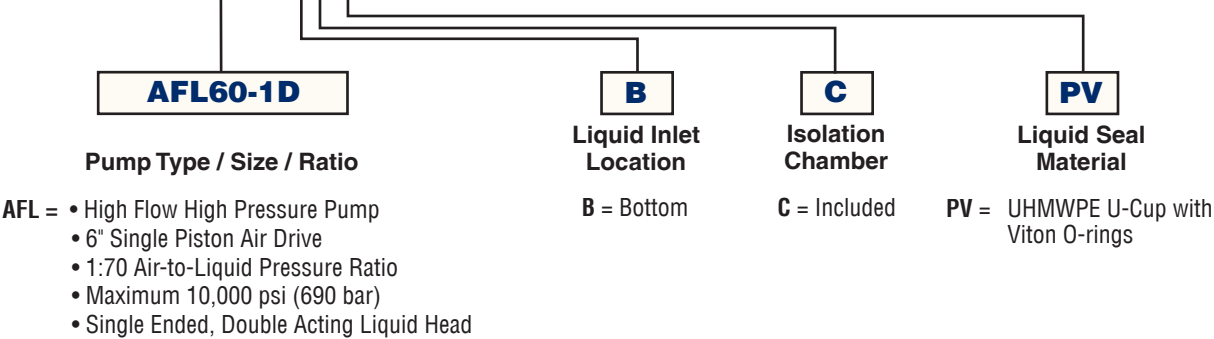
MADE IN THE U.S.A.

Double-Acting, Single Piston Air Drive

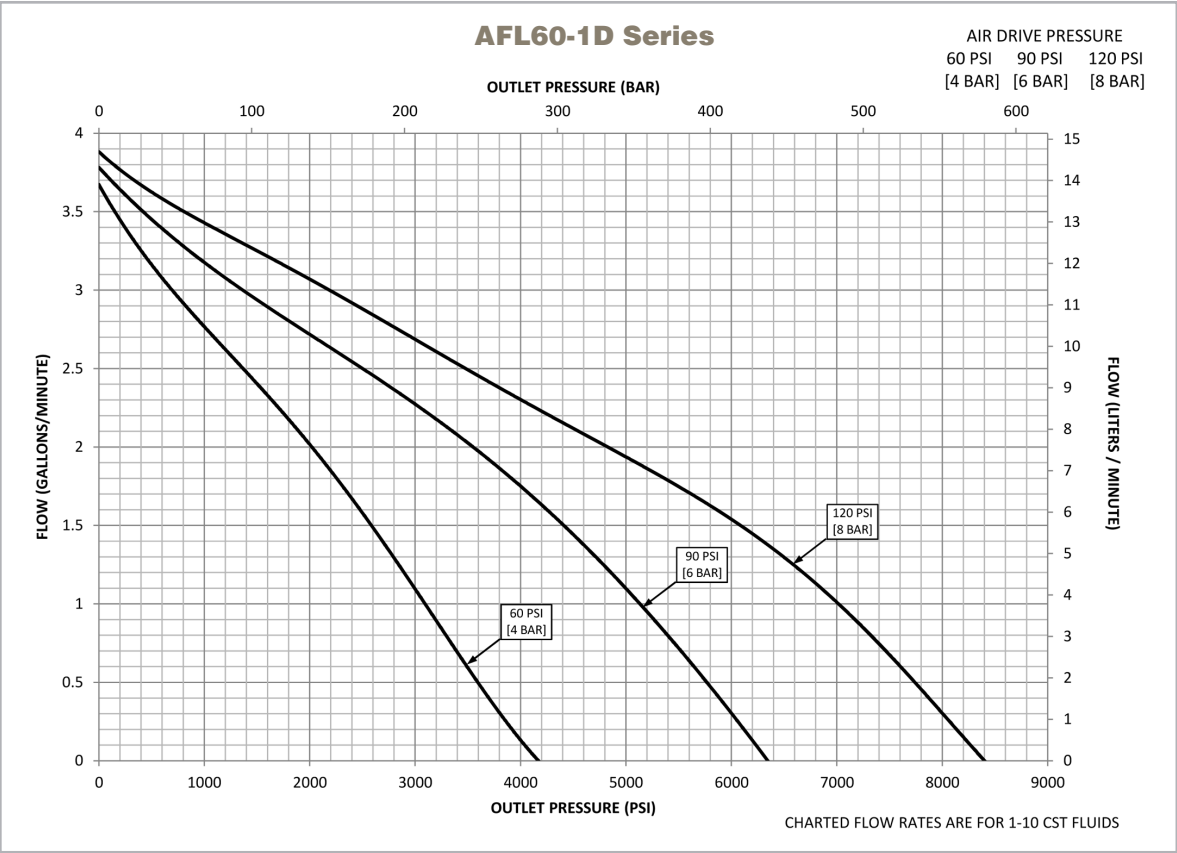
Ordering Guide:

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

Typical catalog number: **AFL60-1DBCPV**

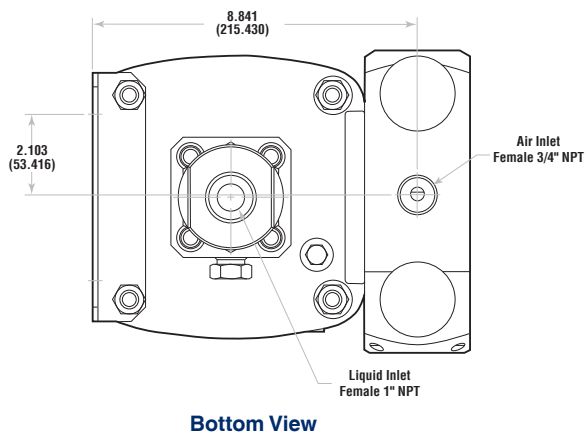
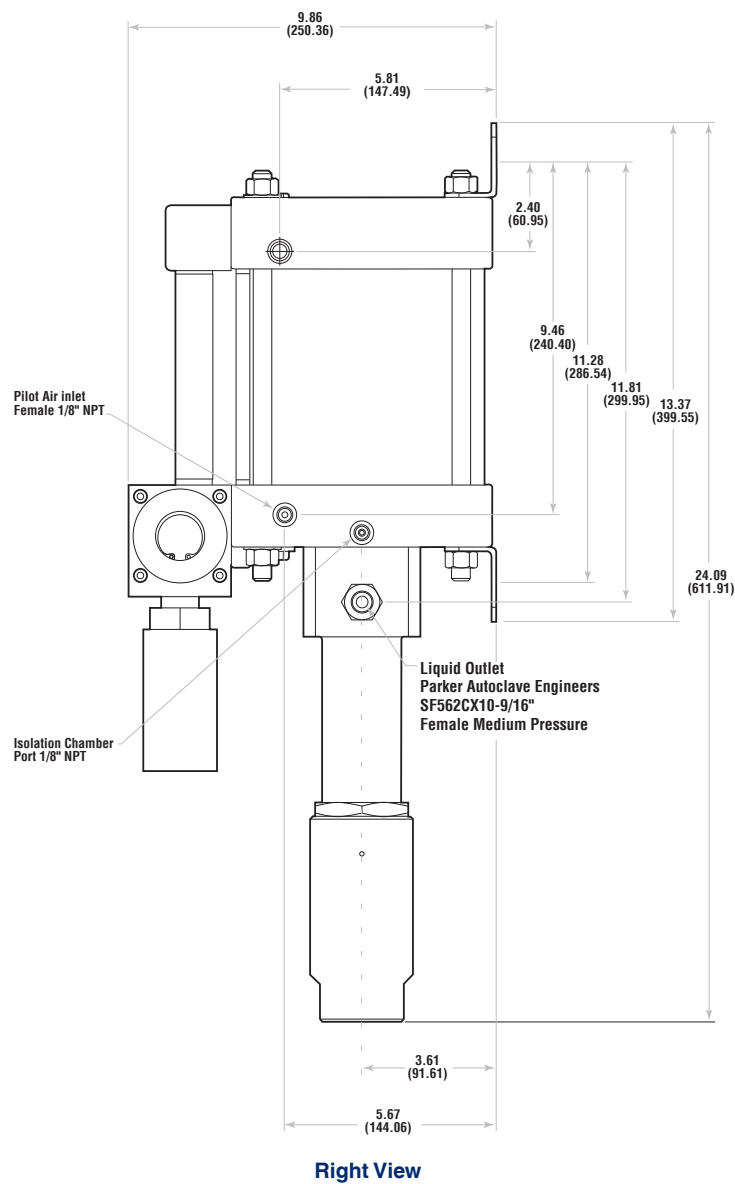


Flow Rate vs. Outlet Pressure:



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

**Dimensional Data:**



**Note:**  
Each Mounting Bracket includes (2) x 9/16" (14.29) slots for 1/2" Bolts.  
All dimensions are for reference only and are subject to change without notice.  
Primary Dimensions: Inches  
Secondary Dimensions: (Millimeters)

