

Air Driven Liquid Pump for High-Pressure Applications

This air-driven liquid pump is designed for high-pressure fluid transfer and intensification applications. It is suitable for most liquids and liquefied gases, and can maintain pressure without consuming power.



ADDITIONAL IMAGES



Overview

High-Pressure Air Driven Liquid Pump

The AHP06 Series features a single-drive, single-acting pneumatic pump designed for high-pressure fluid transfer and intensification. Capable of reaching pressures up to 100,000 psi, it utilizes an unbalanced cycling spool for immediate response to pressure changes and can stall at pre-determined levels to hold pressure without power consumption. This robust and compact unit is suitable for a wide range of liquids and liquefied gases, offering an oil-free air drive that prevents contamination and reduces maintenance costs.

Key Performance Metrics

Performance Highlights

100000 psi

Max Pressure Capability

19.9 l/min

Max Flow Rate

150 psi

Max Drive Pressure

Technical Features

Features

- ★ Choice of 10 ratios.
- ★ Flows to 19.9 l/min.
- ★ Choice of wetted materials.
- ★ Output pressures to 60,000 psi (4137 bar).
- ★ Drive pressure 3 to 150 psi (0.2 to 10.3 bar).
solvents, mild chemicals, liquefied gases.

The AHP06 series offers 10 different ratios and output pressures up to 60,000 psi for various chemical and gas applications.

Core Features

- Infinitely variable cycling speed
- Stall feature at pre-determined pressure
- Unbalanced cycling spool for immediate response
- No air-line lubrication required
- Robust, compact, and easy to maintain design
- Easily automated with multiple control options

Compliance & Standards

Available Compliance

CE, ATEX, NACE

Material Compatibility

Compatible Fluids

Solvents • Mild Chemicals • Liquefied Gases • Hydraulic Fluids

Model Specifications

Performance and Specification

Pump Model Code	Max. Out Press.	Actual Ratio	Dis. /Cycle	Max. Flow	Inlet Port	Outlet Port
AHP06-1S-10	1600psi	14:1	66.4ml	19.9l/min	1"FNPT	1/2"FNPT
AHP06-1S-15	2400psi	18:1	44.3ml	13.3l/min	1"FNPT	1/2"FNPT
AHP06-1S-25	4000psi	30:1	26.6ml	8l/min	1/2"FNPT	1/2"FNPT
AHP06-1S-35	5700psi	45:1	19.0ml	5.7l/min	1/2"FNPT	1/2"FNPT
AHP06-1S-60	10000psi	72:1	11.0ml	3.3l/min	1/2"FNPT	1/2"FNPT
AHP06-1S-100	15000psi	120:1	6.7ml	2 l/min	1/2"FNPT	1/2"FNPT
AHP06-1S-150	22500psi	180:1	4.5ml	1.3l/min	1/2"FNPT	1/4"HF
AHP06-1S-225	33750psi	270:1	3.0ml	0.7l/min	1/2"FNPT	1/4"HF
AHP06-1S-300	45000psi	360:1	2.3ml	0.5l/min	1/2"FNPT	1/4"HF
AHP06-1S-450	60000psi	545:1	1.5ml	0.3l/min	1/2"FNPT	1/4"HF

HF means female high pressure connection.

Comprehensive performance data including displacement per cycle and port sizes for different pump models.

Model Performance Data

Model Code	Max Output (psi)	Ratio	Displacement/Cycle (ml)	Max Flow (l/min)	Inlet/Outlet Port
AHP06-1S-10	1600	14:1	66.4	19.9	1" FNPT / 1/2" FNPT
AHP06-1S-25	4000	30:1	26.6	8	1/2" FNPT / 1/2" FNPT
AHP06-1S-60	10000	72:1	11	3.3	1/2" FNPT / 1/2" FNPT
AHP06-1S-150	22500	180:1	4.5	1.3	1/2" FNPT / 1/4" HF
AHP06-1S-450	60000	545:1	1.5	0.3	1/2" FNPT / 1/4" HF

Operational Requirements

Min Drive Pressure	3 psi
Max Drive Pressure	150 psi