

Air Driven Liquid Pump

This air driven liquid pump offers capabilities up to 100,000 psi (7000 bar) and infinitely variable cycling speed. The design includes a stall feature at a pre-determined pressure to hold that pressure without consuming power.



ADDITIONAL IMAGES



Overview

AHP06 Series Double Drive Double Acting Pump

The AHP06 Series is a high-performance air-driven liquid pump designed for demanding industrial applications requiring pressures up to 50,000 psi. Featuring a robust double-drive, double-acting configuration, it provides immediate response to pressure changes thanks to an unbalanced cycling spool. This pump is ideal for hazardous environments as it requires no electricity and eliminates the need for air-line lubrication, preventing contamination and reducing maintenance costs.

Performance Highlights

Features

- ★ Choice of 4 ratios.
- ★ Flows to 8.6 l/min.
- ★ Choice of wetted materials.
- ★ Output pressures to 50,000 psi (3448 bar).
- ★ Drive pressure 3 to 150 psi (0.2 to 10.3 bar).

Overview of the AHP06 Series capabilities including pressure ratios and drive pressure ranges.

Performance Metrics

50000 psi

Max Output Pressure

8.6 l/min

Max Flow Rate

150 psi

Max Drive Pressure

Technical Features

Core Features

- Infinitely variable cycling speed
- Stall feature at pre-determined pressure to hold without power consumption
- Unbalanced cycling spool for immediate response
- No air-line lubrication required
- Robust, compact, and easy to maintain design
- Suitable for most liquids and liquefied gases

Compliance & Standards

Applicable Standards

CE, ATEX, NACE

Model Specifications

Performance and Specification

| Pump Model Code | Max. Out Press. | Actual Ratio | Dis. /Cycle | Max. Flow | Inlet Port | Outlet Port |
|-----------------|-----------------|--------------|-------------|-----------|------------|-------------|
| AHP06-2D-70 | 11000psi | 90:1 | 38ml | 8.6l/min | 1/2"FNPT | 1/2"FNPT |
| AHP06-2D-120 | 19000psi | 144:1 | 22ml | 4.9l/min | 1/2"FNPT | 1/2"FNPT |
| AHP06-2D-200 | 33000psi | 240:1 | 13.4ml | 3.0l/min | 1/2"FNPT | 1/4"HF |
| AHP06-2D-300 | 50000psi | 360:1 | 9ml | 2.0l/min | 1/2"FNPT | 1/4"HF |

HF means female high pressure connection.

Detailed technical specifications for AHP06-2D models, including flow rates and port sizes.

AHP06 Series Model Comparison

| Model Code | Max Output Pressure (psi) | Actual Ratio | Displacement/Cycle (ml) | Max Flow (l/min) | Inlet Port | Outlet Port |
|--------------|---------------------------|--------------|-------------------------|------------------|------------|-------------|
| AHP06-2D-70 | 11000 | 90:1 | 38 | 8.6 | 1/2" FNPT | 1/2" FNPT |
| AHP06-2D-120 | 19000 | 144:1 | 22 | 4.9 | 1/2" FNPT | 1/2" FNPT |
| AHP06-2D-200 | 33000 | 240:1 | 13.4 | 3 | 1/2" FNPT | 1/4" HF |
| AHP06-2D-300 | 50000 | 360:1 | 9 | 2 | 1/2" FNPT | 1/4" HF |

Operating Ranges

| | |
|--------------------|---------|
| Min Drive Pressure | 3 psi |
| Max Drive Pressure | 150 psi |