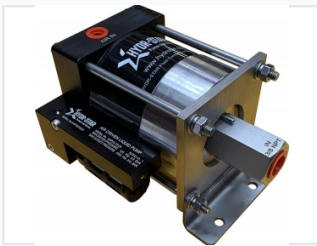


Air Driven Liquid Pump

This air driven liquid pump is capable of pressures up to 100,000 psi (7000 bar). Its stall feature at a pre-determined pressure holds that pressure without consuming power.



ADDITIONAL IMAGES



Overview

High-Performance Air Driven Liquid Pump

The AHP03 Series is a single-drive, single-acting pneumatic pump designed for high-pressure fluid transfer and boosting applications. It offers a robust and reliable solution capable of reaching pressures up to 100,000 psi (7000 bar) depending on the configuration. With its stall feature and infinitely variable cycling speed, it provides precise control and energy efficiency without the need for air-line lubrication.

Key Features

Features

- ★ Choice of 9 ratios.
- ★ Flows to 8.3 l/min.
- ★ Choice of wetted materials .
- ★ Pressures to 25,000 psi(1723 bar).
- ★ All Hydraulic fluids, water(plain or DI), solvents, mild chemicals, liquefied gases.

Key features of the AHP03 series including pressure capabilities up to 25,000 psi and compatibility with various hydraulic fluids and gases.

Core Benefits

- Infinitely variable cycling speed
- Stall feature at pre-determined pressure to hold pressure without power consumption
- No air-line lubrication required to prevent contamination
- Unbalanced cycling spool for immediate response to pressure changes
- Robust, compact, and easy to maintain design
- Easily automated with multiple control options

Performance Highlights

Maximum Pressure Capability

100000 psi
Max Pressure

7000 bar
Max Pressure

Maximum Flow Rate

8.3 l/min

Compatibility & Compliance

Available Certifications

CE • ATEX • NACE

Compatible Liquids

Hydraulic Fluids, Water (Plain/DI), Solvents, Mild Chemicals, Liquefied Gases

Technical Specifications

Performance and Specification

| Pump Model Code | Max.Out Press. | Actual Ratio | Dis. /Cycle | Max.Flow | Inlet Port | Outlet Port |
|-----------------|----------------|--------------|-------------|-----------|------------|-------------|
| AHP03-1S-5 | 625psi | 5.6:1 | 13.6ml | 8.30l/min | 1"FNPT | 1/2"FNPT |
| AHP03-1S-7 | 900psi | 7.8:1 | 9.8ml | 6.0l/min | 3/4"FNPT | 1/2"FNPT |
| AHP03-1S-12 | 1500psi | 14:1 | 5.9ml | 3.83l/min | 3/4"FNPT | 1/2"FNPT |
| AHP03-1S-21 | 2600psi | 25:1 | 3.3ml | 2.13l/min | 3/8"FNPT | 1/4"FNPT |
| AHP03-1S-36 | 4500psi | 41:1 | 2.0ml | 1.28l/min | 3/8"FNPT | 1/4"FNPT |
| AHP03-1S-71 | 8800psi | 82:1 | 1.0ml | 0.64l/min | 3/8"FNPT | 1/4"FNPT |
| AHP03-1S-110 | 13500psi | 126:1 | 0.6ml | 0.42l/min | 3/8"FNPT | 1/4"FNPT |
| AHP03-1S-188 | 15000psi | 217:1 | 0.4ml | 0.29l/min | 3/8"FNPT | 1/4"FNPT |
| AHP03-1S-220 | 25000psi | 237:1 | 0.34ml | 0.22l/min | 3/8"FNPT | 1/4"HF |

Detailed performance metrics across 9 different pump ratios, showing pressure, flow rates, and port sizes.

AHP03 Series Model Specifications

| Model Code | Max Out Pressure (psi) | Ratio | Displacement/Cycle (ml) | Max Flow (l/min) | Inlet Port | Outlet Port |
|--------------|------------------------|-------|-------------------------|------------------|------------|-------------|
| AHP03-1S-5 | 625 | 5.6:1 | 13.6 | 8.3 | 1" FNPT | 1/2" FNPT |
| AHP03-1S-7 | 900 | 7.8:1 | 9.8 | 6 | 3/4" FNPT | 1/2" FNPT |
| AHP03-1S-12 | 1500 | 14:1 | 5.9 | 3.83 | 3/4" FNPT | 1/2" FNPT |
| AHP03-1S-21 | 2600 | 25:1 | 3.3 | 2.13 | 3/8" FNPT | 1/4" FNPT |
| AHP03-1S-36 | 4500 | 41:1 | 2 | 1.28 | 3/8" FNPT | 1/4" FNPT |
| AHP03-1S-71 | 8800 | 82:1 | 1 | 0.64 | 3/8" FNPT | 1/4" FNPT |
| AHP03-1S-110 | 13500 | 126:1 | 0.6 | 0.42 | 3/8" FNPT | 1/4" FNPT |
| AHP03-1S-188 | 15000 | 217:1 | 0.4 | 0.29 | 3/8" FNPT | 1/4" FNPT |
| AHP03-1S-220 | 25000 | 237:1 | 0.34 | 0.22 | 3/8" FNPT | 1/4" HF |