

Rexroth A10VSO vs A4VG: What's the Difference?

Quanzhou, Fujian Aug 14, 2026 ([IssueWire.com](https://www.IssueWire.com)) - When selecting an axial piston hydraulic pump, engineers and equipment manufacturers often compare the **Rexroth A10VSO** and **Rexroth A4VG** series.

Although both are variable displacement axial piston pumps with swashplate design, they are engineered for completely different hydraulic systems and applications.

What Is the Rexroth A10VSO?

Main Features

- Swashplate axial piston design
- Variable displacement control
- High volumetric efficiency
- Low operating noise
- Through-drive capability for tandem pumps
- Multiple control options, including pressure, load-sensing, and power control

Typical Applications

The A10VSO is commonly used in:

- Hydraulic power units (HPUs)
- Injection molding machines
- Presses
- Machine tools
- Cranes
- Excavator working hydraulics
- Agricultural equipment

What Is the Rexroth A4VG?

Main Features

- Closed circuit design
- Integrated charge pump
- Bidirectional flow
- High-pressure operation
- Fast dynamic response
- Excellent speed and torque control
- Multiple hydraulic and electronic control options

Typical Applications

The A4VG is widely used in:

- Excavator travel drives

- Wheel loaders
- Road rollers
- Asphalt pavers
- Forestry machinery
- Mining vehicles
- Mobile construction equipment

Rexroth A10VSO vs A4VG Comparison Table			
Feature	Rexroth A10VSO	Rexroth A4VG	Pump
Type	Variable displacement axial piston pump	Variable displacement axial piston pump	Circuit
Type	Open circuit	Closed circuit	Design
	Swashplate design	Swashplate design	Main Function
	Supplies hydraulic power to cylinders and motors	Drives hydrostatic transmission systems	Oil Flow
	Reservoir → Pump → Valve → Actuator → Tank	Pump ↔ Hydraulic Motor (closed loop)	Integrated Charge
Pump	No	Yes	Flow Direction
	One-way flow	Bidirectional flow	Forward/Reverse Control
	Requires directional control valves	Achieved by changing the pump displacement	Pressure Rating
	High-pressure operation (typically up to 280 bar continuous)	High-pressure operation (typically up to 400 bar continuous)	Peak Pressure
	Up to approximately 350 bar	Up to approximately 450–500 bar (depending on model)	Control Options
	DR, DFR, DFR1, LR, EDHD, HW, EP, DA, DG, EZ and electronic controls	Through Drive	Available
	Available on selected models	Speed Control	Limited
	Excellent, designed for precise speed regulation	Efficiency	High volumetric efficiency
	Very high transmission efficiency	Typical Actuator	Hydraulic cylinders and auxiliary motors
	Typical Applications	Hydraulic power units, injection molding machines, presses, cranes, machine tools	Excavators, wheel loaders, pavers, road rollers, harvesters, mining equipment
	Installation Complexity	Relatively simple	More complex due to closed-loop system
	Maintenance	Easy	Moderate
	Initial Cost	Lower	Higher
	Best For	Industrial hydraulic systems	Mobile hydrostatic drive systems
	Quick Selection Guide	If Your Equipment Needs...	Recommended Pump
	Hydraulic cylinders	A10VSO	Industrial hydraulic power unit
	A10VSO	Injection molding machine	A10VSO
	Press machine	A10VSO	Machine tool
	A10VSO	Excavator travel drive	A4VG
	Wheel loader transmission	A4VG	Crawler drive
	A4VG	Hydrostatic transmission	A4VG
	Continuous forward & reverse operation	A4VG	Precise speed control
	A4VG	Heavy-duty mobile machinery	A4VG
	Why Choose Quanzhou Bole Automation Engineering Co., Ltd.?		

Quanzhou Bole Automation Engineering Co., Ltd. is a professional manufacturer of high-performance hydraulic components, specializing in the research, development, production, and sales of hydraulic piston pumps, hydraulic motors, gear pumps, and precision replacement parts.

We provide one-stop manufacturing services, including CNC machining, heat treatment, precision assembly, and comprehensive quality inspection. Every product undergoes strict quality control and full-process traceability to ensure consistent performance and reliability.

Our advantages include:

- ISO 9001 certified manufacturing
- OEM & ODM customization
- High-precision CNC machining
- Stable product quality
- Competitive factory pricing
- Fast global delivery
- Professional technical support

Whether you need replacement pumps compatible with the Rexroth A10VSO or A4VG series, our

engineering team can provide reliable hydraulic solutions tailored to your equipment.

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Source : Quanzhou Bole Automation Engineering Co., Ltd.

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