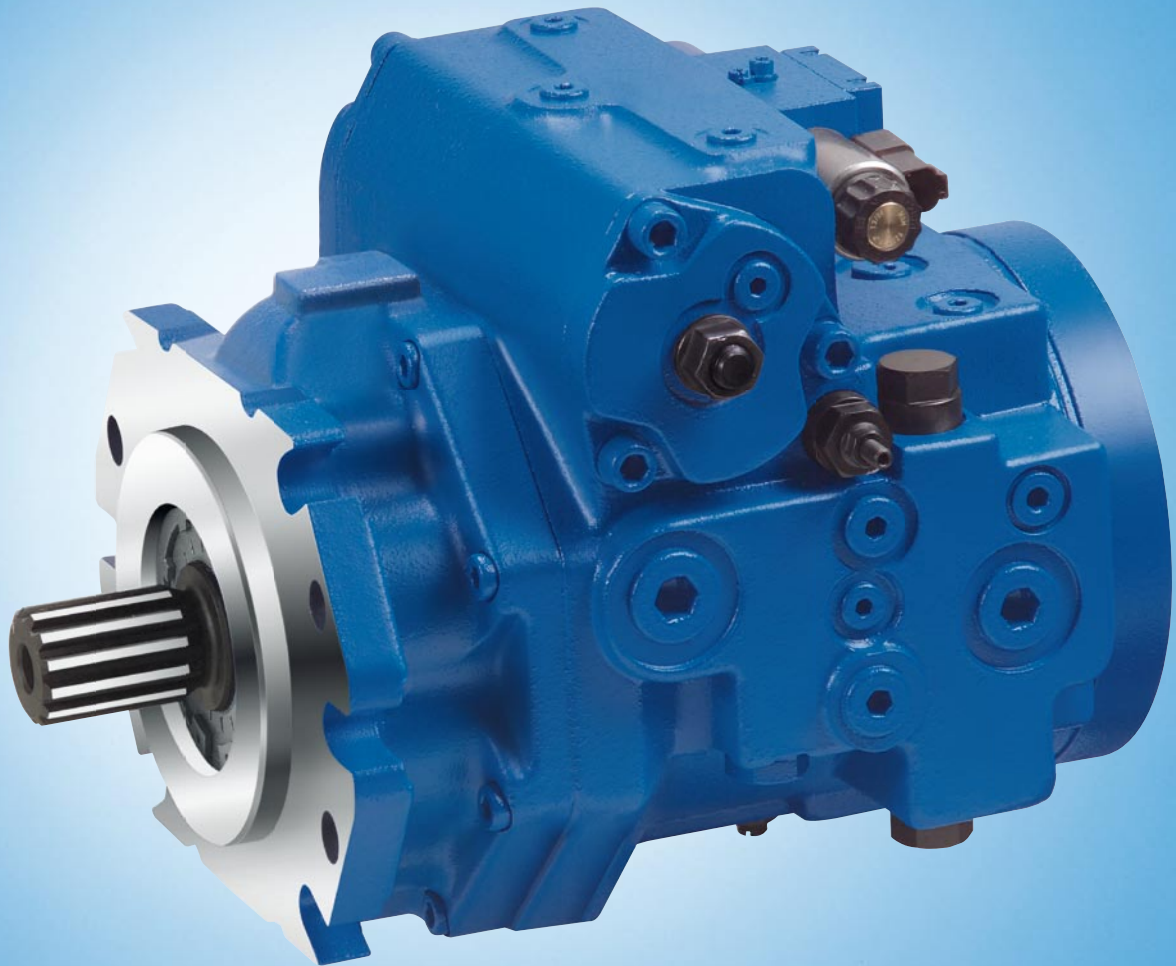


# High Pressure Leads The Way: Variable Axial Piston Pump A4VG Series 40



The Drive & Control Company



## More Impressive Than Ever Before: The New A4VG Series 40 Variable Pump

A4VG Series 40 variable pumps give you greater power density and a wider range of nominal sizes for greater flexibility. With rated pressure now increased by 50 bar – to 450 bar – and peak pressure at 500 bar, for matched nominal sizes, you get an energy-efficient and power-optimized system configuration. That means reduced fuel consumption and fewer harmful emissions.

The new Series 40 gives you added convenience, too. A new, reworked pump housing provides improved functionality and flexibility – and a new flange design reduces the number of seal points and optimizes the arrangement of high-pressure ports.





Extensive final inspection guarantees proven Rexroth quality

**The new A4VG Series 40 variable pump offers:**

Increased pressure range	▶	Greater power density
Wide range of nominal sizes	▶	Optimal system design
Optimized installation length for each nominal size	▶	Space saving configuration
Fewer seal points	▶	Increased leakage security
Greater efficiency	▶	Less power loss
Motor and bearing optimization	▶	Longer service life
100% through-drive with defined flange location	▶	No torque restriction when installing additional pumps
Low-noise design	▶	Reduced noise emission

**A4VG Series 40 variable pump**

Nominal sizes: 45, 65, 85, 110,  
145, 175, 210\*, 280\*

Rated pressure: 450 bar

Peak pressure: 500 bar

\* in development

**Control types:**

- HP – Hydraulic proportional
- HW – Hydraulic, mechanical servo
- HT – Hydraulic, direct
- DA – Hydraulic, speed related
- EP – Electric, proportional solenoid
- EZ – Electric two-point
- EV – Electric proportional, direct

**For additional information see:** Data sheet RE 92004

With a broad range of nominal sizes tailored to new market demands, you can now get the ideal variable pump for your system.

The pump housings accommodate a variety of sensors, such as swivel angle and speed sensors. The comprehensive, modular control line offers precise control for any application.

**Subjects that drive and move us**

**Environment:** Ever more stringent regulations and emissions limits place increasingly high demands on hydraulic pumps and motors. Through innovative developments and the latest materials, we're meeting these challenges. Let the new variable pump from Rexroth put you on the right path towards higher power densities and greater efficiency.

**Cost:** Long component service life plus cost-effective manufacturing and operation are the two key factors in minimizing Total Cost of Ownership (TCO). Our design advances create a new generation of pumps – with higher pressure ranges, increased power density, improved service life under comparable operating conditions, and reduced operating costs.

**Function:** The new generation axial piston pump operates over an increased pressure range up to a maximum 500 bar. The higher operating pressures plus improved efficiency mean greater pulling force and higher drive speeds. Precision engineered innovations further increase the proven functionality and flexibility of the existing series of pumps.

**Energy:** Increasing energy prices make fuel consumption a key factor for end users – and make energy efficiency a more persuasive argument than ever for travel drives. Their high energy efficiency comes with high power density as well, so the Rexroth drive makes a strong contribution to energy savings.

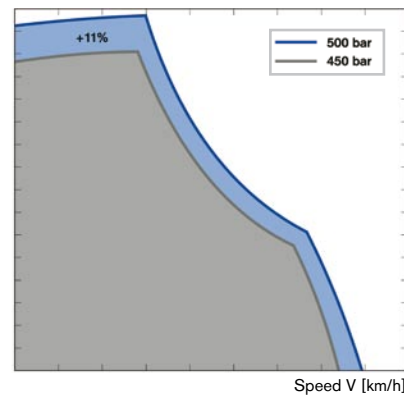
# Rexroth Travel Drives: Higher Pressure, More Efficiency

The new, high-performance travel drive from Rexroth provides increased power with reduced overall costs. The travel drive consists of the new A4VG Series 40 variable pump and the new A6VM Series 71 hydraulic motor, for a special emphasis on energy efficiency and concern for the environment. That means high performance, lower mobile equipment fuel consumption and reduced harmful emissions. With its extended performance range, the drive helps manufacturers of construction equipment, agricultural and forestry machinery, material handling equipment and road vehicles meet the most challenging emissions standards.



## Extended performance range

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## Applications

- Harvesters
- Wheel loaders
- Cranes
- Road construction equipment
- Aircraft tugs
- Tracked vehicles (bulldozers, snow groomers)
- Fork lift trucks
- Forestry machinery



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