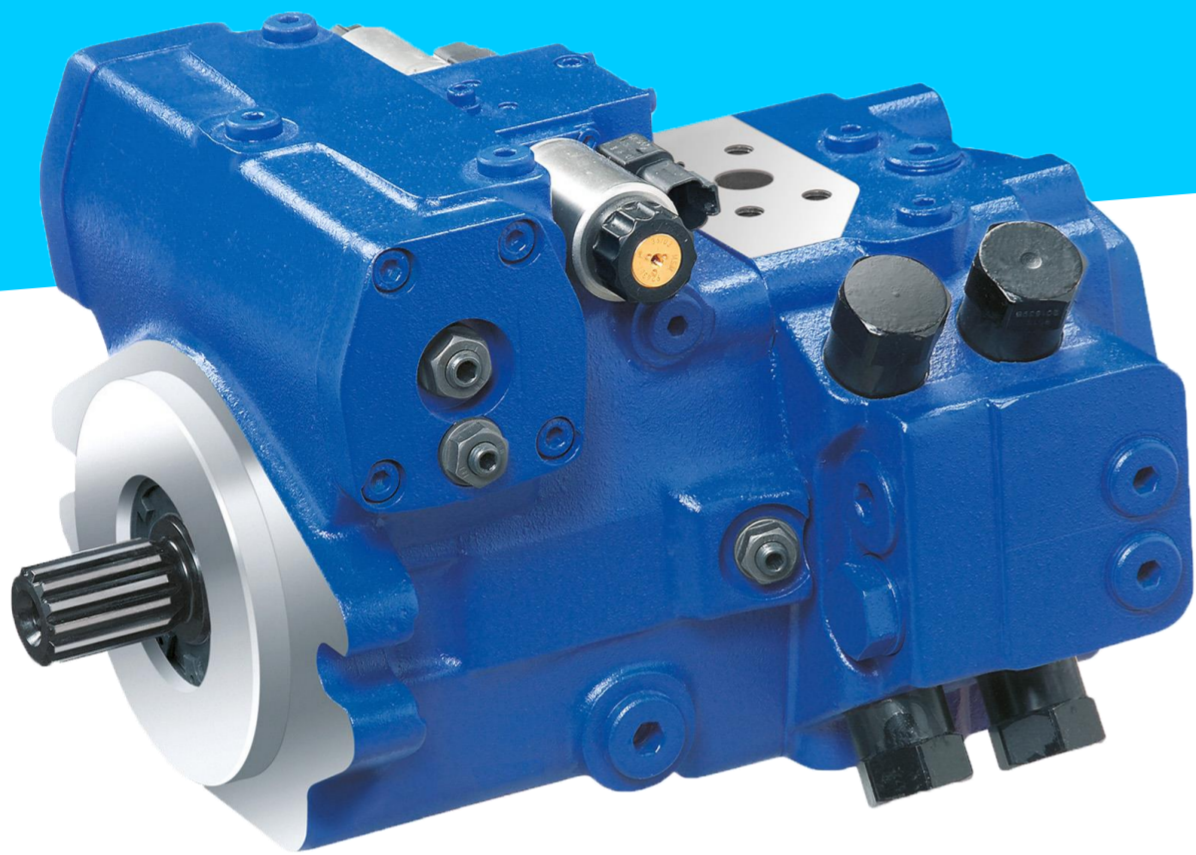


# Axial piston variable pump A30VG series 10

Compact dual-circuit variable pump for efficient travel drives



Short development times and the simple adaptability of travel drives for different applications are essential requirements of mobile working machine manufacturers. The prerequisite for this and for further increases in the efficiency of hydrostatic travel drives is the combination of hydraulics and electronics. The axial piston variable pump A30VG series 10 fulfills these requirements through its complete compatibility with the BODAS mobile electronics product range from Rexroth and proven standard software. It is particularly suitable for use in hydrostatic travel drives, such as found in municipal vehicles and construction machinery.

## CUSTOMER BENEFITS

- Efficient dual-circuit variable pump with differential lock function
- Complete compatibility with the BODAS mobile electronics product range from Rexroth
- Wide range of applications
- Lowest space requirement – best in class
- Two pressure relief valves per circuit to protect the hydrostatic transmission from overloading

## FUNCTION AND BENEFITS

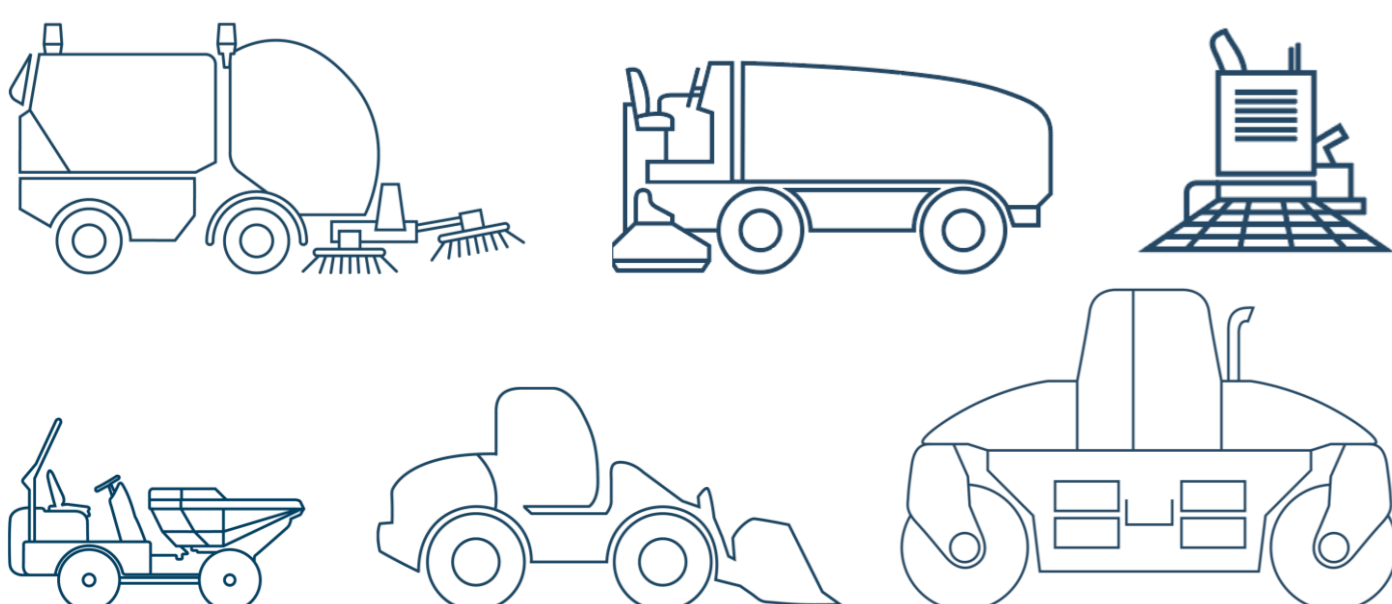
### Efficient dual-circuit variable pump with differential lock function

The Rexroth axial piston variable pump A30VG series 10 is a dual-circuit pump in swashplate design with integrated boost pump. In closed circuits it supplies two synchronously variable, separate circuits each with a flow of 28 cm<sup>3</sup> per rotation. In this way, it can serve the function of a hydraulic differential lock. Both flows are regulated by a common control. Various control devices (e.g. proportional electric control) are available. The A30VG achieves a high efficiency due to the absence of flow dividers.

### Complete compatibility with the BODAS mobile electronics product range from Rexroth

The axial piston variable pump A30VG series 10 is universally compatible with the BODAS mobile electronics product range from Rexroth. It is compatible with Rexroth standard controllers from series 3x and higher, as well as current pressure sensors. It can be adjusted mechanically or electronically. Proven, predefined software functions for control devices accelerate the implementation of new concepts for efficient hydrostatic travel drives, for example wheel drives with longitudinal and cross locks. As a proven solution, Rexroth supplies the pumps with all electronic components and specially adapted radial piston motors.

## APPLICATIONS





## TECHNICAL DATA

### Axial piston variable pump A30VG series 10

Size:	28
Displacement:	2 x 28 cm <sup>3</sup>
Nominal pressure:	300 bar
Maximum pressure:	350 bar
Flange:	SAE-J744
Drive shafts:	1 1/4 in, 1 3/8 in
Working ports:	SAE flange ports: 3/4 in
Control devices:	<ul style="list-style-type: none"><li>▪ EP – Proportional electric control</li><li>▪ HW – Proportional hydraulic control, mechanical servo</li></ul>
Installation length:	approx. 300mm
Data sheet:	93430

### Wide range of applications

The Rexroth A30VG is designed for wheel drives in combination with a mechanical differential lock or series motor control, as well as for roller drives. It supports convenient switching of the hydraulic motors while driving. In addition, the comprehensive concept covers the requirements of articulated machines with single-wheel drives. Construction machinery manufacturers can also use it for synchronous working drives in a closed circuit with high efficiency requirements.

### Lowest space requirement – best in class

The Rexroth A30VG series 10 stands out from the crowd thanks to its compact design. At a size of 28 cm<sup>3</sup>, the installation length is only 300 mm. This simplifies the mounting of the Rexroth A30VG and the required pipes in limited installation spaces, such as experienced in compact road rollers and municipal vehicles. The A30VG has the lowest space requirement among comparable conventional pumps – best in class.

### Two pressure relief valves to protect the hydrostatic transmission from overloading

The Rexroth axial piston variable pump A30VG series 10 is equipped with two pressure relief valves per circuit to protect the hydrostatic transmission (hydraulic pump and motor) from overloading. These secure the respective high-pressure side and simultaneously serve the function of a boost valve. The Rexroth A30VG series 10 is particularly suitable for a boost valve.



The Rexroth A30VG series 10 is particularly suitable for hydrostatic travel drives, such as in municipal vehicles.