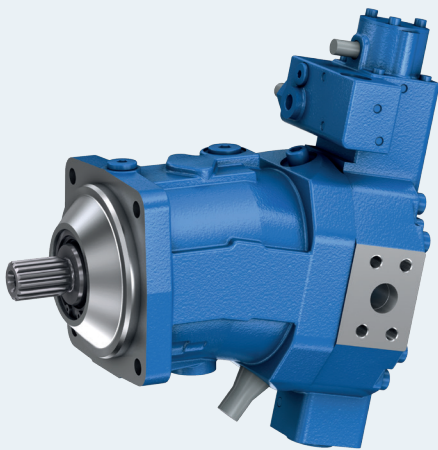


Axial piston variable pump A7VO series 63

High efficiency and high working pressures

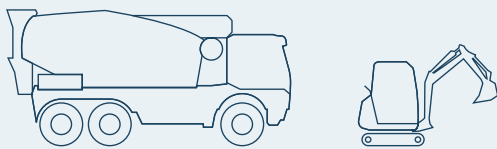
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Rexroth axial piston variable pump A7VO series 63

Customer benefits

- ▶ High efficiency
- ▶ High pressure level and low power dissipation
- ▶ Compact design for limited installation space
- ▶ Working ports at the rear or on the side
- ▶ Robust and proven variable pump in bent-axis design



Applications

Worldwide stricter regulations exist for exhaust emissions of mobile working machines. Machines with lower power are affected by less demanding emission regulations. For this reason, manufacturers of construction machinery using diesel motors with the lowest possible power. At this, the productivity level of the construction machinery must be maintained. Therefore, the equipment manufacturer must increase the efficiency of the hydraulics system. The Rexroth axial piston variable pump A7VO series 63 with high efficiency and high working pressures contributes significantly to this requirement. For use in construction machinery with very limited installation space (e.g. compact excavators, concrete mixers), the Rexroth A7VO series 63 is additionally available in two sizes with side ports.

Function and benefits

High efficiency

The Rexroth A7VO series 63 features optimized rotary groups which improve the overall efficiency by 3 to 5 percent compared to common hydraulic pumps. This increases the total efficiency of mobile working machines, whereby the fuel consumption and the operating costs are reduced for the operator.

High pressure level and low power dissipation

The hydraulic efficiency is fundamentally determined by the working pressure. The higher the pressure, the lower the flow needed to transmit the same power. Thus, the flow losses in the hydraulic system are reduced. The Rexroth axial piston variable pump A7VO series 63 offers a pressure level of 350/400 bar. This means a higher pressure level of up to 70 bar in relation to comparable products which are typically used in concrete mixers and compact excavators.

Axial piston variable pump A7VO series 63

High efficiency and high working pressures

Technical data

Axial piston variable pump A7VO series 63

Sizes:	28 to 160 cm ³
Nominal pressure:	350 bar
Maximum pressure:	400 bar
Speed:	1900 to 3150 rpm
Data sheet:	92202
Working ports:	Ports located at the rear, sizes 55 and 80 are optionally available with ports on the side
Control devices:	Proportional overridable power controller, load sensing controller, pressure controller
Installation length:	215 mm to 349 mm



The Rexroth axial piston variable pump A7VO series 63 is also available in two sizes with working ports on the side.

Compact design

In construction machinery (e.g. mini and compact excavators) the installation space available for hydraulic components is increasingly limited. For this reason, the Rexroth axial piston variable pump A7VO series 63 is available in the sizes 55 and 80 with ports located at the rear and optionally at the side of the housing. Thanks to the working ports situated on the side, manufacturers of construction machinery gain valuable installation space. Design modifications or other technical adaptations at the working machine are not necessary – a clear benefit.

Robust and proven bent-axis design

Rexroth possesses many years of experience in developing and producing high quality and reliable axial piston units in bent-axis design as well as in implementing and commissioning of the products in various applications. This comprehensive expertise has been incorporated in the development of the Rexroth axial piston variable pump A7VO series 63.

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