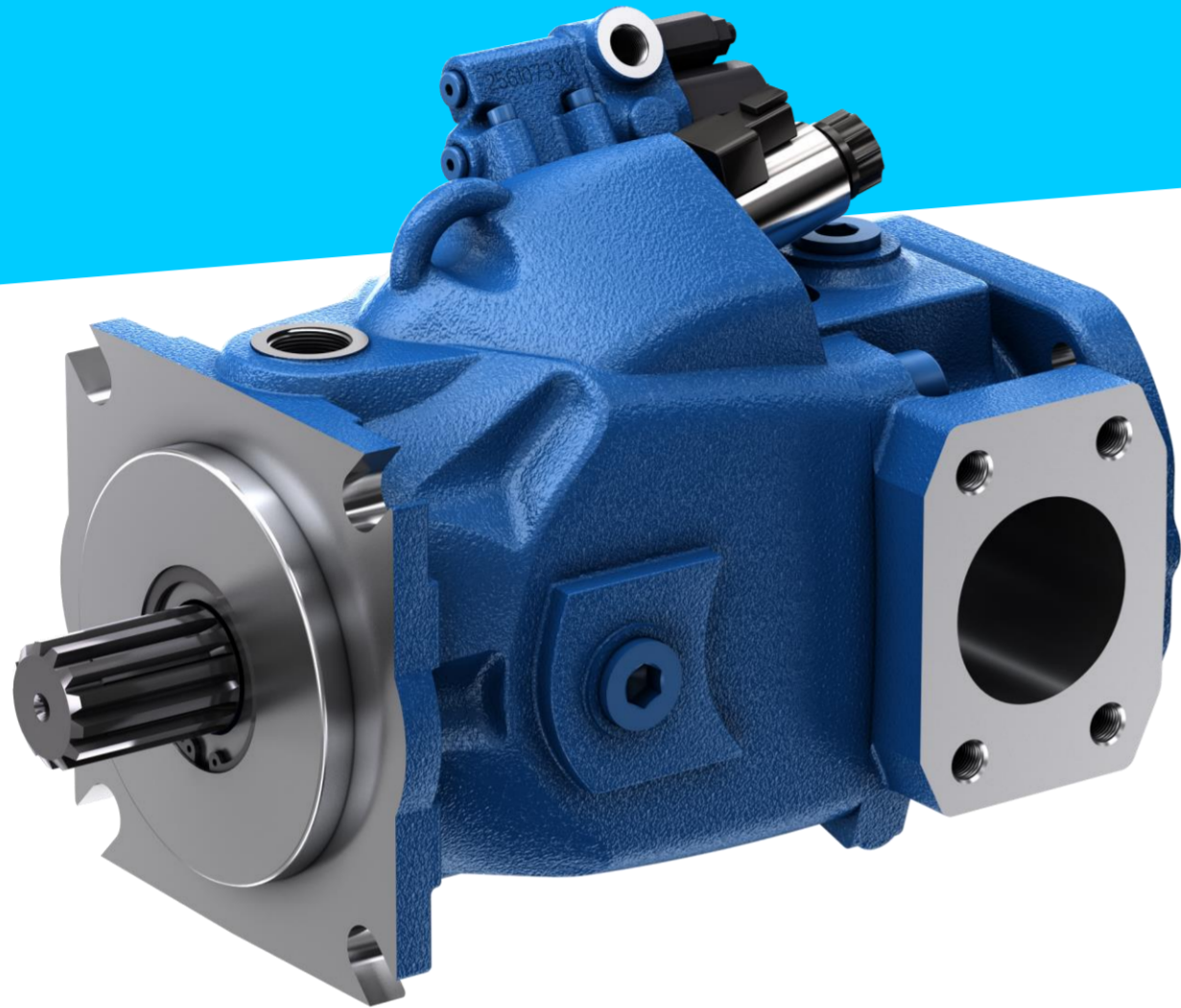


Axial piston variable pump

A10VOH series 60 size 145

High nominal pressure and compact design



Robustness and high reliability in extreme application conditions and compact hydraulic components, combined with high energy efficiency are the most important characteristics that machine operators and vehicle fleet owners demand from manufacturers of construction machinery and their suppliers. To comply with these requirements, the Rexroth axial piston variable pump A10VOH series 60 in size 145 ccm was developed. It is suitable for steering systems, hydrostatic fan drives and implement hydraulics, and specifically developed for applications with a pressure level between the classic limits of medium and high pressure.

CUSTOMER BENEFITS

- High nominal pressure of 320 bar or 350 bar
- Various possible applications
- Compact design and extraordinary power density
- Very high self-priming capacity and high rated speed
- Light-weight

FUNCTION AND BENEFITS

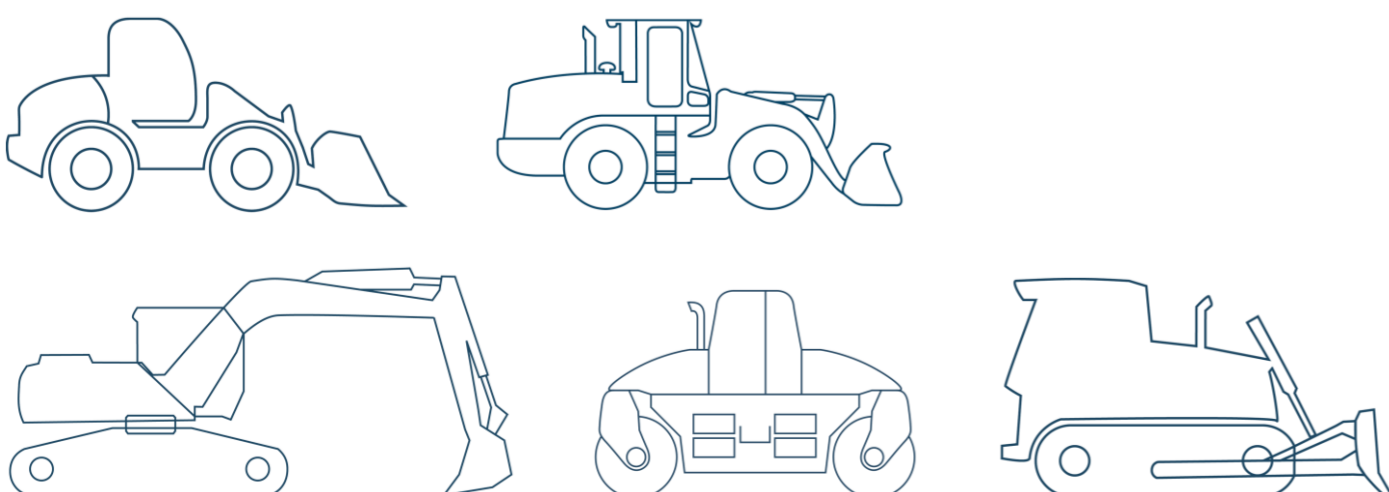
High nominal pressure of 320 bar or 350 bar

The permissible nominal pressure of the Rexroth axial piston variable pump A10VOH series 60 in swashplate design is 320 bar at corner power operation with maximum swivel angle and maximum rotational speed. For reduced swivel angle, the permissible nominal pressure is increased to 350 bar.

Various possible applications

By extending the pressure range, Rexroth A10VOH series 60 can be used in applications which have previously only been covered by heavy duty units. This includes applications with a pressure level above the classic medium pressure of 280 bar and below the typical high pressure of 350/380 bar. Since these applications don't require the full capacity of a heavy duty unit, the new Rexroth axial piston variable pump A10VOH series 60 is an excellent alternative. Furthermore, it has been developed for the application in steering systems, hydrostatic fan drives and implement hydraulics.

APPLICATIONS



Axial piston variable pump A10VOH series 60 size 145
High nominal pressure and compact design

TECHNICAL DATA

Axial piston variable pump A10VOH series 60

Sizes:	145 ccm
Maximum pressure:	320 bar / 350 bar
Rated speed:	2,300 rpm
Weight:	approx. 57 kg
Working connections:	1 ¼ in acc. to SAE J518 (metric fastening thread)
Mounting flanges:	<ul style="list-style-type: none">▪ SAE J744 152-4 / 127-2▪ SAE J617 409-12
Drive shaft:	<ul style="list-style-type: none">▪ 1 ¾ in 13T 8/16DP▪ 1 ½ in 17T 12/24DP▪ 1 ⅜ in 21T 16/32 DP
Control devices:	<ul style="list-style-type: none">▪ DR – pressure controller, hydraulic▪ DRSC – pressure flow controller, hydraulic▪ EP – proportional regulation, electric
Technical data sheet:	92704

Compact design and extraordinary power density

The new Rexroth A10VOH in size 145 ccm is as compact as the Rexroth A10VO series 31, size 100 ccm and will therefore not require more installation space. In combination with the higher pressure range, the new A10VOH in size 145 ccm achieves an excellent power density.

Very high self-priming capacity and high rated speed

A significant advantage of the Rexroth axial piston variable pump A10VOH series 60 is its high self-priming speed. With its permissible rated speed of 2,300 rpm and a maximum displacement of 145 ccm, it is the top of its class. It requires no additional component in form of an impeller. Therefore, the Rexroth A10VOH series 60 requires less installation space than other, similar axial piston units in this market segment.

Light-weight

Due to further design features and innovative manufacturing technologies, the weight of the Rexroth A10VOH series 60 could be significantly reduced. The axial piston variable pump in size 145 ccm offers a weight advantage up to 9 kg compared to other, similar high pressure units and approx. 4 kg compared to a medium pressure unit with similar displacement.