

# RADIAL PISTON PUMP RKP-II

The second generation:  
Advanced. Quiet. Durable.



Moog has manufactured radial piston pumps since 2001 and is one of the leading suppliers of variable displacement piston pumps used in injection molding machines and other industrial applications. The RKP-II's design has been optimized to meet industry demands for long life and lower noise, and continues to offer the same high performance and flexible options our product is known for in the marketplace.

Moog has reduced both primary and secondary noise levels of this new generation design, delivering overall noise optimization for the entire machine. With the RKP-II, all of the machine components are now subject to much less vibration and the overall noise level is 50% lower compared to traditional technology.

The result is one of the quietest pumps in the marketplace with proven performance and a long lifespan.



## ADVANTAGES

- Significantly reduced sound level for noise-critical applications
- Improved durability, low maintenance requirements and long pump life help to significantly reduce maintenance costs and encourage more uptime
- Increased robustness, even under unfavorable operating conditions
- Enlarged suction port for easy set-up and commissioning
- High energy efficiency to save on operating costs
- High modularity in design due to a large number of sizes, control types and mounting flanges, as well as approved versions for variety of operating liquids
- Explosion-proof versions available
- Quick repair service available

## INDUSTRY APPLICATIONS

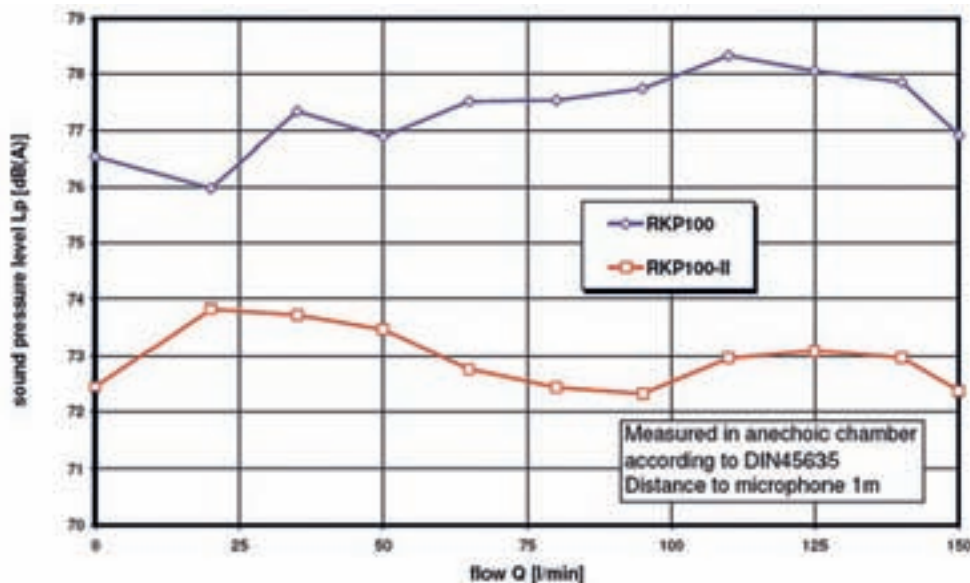
- Tool production
- Plastic and metal-forming technology
- Injection and pressure casting
- Testing and simulation
- Construction and mining
- Rubber processing

# SPECIFICATIONS

The optimized pump housing design now has nine instead of seven pistons (size 63 and 80), which reduces hydraulic flow pulsation and internal pressure forces. Other improvements include more robust suction behavior and redesigned stroke rings.

The RKP-II helps machine and equipment manufacturers in implementing the EU noise emission directive (2003/10/EC).

## AIRBORNE NOISE COMPARISON: RKP – RKP-II

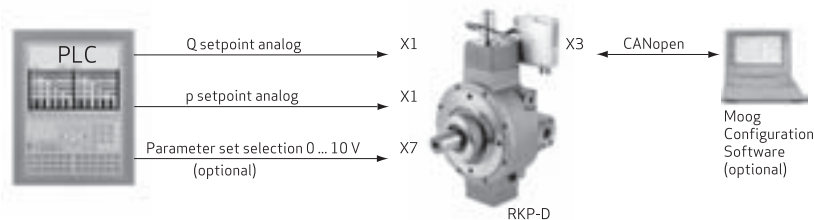


## TWO MODES OF OPERATION ARE AVAILABLE FOR GREATER FLEXIBILITY WITH YOUR MACHINE DESIGN.

### RKP-D OPERATED WITH ANALOG COMMAND SIGNALS

The dynamic behavior of the pump and the operational mode of the pump during a machine cycle can be controlled by a simple setting of analog parameters. The following parameters can be preset at the factory or changed by the operator:

- PID-setting of p-regulator
- PID-settings of pressure control with 16 parameter sets in total
- Selection between 2 pressure sensors
- Selection of hybrid and master-slave mode



### RKP-D OPERATED VIA FIELDBUS

Additionally available in this mode of operation:

- Multiple interfaces – CANopen, EtherCAT
- Integrated power control
- Capabilities in remote maintenance/support
- Full implementation of CIA device profile DS408, due to CANopen standard (including PDO mapping and LSS services)

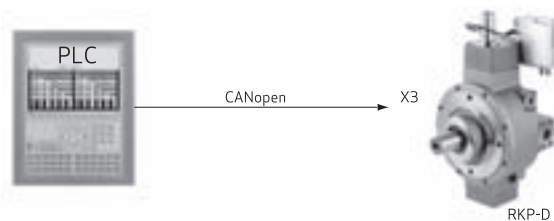
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RKP-II en  
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