

ENGINEERING
TOMORROW

Danfoss

Product Brochure

Vickers® by Danfoss **PVM series open-circuit piston pump**

Quiet - Efficient - Reliable

VICKERS
by Danfoss



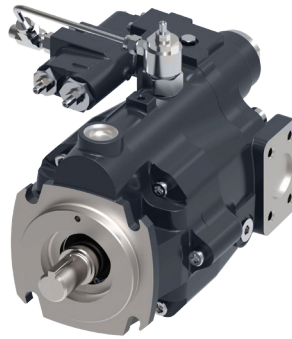
PVM Code B

Pumped up performance and availability

Requirements are changing in industries everywhere. Government regulators are mandating quieter, more energy-efficient machinery, and design engineers are looking for equipment and components that can generate more power from smaller footprints.

These increased expectations require a new generation of hydraulic pumps that are compact, quiet and energy efficient, yet can handle some of your most demanding applications.

With their variable-speed-ready range, 315 bar nominal pressure ratings, quiet operation and power control options, Vickers by Danfoss PVM Code B series open circuit piston pumps can help you design machinery that conforms to a new era of performance demands.



Features

- Continuous pressure up to 315 bar (4,600psi)
- 14 displacements ranging from 10ccm to 141ccm
- High capacity shaft bearings provide industry leading operating life at corner horsepower
- Unique, tapered design reduces vibration

Improved design for enhanced reliability

- High pressure shaft seal as standard
- New control piston and sleeve material
- Enlarged case drain port

Controller options

- Pressure compensator
- Load sense compensator
- Industrial compensator
- Remote pressure control
- Dual displacement control
- Torque control

Certifications

- Marine: LR, CCS, ABS, DNV
- ATEX/UKEX

The quietest pumps in the industry

With the lowest operating noise of any pumps in their class, noisy workplace environments are a thing of the past. Vickers by Danfoss PVM Code B series pumps can help you build quieter functioning machinery.

The reliability you expect from Vickers technology

Reliability and long life are simply expected in your pump requirements. Featuring a robust, noise cancelling three-piece design, high load bearings and other high-quality design considerations, Vickers by Danfoss PVM Code B series pumps are built to function dependably for years.

Standardized design, easier modifications

A standardized, modular design enables easier base pump feature modifications, such as changing a controller or adding another pump. You can adjust the configuration to meet the needs of the application without adjusting the internal pump components.



Save energy, reduce noise and cut costs with **PVM Code B pumps for variable speed drive solutions**

Variable speed drive pump solutions generate power far more efficiently than conventional, fixed-speed pump systems. They allow quieter operation, require less cooling and help extend the life of seals and hydraulic oil. PVM Code B series pumps are ready to work with variable speed drive technology across the full speed range.* Now you can immediately begin transforming your machinery to next-generation standards of energy efficiency and noise.

*Full speed operation performance data, is available for variable speed applications.

Reduced energy cost

The PVM Code B low speed capability allows the pump to operate down to 0 rpm helping to cut energy usage up to 70% as compared to constant RPM system and depending on the machine duty cycle.

Reduced noise

The quiet operation of the PVM Code B pump, combined with the Vickers by Danfoss variable speed drive solution results in remarkable noise reduction, which helps protect operators' hearing and meets more stringent noise regulations.

Reduced pump size

Because the system can now utilize full motor speed range (up to 2800 rpm) rather than running at fixed 1500 rpm or 1800 rpm, it reduces the pump displacement requirement without changing the maximum available oil flow.

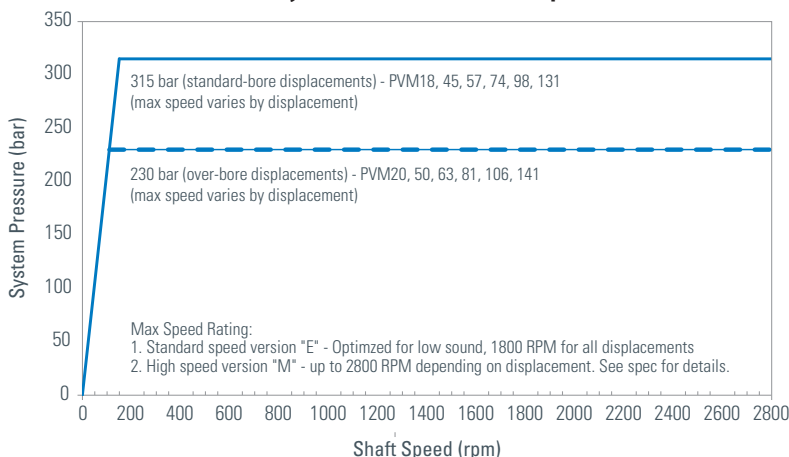
Reduced motor size

Downsizing of the pump opens the same possibility for the motor too. The PVM Code B pump with dual displacement control requires less torque to deliver the same pressure.

Reduced heat generation

With improved energy efficiency comes less heat production, so these systems can often allow downsizing or even elimination of oil coolers.

PVM Code B System Pressure vs. Shaft Speed



Test condition: Mineral oil SAE 10W, oil temperature 49° C (120° F), 1 bar absolute inlet pressure.

Vickers by Danfoss PVM Series open circuit piston pumps have been tested and qualified for improved pressure ratings as shown in the chart above.



Vickers® by Danfoss
Variable Speed Drive Solution

Vickers by Danfoss PVM Series Open circuit piston pumps

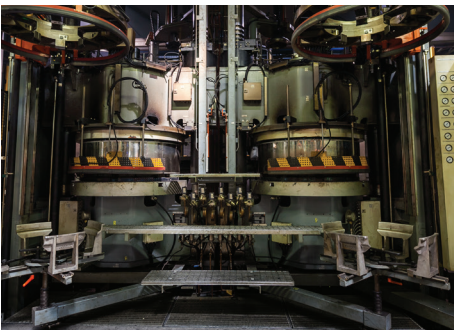
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Engineered for a world of **demanding applications**

Tap the quiet, compact power of Vickers by Danfoss PVM Code B series open circuit piston pumps anywhere you need greater hydraulic power and energy efficiency from a smaller displacement pump.

- Discrete manufacturing: press, machine tools, test and simulation machinery
- Primary metal, food and wood processing
- Energy generation: wind, steam and hydroelectric turbines
- Oil and gas applications
- Marine applications



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