

Vickers® by Danfoss

Introducing the new CVI-CVCS cartridge valve platform
The next generation of slip-in performance

April 2026

We are proud to introduce the next-generation Vickers® by Danfoss CVI-CVCS slip-in cartridge valve platform—engineered to deliver exceptional flow performance, expanded size coverage, and higher-pressure capability for today’s most demanding industrial and mobile applications.

Designed with performance, efficiency, and flexibility in mind, the upgraded CVI-CVCS portfolio sets a new benchmark for high-capacity hydraulic systems.

One platform. Endless possibilities.

With a comprehensive range of directional, pressure, flow, and special-function covers, the CVI-CVCS platform enables OEMs and system designers to standardize on a single, modular slip-in architecture—simplifying system design while maintaining maximum flexibility.

What’s new

The enhanced CVI-CVCS platform brings advancements that translate directly into customer value:

- **Expanded size range** from NG16 to NG160, supporting a wider range of system requirements (New NG50 and NG63 sizes launching in Q3 2026)
- **Up to 20% higher flow performance** on NG16–NG40 sizes
- **Increased pressure rating up to 420 bar** for NG16–NG40
- **350-bar pressure capability** for NG50–NG160
- **15–25% improved energy efficiency**, reducing operating costs
- **Higher power density**, enabling more compact, lighter, and cost-efficient designs
- **Enhanced quality and consistency** through inhouse machining of key components
- **ISO7368 / DIN24342 / GB2877 mounting cavity compatibility** (except NG125 & NG160)
- **Highly competitive pricing** for outstanding performance-to-value ratio

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Built for heavy-duty applications

CVI-CVCS valves are engineered for high-power, high-duty-cycle environments, including Presses • Injection molding • Die casting • Metal forming • Steel mills • Mobile equipment • Marine • Material handling • Agriculture • Oil / gas • Renewable energy systems

Form and function enhancements

- Optimized insert inlet diameter and increased spool stroke for higher flow
- Updated three-slot hole design for improved performance

New design series

The new CVI-CVCS designs automatically supersede previous design series effective June 2026:

- CVCS-**-20 → CVCS-**-30 series
- CVI-**-50 → CVI-**-60 series

Compatibility

- Dimensions compliant with ISO7368 standards
- Installation remains backward compatible with CVCS-**-20 covers and CVI-**-50 inserts
- **Exceptions:** CVCS-10 covers and CVI-40 inserts

[Visit webpage to learn more](#)

[Download slip-in valve cross-reference](#)