

# Vickers® by Danfoss CVI-CVCS Slip-in Cartridge Valves

Upgraded flow performance and pressure ratings across a full size range  
NG16 - NG160



## Expanded **portfolio**, market-leading **performance**, and enhanced **value**

The Vickers® by Danfoss CVI-CVCS platform redefines performance and flexibility for industrial slip-in cartridge valves, delivering up to 20% higher flow and an increased pressure rating of 420 bar (NG16–NG40). This next-generation design significantly boosts power density without requiring any cavity redesign.

Covering sizes from NG16 through NG160, the platform offers a comprehensive range of directional, pressure, flow, and special function covers, allowing OEMs to standardize on a single modular architecture. Furthermore, the CVI-CVCS platform is validated to 10 million endurance cycles and has a calculated MTTFd of 150 years, ensuring this class-leading performance does not compromise long-term durability.

### Features

- Expanded product size range from NG16 - NG160
- Flow performance improvements by 20% on NG16-NG40 - leading the market
- Rated pressure increased from 350 bar to 420 bar on NG16-NG40
- Rated pressure 350 bar on NG80-NG160
- Improved performance enables smaller valves to be used for lighter weight and lower cost
- Increased energy efficiency of 15-25% compared to previous design
- Better quality control with in-house machining of key components
- Mounting cavity complies with ISO7368 / DIN24342 / GB2877 (except NG125 & NG160)

### Flow and pressure specifications

Sizes	Old Flow	New Flow	Max. Operating Pressure
NG16	255 lpm	330 lpm	420 bar (6090 psi)
NG25	590	820	420 bar (6090 psi)
NG32	1250	1540	420 bar (6090 psi)
NG40	1700	2235	420 bar (6090 psi)
NG50	2350	*	350 bar (5000 psi)*
NG63	3700	*	350 bar (5000 psi)*
NG80	NA	4600	350 bar (5000 psi)
NG100	NA	8000	350 bar (5000 psi)
NG125	NA	11500	350 bar (5000 psi)
NG160	NA	18500	350 bar (5000 psi)

\* - New NG50 and NG63 coming 3rd quarter 2026

### Applications

- Presses
- Injection molding machines
- Die-casting machines
- Shears and balers
- Machine tools and metal forming machinery
- Steel mill machinery
- Commercial vehicles
- Marine
- Material handling
- Ag and forestry
- Oil and gas
- Alternative energy

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