SIEMENS

Press

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Siemens' new stainless steel valve expands liquid cooling offering for AI data centers

- **Siemens' new stainless steel valve for AI data centers addresses evolving cooling requirements**
- **The valve meets increasingly stringent wetted material specifications set by leading chip manufacturers and hyperscale data center operators**
- **Integrated control, sensing and monitoring support reliable and scalable liquid cooling infrastructure**
- **The offering complements Siemens' broader liquid cooling portfolio across hydronics, automation, sensing and digital simulations**

The global liquid cooling market is projected to grow at a compound annual growth rate of 22.65% from 2026 to 2031, according to a Mordor Intelligence market report. To meet this demand, Siemens is expanding its liquid cooling portfolio with a new stainless steel version of its 'Intelligent Valve' for direct-to-chip rack loop cooling applications in AI data centers and high-performance computing environments. The innovative stainless steel design addresses increasingly stringent wetted material requirements set by leading chip manufacturers and hyperscale data center operators and offers an alternative to brass and other materials. Building on Siemens' existing portfolio, the new version supports advanced cooling environments where coolant purity and media compatibility are increasingly important.

The valve forms part of Siemens' broader approach to future-ready thermal infrastructure, bringing together physical and digital technologies to support the next generation of data centers. By combining reliable hydronic components with scalable automation and digital simulation, Siemens helps operators improve cooling reliability, energy performance, and cost efficiency, while enabling partners to design, test, and deliver integrated liquid cooling solutions faster.

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“AI is fundamentally changing the thermal requirements of data centers, with increasing compute density making liquid cooling a critical part of the infrastructure. Our role is to help customers manage this transition reliably and at scale. By combining proven hydronic technology with sensing, control and intelligence, this new valve supports cooling infrastructure that can adapt as computing requirements evolve,” said Nawfal Slimati, EVP Buildings Products at Siemens.

Installed within the hydronic cooling circuit, it continuously measures parameters including flow, temperature, and system performance, while actively controlling hydronic conditions. At rack level, the valve maintains stable differential pressure to support consistent coolant flow and protect critical IT equipment. It reduces the risk of pressure peaks that could cause leakage or damage to cold plates during commissioning, operations, and maintenance. It also adapts automatically when servers or complete racks are added, removed, or replaced.

The valve integrates local control loops that can operate independently of the coolant distribution unit controller. Automatic presetting and open communication interfaces enable faster commissioning and flexible integration into broader automation and monitoring systems. This helps operators respond to changing cooling demands while improving visibility into system performance and supporting more automated and self-adapting data centers. It is compatible with water, water ethylene glycol, and water propylene glycol cooling media.

This press release as well as a press picture are available here.

For more information on Siemens’ Intelligent Valves, please see here.

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Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, mobility, and healthcare. The company’s purpose is to create technology to transform the everyday, for everyone. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient, cities more livable, and transportation more sustainable. A leader in

industrial AI, Siemens leverages its deep domain know-how to apply AI – including generative AI – to real-world applications, making AI accessible and impactful for customers across diverse industries. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a leading global medical technology provider pioneering breakthroughs in healthcare. For everyone. Everywhere. Sustainably.
In fiscal 2025, which ended on September 30, 2025, the Siemens Group generated revenue of €78.9 billion and net income of €10.4 billion. As of September 30, 2025, the company employed around 318,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at www.siemens.com.