

Press Release

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Voith Turbo introduces latest innovations in servo valves

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The new DECV servo valve (Direct Electronic Copy Valve) from Voith Turbo represents the latest development of this product, which has already proven itself in countless hydraulic control systems. "It combines excellent operating characteristics and robustness with innovative valves and associated electronic control," **Derain Pillay**, vice-president: power, oil and gas, comments.

Impulse response and accuracy mean that the Voith Turbo DECV is suited to demanding drive tasks. A step response of only seven milliseconds places the DECV firmly in the class of highly dynamic valves, while a hysteresis of under one percent is achieved thanks to the direct actuation.

Pillay explains that the development of the Voith Turbo DECV is focused on applications with high mechanical loads. "The DECV's extraordinary parameters are also confirmed outside laboratory conditions in its daily work environment," he points out. For example, this servo valve has already proven itself in punching/nibbling machines under cyclical shocks of several hundred g ($>2\,000\text{ m/s}^2$).

The Voith Turbo DECV is unaffected by oil impurities, and can be used with oil of cleanliness class 19/17/14 as per ISO 4406. This oil-

quality level can be achieved by means of a common bypass filter system. Comparable servo valves often require higher purity levels, which means using expensive pressure filters. The Voith Turbo DECV, on the other hand, plays a major role in helping to reduce operating costs.

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The programmable control electronics of the Voith Turbo DECV offers all common interfaces, which simplifies integration into existing systems. The HS4-SV2 controller used contains a configurable PLC/CNC, in addition to the control amplifier. Frequently-occurring user cycles are already integrated, and can be customised easily via field buses for specific requirements.

Diagnostic data can be retrieved via Ethernet from anywhere in the world using the PunchMaster software tool accompanying the HS4 controller. This ensures the identification of faulty cycles and quality assurance during production. An integrated sensor measures the pressure directly at the process connection, ensuring extremely accurate and dynamic process monitoring and control. This avoids downtime, which in turn limits the need for costly repairs and service calls.

Voith Turbo L + H is a subsidiary of Voith Turbo.

Voith Turbo, a Group Division of Voith GmbH, is a specialist in intelligent drive solutions and systems. Customers from highly diverse industries such as oil and gas, energy, mining and metal processing, mechanical engineering, ship technology, rail and commercial vehicles rely on advanced technologies from Voith Turbo.

Voith sets standards in the markets of energy, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, Voith today has more

than 39 000 employees, sales of €5.3 billion and locations in more than 50 countries, making it one of the largest family-owned companies in Europe.

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