

# Danfoss Press Release

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## Danfoss Power Solutions introduces counterbalance valve for H1B bent-axis motor

NORDBORG, Denmark – [Danfoss Power Solutions](#), a leading global supplier of mobile and industrial hydraulics as well as electric powertrain systems, has introduced a counterbalance valve for its [H1B bent-axis motor](#), expanding the motor's application to open-circuit systems. Specifically designed for the motor, the counterbalance valve enables original equipment manufacturers to harness the benefits of the variable-speed H1B motor, including compact design and efficiency, in high-power drivetrain and winching applications while preventing overspeed and cavitation.

In comparison to competitive offerings, the counterbalance valve for H1B reduces pressure drop, improving system efficiency, and features integrated pressure relief valves, simplifying system integration and reducing time to market. The valve also offers a broad range of options to optimize performance through damping and overall behavior of the main spool, as well as an optional charge port for external charging or system heat-up.

"Our customers know and love our H1 family of bent-axis motors," said Sünje Marsch, high-power portfolio manager, Hydrostatics, Danfoss Power Solutions. "This new counterbalance valve enables them to bring a motor they've used for years in closed-circuit propel systems to open-circuit systems, with the high power density and precise control they need for such applications."

Danfoss H1B motors with counterbalance valve are ideal for wheeled and crawler excavators, crawler and truck cranes, and drilling and pipe handling applications. The DN32 counterbalance valve, available in two versions, fits H1B motors with displacements ranging from 160 to 250 cubic centimeters. A DN25 valve, to be introduced in 2023, will fit H1B motors with displacements ranging from 80 to 110 cc.

To learn more, visit the [H1B bent-axis motor](#) webpage.

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### About Danfoss

Danfoss engineers solutions that increase machine productivity, reduce emissions, lower energy consumption and enable electrification. Our solutions are used in such areas as refrigeration, air conditioning, heating, power conversion, motor control, industrial machinery, automotive, marine, and off-and on-highway equipment. We also provide solutions for renewable energy, such as solar and wind power, as well as district-energy infrastructure for cities. Our innovative engineering dates back to 1933. Danfoss is family-owned, employing more than 40,000 people, and serving customers in more than 100 countries through a global footprint of 95 factories.

[www.danfoss.com](http://www.danfoss.com)

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