



Sourcing load-holding valves

Increase machine safety and reduce costs with Eaton overcenter valves

Get superior performance plus up to 15% cost savings with Eaton overcenter valves



When it comes to sourcing load-holding valves, one factor outweighs all others: safety. Given the valve's role of holding a load—or personnel—in the air, instability is unacceptable. Machines such as telehandlers and aerial work platforms equipped with a leading supplier's overcenter valves can succumb to instability in boom up-down situations. This puts operators and those working nearby at risk.

Eaton's two-stage overcenter valves can eliminate oscillation, resulting in a safer, more stable machine. They also eliminate valve noise, which increases operator comfort, and reduce pressure drop to improve system efficiency. What's more, Eaton overcenter valves can be up to 15% less expensive than competitive valves.

To compare the performance of Eaton's and a leading competitor's overcenter valves, a series of field and laboratory tests was conducted. The results of this testing demonstrated that Eaton valves outperform competitive valves in both static and dynamic scenarios. In summary:

- Competitive valves were shown to be unstable in certain boom up-down operations, causing the whole machine to oscillate. Eaton valves eliminated this instability. **Eliminating oscillation results in a safer machine**
- Competitive valves squealed during boom retract operations (a spike of at least 20 dBA). Eaton valves did not squeal; noise levels remained consistent. **Eliminating excess noise creates a more comfortable environment for the operator and those working nearby**
- Eaton valves have a lower free-flow pressure drop of 30 psi (2 bar), on average. **Reducing pressure drop results in a more efficient machine**

- **Eaton valves can be up to 15% less expensive than competitive valves**

Designers and owners of machines with long, unstable booms have considered oscillation and valve noise a fact of life, but the correct overcenter valve can eliminate these issues. OEMs can design safer, more efficient machines—and supply chain can reduce costs—by switching to Eaton overcenter valves.

To learn more about Eaton overcenter valves, consult with an engineer or request a quote, contact your Eaton sales manager or fill out the form at Eaton.com/PTSconsult.

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