ecoline



eSense™

counterbalance solution

stability + efficiency





STABILITY + EFFICIENCY from the World Leader in Counterbalance Valve Technology

For over half a century, the world has trusted Sun Hydraulics' cartridge valves for many of its load-holding applications. As a leader of this industry, Sun has a responsibility to develop and enhance load-holding solutions while prioritizing the quality and safety you've come to expect from our brand.

Counterbalance valves are a necessary part of many applications, used to prevent system failure, hose bursts, and over-pressurization. Choosing the wrong counterbalance valve can lead to hassle, grief, and even application failure. Even with the best of intentions, choosing a traditional counterbalance valve can lead to excessive oscillation and energy dissipation.

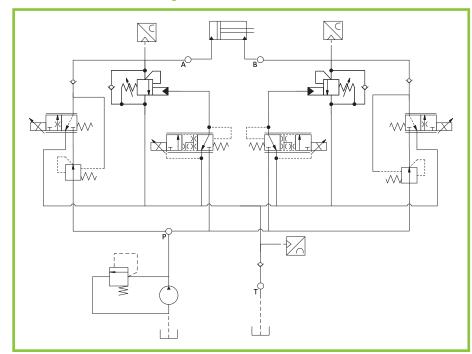
Save energy without sacrificing performance with eSense™

In collaboration with Perdue University, Sun Hydraulics has created the next generation of load-holding technology. Part of the new ecoline™ program, eSense™ is the efficient and innovative solution the world has been waiting for. This powerhouse solution adapts to any load and provides up to 85% of energy-efficient power to your application. Combatting the industry's ongoing challenge for shock absorption, eSense™ provides up to 90% less oscillation. Resilient and compact, this low-leakage solution is optimized for the user's smooth control and safety.

In collaboration with Perdue University, the next generation of



eSense™ example schematic:



Possible Applications

- Hydraulic Press
- Gantry crane
- Planter
- Material handling machine
- Crane
- Scissor lift

eSense™ example results versus standard counterbalance:

Main Boom Extension



85% Energy Savings 15% Less Oscillation Main Boom Retraction
Outer Boom Folded



78% Energy Savings 1% More Oscillation Main Boom Retraction Outer Boom Unfolded



84% Energy Savings 89% Less Oscillation

Sun Hydraulics has created load holding technology.



As a leading manufacturer of high-performance cartridge valves and integrated packages, Sun Hydraulics has gathered a collection of innovative solutions proven to significantly boost and improve energy efficiency, reduce fuel consumption, and ultimately provide cost savings for the end user.

Sun's new ecoline[™] program is comprised of popular products such as the LoadMatch[™] cartridge valve, LoadAdaptive[™], Series 4 PLUS cartridges, T-18AU & T-19 AU cavities, Sun Cavity & QuickDesign[™], Energen and the latest ecofriendly addition, the eSense[™] solution. Contact us to learn more about ecoline[™] and how these products can optimize the efficiency of your application.



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