



HILITE[®]
INTERNATIONAL

The green way.

Join the Hilite road to the future

StepCom®: The Hilite VCR System The future of the combustion engine

Downsizing of internal combustion engines is continuing to be a major development goal, resulting in increasing specific power. The Hilite StepCom® VCR System is providing a significant contribution to master the challenges of thermodynamic optimization and thermal loads on engine components:

- › 4 compression ratios spread*, 2 discrete compression ratios adjustable
- › 5 % gain on fuel economy*
- › 15 % gain on engine output* (stoichiometric)

StepCom® is an enabler to meet future emission legislations, has a high synergy with hybrid powertrains and is easy to integrate in existing engine platforms.



Maximum efficiency for combustion engines. Optimal solution for any application.

* application dependent

CO₂ reduced


Electronic Expansion Valves Hilite valve solutions for thermal management

Efficient thermal management is a key enabler for battery electric vehicle technology. Active battery cooling using electronic expansions valves (EXV) is the foundation for battery performance from fast charging, to long lifetime.

We are applying our long-term experience in automotive precision valve technology to develop perfectly fitting EXV solutions:

- > EXV with e.g. 14kW capacity, LIN bus interface for precise digital control, low leakage and an MOPD of 3.5 MPa
- > Defined normally closed behavior based on linear magnet technology
- > Customized solutions matching for BEV, PHEV or HVAC projects

With precision valve technology, we are shaping the future of thermal management – not only on EXV but also on further valves and module solutions for electrified vehicles.



Thermal
management on
a higher level.



Together with our customers, we engineer the best solutions to optimize fuel efficiency and emissions. We develop innovative products from VCR to thermal management, tailored to solve the challenges of the future.

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