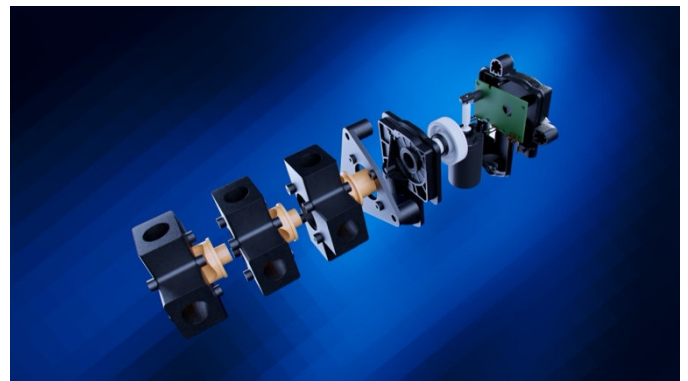


MOVING SMART

Thermal Management Actuator

We keep a cool head: With the increasing complexity of automotive technology, the importance of efficient thermal management actuator is also growing. Optimum control of the coolant circuit through central and, above all, precise control of the valves ensures that the engine runs smoothly. For every type of vehicle.



SMART VALVE CONTROL

Less does more

The compact and, above all, versatile valve from KÜSTER can be used almost anywhere in the vehicle. The biggest advantage: whereas in the past each valve had to be controlled by its own actuator, the modular design of our system means that almost any number of valves can be connected to form a block. These are controlled via a single actuator. Intelligent, individual and, above all, space-saving.

The facts:

- ✓ Compact construction
- ✓ Modular structure
- ✓ Central control of several valves
- ✓ Efficient use of stored energy
- ✓ Optimal thermal management

GOOD ISN'T GOOD IF BETTER IS POSSIBLE.

Modular linking

Semi-trailer trucks or industrial trucks, tractors or buses: the design of vehicles and their drives could not be more different, especially in the commercial vehicle sector. It is therefore important to offer modular and, above all, flexible solutions in the field of valve control that can be installed in any vehicle to save space.

This means that our individual valves can be linked in a modular fashion and precisely controlled independently of each other via a single actuator. Individual valve positions are just as possible as adding and decoupling individual valves. Even locally separated valves can be controlled via one actuator.

PRECISE WORKING

Actuator and valves

To ensure that the system functions smoothly, the actuator has an internal zero calibration and can therefore precisely approach different valve positions. The actuator can also be rotated through 360°. The valves can represent different valve states. If several valves are connected to one another, they can be activated or deactivated using a coupling.

- ✓ 360° rotation of the actuator
- ✓ Internal zero-calibration
- ✓ Central control of several coupled valves
- ✓ Precise adjustment using smart technology
- ✓ Modular design of the valves and valve blocks
- ✓ Interlinking and merging of several individual valves is possible
- ✓ Efficient use of stored energy
- ✓ Increasing the range (especially for BEVs)
- ✓ Simplified thermal management
- ✓ Space-saving design for simple integration

SAVING ENERGY, INCREASING RANGE

Extending the radius

In battery electric vehicles (BEV), which use a rechargeable traction battery as their sole energy source, intelligent valve control offers a further advantage: as less stored energy is lost and the energy flows within the engine can be used more efficiently, consumption is reduced and the range of the electric car is noticeably increased.

Curious? Our experts are happy to advise you!