Keystone™ CompoSeal

Improving your sustainability through innovative valve design

Innovative new composite valve offers cleaner, greener performance

Emerson's vision is to provide products and services that deliver **zero harm** to people and the environment during manufacture, recycle or disposal. Our goal is to conserve energy, water and raw materials, recycle and reduce waste.

The new Keystone CompoSeal composite valve is designed to deliver on this vision. Thanks to a combination of innovative engineering and advanced composite materials, the Keystone CompoSeal valve enables you to significantly reduce your carbon footprint without compromising performance.

CompoSeal valves provide similar performance to traditional products, with the added benefit of a 70% carbon footprint reduction.

Carbon footprint reduction

Keystone CompoSeal valves can cut your carbon footprint in the following ways:

- *Significant weight savings*: CompoSeal valves are 70% lighter than conventional metal valves, reducing transportation costs and associated carbon emissions during production as well as during service life when used in the transportation sector.
- *Raw material production*: The production of the virgin polymers used in CompoSeal valves generates only a fraction of the CO_2 that is emitted in making steel. The cleaner raw material production process reduces carbon emissions by 70% per valve.
- *Energy efficient valve production process*: The injection moulding technology Emerson uses to liquefy and shape the polymer consumes up to 65% less energy per valve than the foundry casting techniques used to produce conventional metal valves. Iron valves also require additional machining, while CompoSeal units do not, further reducing their carbon footprint.

Keystone CompoSeal
Working towards zero harm for people and the enviroment

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Individually, each of these benefits is compelling. Combined, they reduce the CO_2 emission profile of each CompoSeal valve by up to 70% compared to resilient seated ductile iron butterfly valves (calculations based on a production volume of 10,000 valves).

A superior sustainability profile

There is more to CompoSeal's superior sustainability profile than just a significantly lower carbon footprint. These innovative, high-performance composite valves also deliver a host of other environmental and safety benefits.

Paint and solvent reduction

CompoSeal composite valves are inherently highly chemical-resistant. Unlike conventional valves that must be painted for protection, CompoSeal valves require no solvents or chemical paint systems.

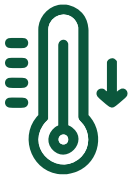
Halogen-free

The composite materials used in CompoSeal valves are certified Halogen-free in accordance with the IPC-TM-650-2.3.41 or JPCA ES01 or IEC61249-2-21. This is an important fire safety feature. The material is also fire retardant in compliance with the UL 94 rate H-B standard.

Recyclable

The innovative engineering composite material found in CompoSeal valves is fully recyclable. Today, recycled composites are found in a growing number of applications, such as road pillars and garden construction materials where they are an excellent and extremely durable alternative to tropical hard woods.

Minimum heat loss



A combination of low-thermal conductivity and an internal thermal barrier reduces heat loss in CompoSeal composite valves to a minimum.

CompoSeal - the cleaner, more sustainable choice

With CompoSeal, Emerson is taking another step towards a cleaner and more sustainable industry.

CompoSeal composite valves are safe and certified to stringent food and drinking water standards, such as FDA, WRAS, KIWA, ACS, Belgaqua and NSF 61.

To learn more, please visit: Keystone CompoSeal Product Page

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