



APPLICATION REPORT BUTADIENE APPLICATIONS

Canned Motor Pumps in 1.3-Butadiene Applications

1.3-Butadiene is a highly flammable, highly volatile, and toxic raw material used primarily in the production of synthetic rubber, latex, and engineering polymers. Due to its physical properties – particularly its low boiling point and high vapor pressure – the pumping of butadiene places high demands on the safety and tightness of the pump technology used.

Advantages

Canned motor pumps offer a particularly reliable solution in this case. They operate completely **hermetically sealed**, as they do not require dynamic seals. This virtually eliminates the risk of leaks and emissions – a decisive advantage when pumping hazardous substances such as butadiene. They are also **low-maintenance**, low-vibration, and designed for continuous operation.

The **HERMETIC V-Line** is a standardized series specifically developed for applications involving hazardous and volatile media. It combines the advantages of canned motor technology with a **modular, cost-effective design**. The pumps are **ATEX-certified**, feature a **compact design**, and are available in various materials for optimal chemical resistance.

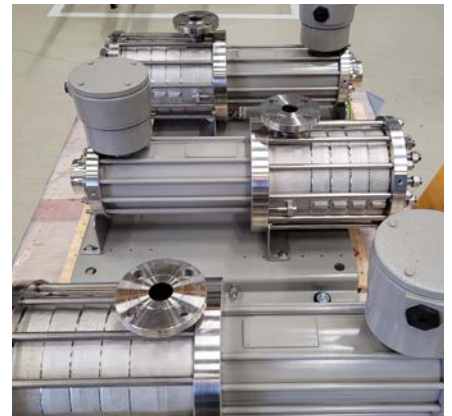
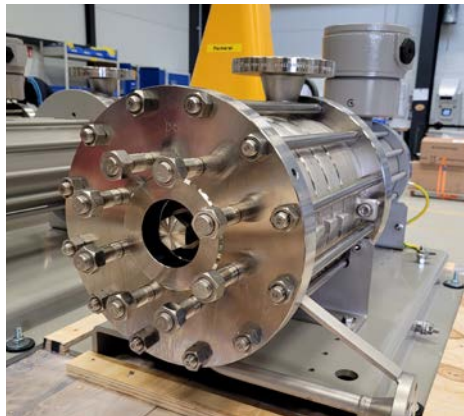
Another advantage of the V-Line is the **short delivery time** thanks to standardized components and easy **integration** into existing systems. In 1.3-Butadiene applications, it ensures safe, emission-free operation while maintaining high system availability.



Sealless Technology **Unlimited**

Sustainable production

By using the HERMETIC V-Line, both legal environmental regulations and operational requirements can be optimally met – a decisive contribution to safe and sustainable production in the chemical industry.



Requirement

The requirements for canned motor pumps for pumping 1.3-Butadiene allow the use of standardized canned motor pumps such as the V-Line.

Industry:	Chemicals
Application:	Polymer production
Medium:	1.3-Butadiene
Flow rate:	5 m ³ /h
Head:	150 m
Operating temperature:	–30 °C
Critical:	Toxic liquid, explosion protection
Pump:	CAM 32/5
Motor:	N54XL-2
Pump type:	Multi-stage canned motor pump
Special feature:	Standard V-Line design

[More information >>](#)



HERMETIC-Pumpen GmbH

HERMETIC-Pumpen GmbH is a world-wide leading developer and manufacturer of hermetic pumping technologies. As a canned motor pump specialist, HERMETIC has gained a reputation world-wide for safe and durable pumps – for the most extreme areas of application and most hazardous pumped media. HERMETIC canned motor pumps are suitable for fluid temperatures ranging from $-160\text{ }^{\circ}\text{C}$ up to $+480\text{ }^{\circ}\text{C}$ and system pressures up to 120 MPa. With power outputs from 1 kW to 690 kW, HERMETIC offers canned motor pumps with the largest capacities on the market.

HERMETIC employs around 400 people at its headquarters in Germany and has subsidiaries in China and the USA. In conjunction with a world-wide service and contract partner network, the company offers reliable customer service over the entire life cycle of a system.

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