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ГОМОГЕНИЗАТОРЫ NANOVALVE Технические характеристики

NanoVALVE™ (NVHC)

The patented NanoVALVE™ technology (EP 0810025B1, IT 1.282.765, US 5.887.971) offers a revolutionary design and profile: optimizing the gap between the fixed and moving elements, together with the “sharp edge” profile, allow the energy generated by the fluid dynamics phenomena to be released efficiently onto the particles.

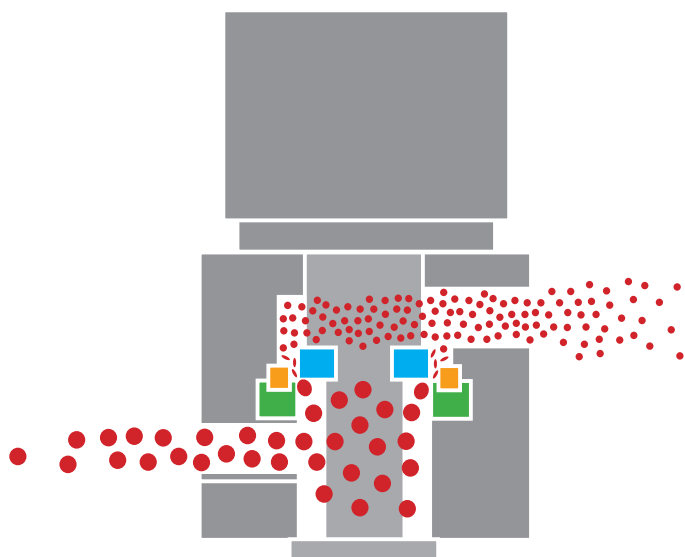
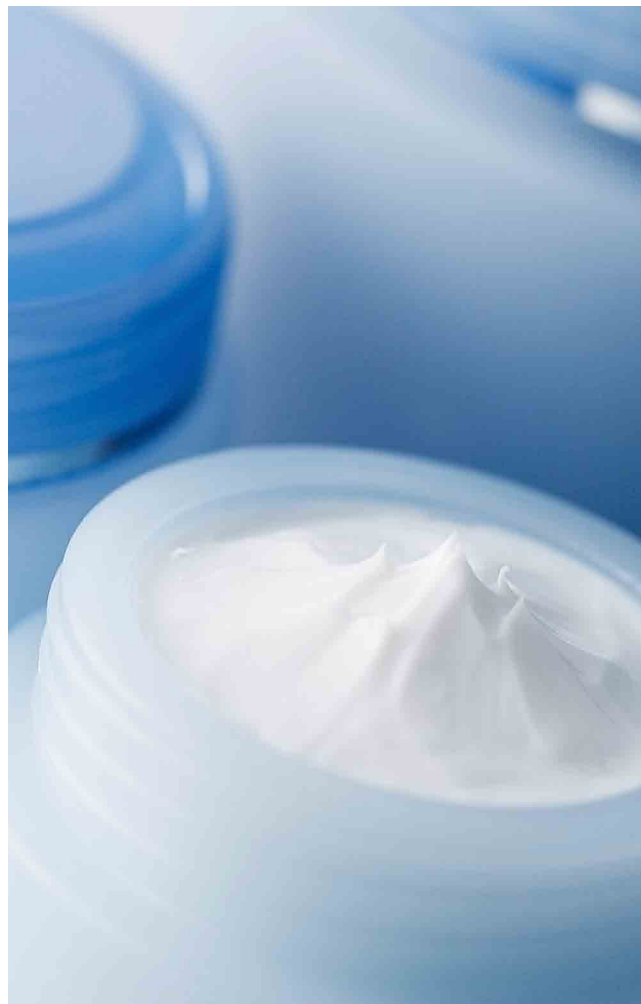
Every NanoVALVE™ is available in the latest 3G version, a configuration in which the impact head guide system has been perfected, resulting in improved pressure regulation and reduced valve sensitivity to the high operating temperatures.

Up to

250 bar

From

5,000 up to 80,000 l/h



NanoVALVE™HP (NVHP)

NanoVALVE™HP is ideal for processing antibiotics, additives and any production process up to 700 bar. Its design is covered by an international patent for fibrous product applications (PCI/IB 2014/058613). The special profile has been designed following the same high-efficiency principle used in the NanoVALVE™ 3G, which reduces energy and operating consumption while improving the homogenization conditions, even in the nutraceutical, probiotic and biotechnology markets. NanoVALVE™HP is the perfect solution for both latest-generation homogenizers and machines that are already in operation; it can be installed as a retrofit kit in sanitary and aseptic process systems.

Applications

NanoVALVE™HP can be used in various production processes, from food, including foodstuffs containing flavourings, probiotics and emulsions, to the chemical, pharmaceutical, cosmetics and biotechnology industries. NanoVALVE™HP is particularly suitable for applications that require high particle dispersion down to micron or nano level, such as:

- Vaccine preparation
- Parental nutrition
- Nanocellulose (NFC)
- Products containing additives, flavourings and stabilizers.

NanoVALVE™HP valves can be installed on Ariete models from the Ariete Homogenizer 3090 to the Ariete Homogenizer 5400 for operating pressures from 250 to 700 bar and for production capacities from 5,000 to 32,000 l/h.

Specifically designed for medium process pressures and to improve efficiency, the NanoVALVE™HP optimizes the degree of homogenization at lower pressures compared to traditional valves, reducing energy and spare parts consumption, and consequently reducing environmental impact.

The Revolutionary Features

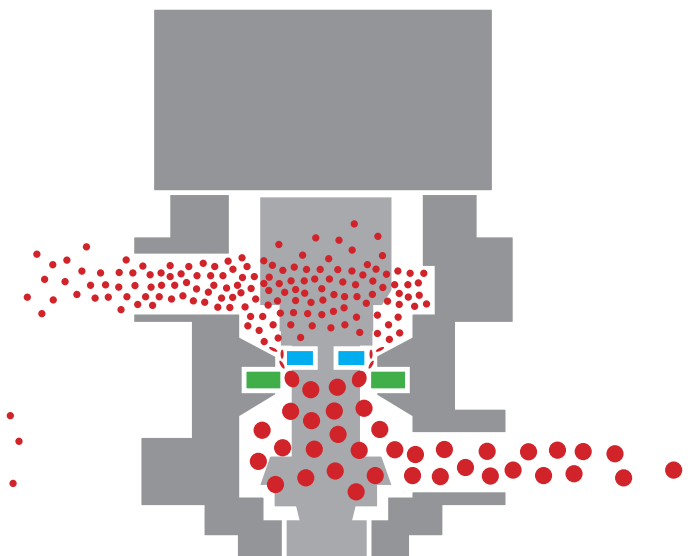
- Flexibility: different valve profiles and dimensions depending on the capacity
- Reversibility: the homogenizing valve is composed of two parts, both of which are reversible
- Ceramic version available
- Longer valve parts lifetime
- Aseptic version available
- Easy assembly and maintenance
- 3-A compliant
- Can be adapted to all homogenizer brands as a retrofit kit

Up to

700 bar

From

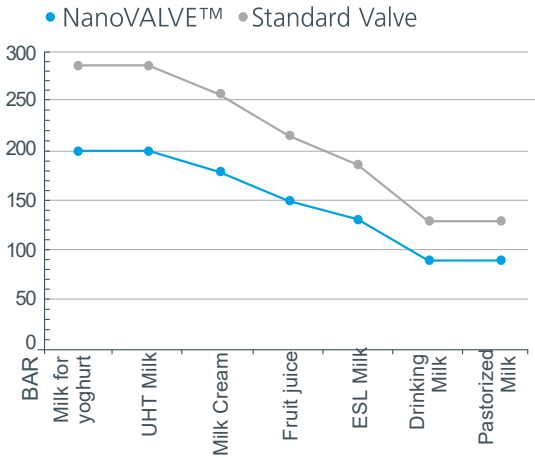
5,000 up to 32,000 l/h



Energy reduction

The effectiveness of the energy used can be maximized thanks to the advanced technology, allowing particle reduction with 30% less homogenizing pressure for the same performance on the product, which reduces both mechanical wear and energy consumption.

Tests on yoghurt have shown that, using the same pressure, it is possible to obtain 20% greater product viscosity, making it smooth and creamy with better flavour and colour, thanks also to a reduction in additive and protein quantities. NanoVALVE™ is suitable for pressures up to 250 bar, depending on the required capacity.



Materials

With the aim of providing specific solutions for any product type, GEA offers a variety of materials suitable for high-pressure processing. Based on comparative and lifetime tests, tungsten carbide has been chosen as the standard material, while two types of ceramic (Silicon Nitride and Zirconium Oxide) are recommended for abrasive products.

In fact, the homogenizing valve lifetime is greatly influenced by the product being processed and the operating pressure.

Std valve and Re+VALVE	Are available both in tungsten carbide and Ceramic (Silicon Nitride and Zirconium Oxide)
NanoVALVE™ (NVHC)	Tungsten Carbide
NanoVALVE™ H P (NVHP)	Available in Tungsten Carbide and in Ceramic



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