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ГОМОГЕНИЗАТОРЫ NISOX-VALVE Технические характеристики



Improving product micronization and uniformity

The new NiSoX-Valve device introduces a revolutionary perspective in the field of high pressure homogenization technology – a complete change in the way that homogenizing valves are conceived and understood.

As of today, the main objective of homogenizing valves was to minimize the distance between the passage head and the impact head at every opportunity. GEA NiSoX-Valve heralds a new era in the homogenization technology thanks to its new configuration, which subordinates the flow-dynamic effects generated inside the device.

Laboratory trials with the NiSoX-Valve have shown how the liquid within the valve is channeled in such a way as to optimize the energy employed in the process, and consequently achieve an improvement in the micronization effect obtainable per unit of pressure applied.

The highly effective action of the NiSoX-Valve gives optimum results, with regard both to the average size of the particles analyzed, and to the standard deviation achieved.

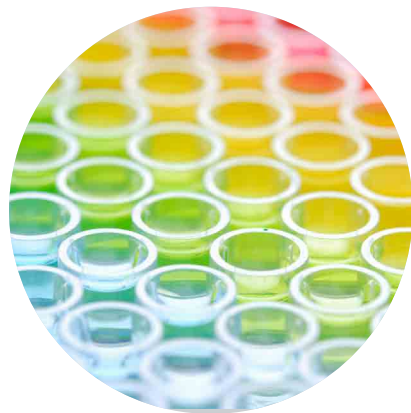
The new NiSoX-Valve geometry facilitates a better distribution of energy towards the middle of the valve, promoting a more effective micronization of the particles, and above all a significantly enhanced uniformity of the product.

Key advantages

- Smaller particle size
- Better particles distribution
- Lower energy consumption
- Low temperature increase
- Longer life span
- Reversible components
- Scalability consistency
- Easy and quick maintenance

Improvement in output

- Enhanced product quality
- Improved physical properties
- Improved transparency
- Improved glossy aspect and colours



Advanced design for energy optimization

The design of the new NiSoX-Valve derives from the adoption of a fresh approach to valves of this type. It takes into account four combined factors that are mainly important to optimize the energy generated inside the system:

1. Elongation stretching
2. continuous acceleration along the passage
3. radial impact towards the center of the valve
4. Tuned cloud cavitation phenomenon

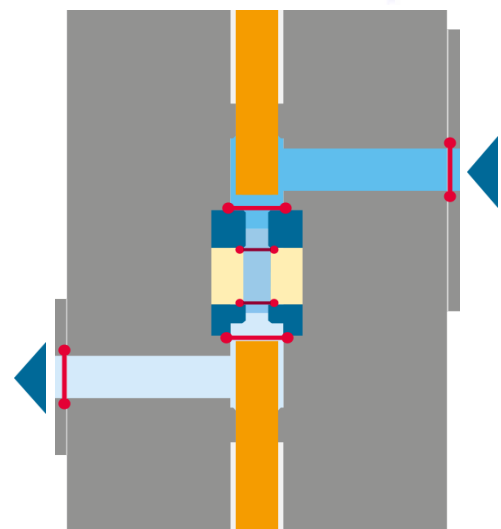
The effect of these factors on the flow is made possible by virtue of a new mechanical configuration, that allows the optimization of the energy.

The NiSoX-Valve is made up of only few active components: a deflector, a radial collider and a CCMS (Cavitation Cloud Modulating System).

New product flow

Entering the NiSoX-Valve, the product is brought into contact immediately with a deflector and forced to flow through a narrow gap, which has the effect of elongating the particles, before converging to the center of the valve. Passing through the deflector, the liquid accelerates to a velocity higher than that obtainable with conventional homogenizing valves, whereupon the radial impact occurring in the radial collider generates a powerful cavitation effect, micronizing the particles more effectively and achieving an improvement in the physical properties of products.

Thereafter, the product flows into the CCMS, which performs a mechanical tuning function in combination with the radial collider and has a stabilizing effect on the product as it passes through.



NiSoX-Valve process scheme

High reliability and performance

GEA NiSoX-Valve is designed as a stand-alone system, in other words a single and indivisible device capable of reducing particle sizes to a degree that ensures better homogenization than ever before. The NiSoX-Valve has fewer component parts than those of a conventional homogenizing unit, which means that maintenance operations are made both simpler and quicker. GEA can ensure the reliability of the NiSoX-Valve to any of your product needs.

Main features

- FDA approved
- Available in sanitary execution
- Aseptic barrier option
- Pharma Skid configurations
- 3-A, Electropolished version
- CIP/SIP able
- Easy working operation
- Pneumatic adjusting
- Local/Manual – Remote/Automatic pneumatic regulation
- Available as retrofit for existing machines
- Available configuration with pressure gauge or transducer

The NiSoX-Valve is available for the complete GEA homogenizers range, from laboratory unit to industrial scale; both tungsten carbide and ceramic versions are available.



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