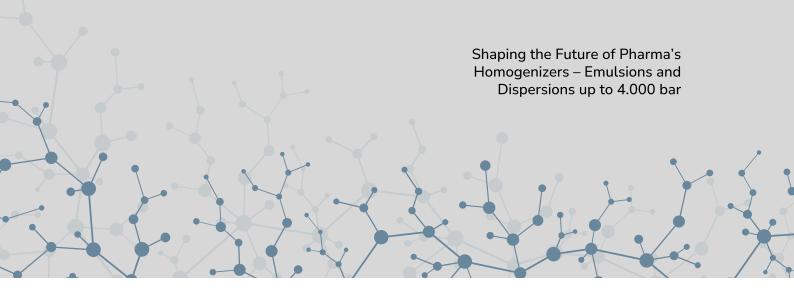




PHARMA TECHNOLOGY



ADVANCED HOMOGENIZING TECHNOLOGY IN PHARMA APPLICATIONS

Interpump Process Technology High-Pressure Homogenizers – up to 4.000 bar – are the ideal solution for developing and producing stable emulsions and dispersions in pharmaceutical and biotech applications.

Through Interpump Homogenizer you can get a faster and more efficient way to reach the nanodispersion and production targets.



PLUS

- High volumetrical efficiency
- Innovative design of the liquid end for minimized sterilization time and to make more effective the CIP
- High reliability at full pressure
- Very low noise level
- Friendly maintenance of liquid end
- Validated for nano dispersion and emulsion
- Proven for high viscous products

GREEN SERIES | STAR LINE - Flow rate @ Pressure

MODEL HA/PA53

10.000 l/h @ 1.000 bar

9.000 l/h @ 1.200 bar

6.000 l/h @ 1.500 bar



ATOMO 3.0 - Flow rate @ Pressure

- User friendly

PLUS

- Triplex homogenizer
- Reliable scale up from pilot to production line
- Very low noise level
- Innovative design of the liquid end for minimized sterilization time and to make more effective the CIP

MODEL ATOMO 3.0 100 l/h @ 1.000 bar 100 l/h @ 1.200 bar 30 l/h @ 1.500 bar





PLUS

- Minimum volume of 10 ml
- Tabletop homogenizer
- Suitable for abrasive products
- Reliable lab testing
- Very low noise level

QUARK - Flow rate @ Pressure

MODEL QUARK

3 l/h @ 2.000 bar

Increasing the homogenizing pressure plays a key role in enhancing cell disruption and emulsion quality in pharmaceutical processes.

By introducing the patented UP-Valve, the pressure can be raised up to 4.000 bar, optimizing process efficiency and reducing production time.



PLUS

- Particle Size Reduction: Nano or micro scale for better stability
- Uniform Dispersion: Homogeneous mixtures, no agglomerates
- Improved Texture: Smooth, consistent product
- Enhanced Stability: Prevents phase separation and sedimentation
- Higher Bioavailability: Faster and more efficient absorption
- Controlled Release: Enables advanced drug delivery systems
- Chemical Stability: Longer shelf-life with antioxidants and buffers
- Cell Disruption: Efficient extraction of proteins, enzymes, and metabolites
- Reduced Additives: Less need for synthetic stabilizers
- Scalable & Reproducible: From lab to industrial production

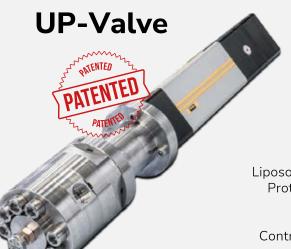
HBI SERIES - Flow rate @ Pressure

MODEL HBI

up to 2.000 l/h @ 4.000 bar

INTERPUMP DIVISION FOR PHARMA APPLICATION

The UP-Valve (Ultra Pressure Homogenizing Valve) delivers exceptional performance in pharmaceutical applications such as cell disruption and emulsions. Designed with high mechanical and wear-resistant metal alloys, it operates up to 4.000 bar, ensuring superior efficiency, optimized processes, and reduced production time.



Typical Applications:

- Antibiotics -
 - Vaccines -
 - Syrups -
- Cell disruption -
 - Vitamins -
- Injectable fine emulsions -
 - Intravenous emulsions -
- Liposomal drug delivery systems -
 - Protein and enzyme extraction -
 - Ointments and creams -
 - API micronization -
 - Controlled release formulations -

"Evolution Green: Reduction of water consumption, oil consumption and carbon footprint in the manufacture and usage of the equipment"



PHARMA TECHNOLOGY

Contact Us

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