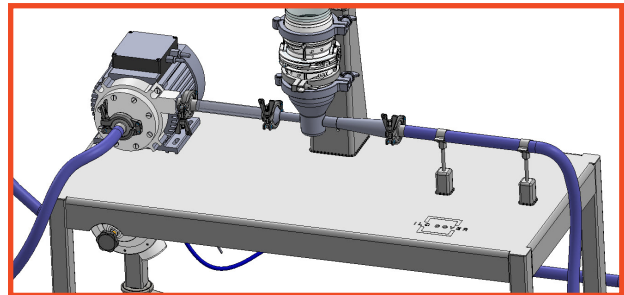





# EZ JetFlow™

Prevent Cross-Contamination.  
Ensure High-Quality Supply.

ILC Dover's single-use powder mixer ensures product integrity, reduces downtime associated with cleaning and validation, and enhances overall efficiency. With a sterile, disposable system, EZ JetFlow™ accelerates time-to-market, making it an invaluable asset for any pharmaceutical production line.

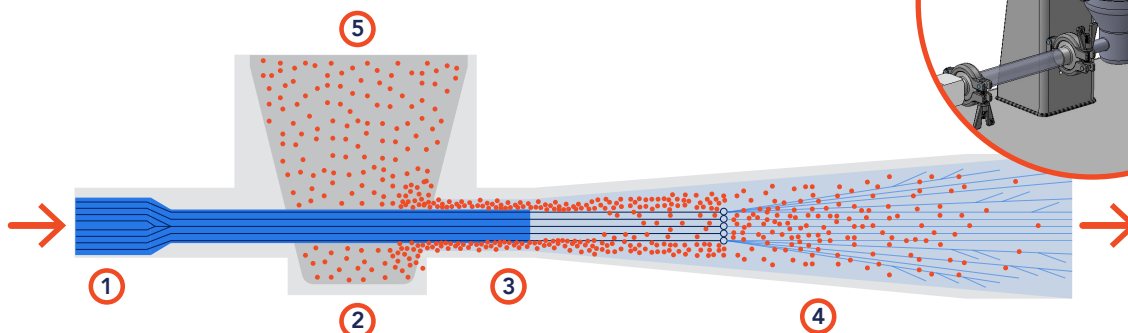


-  Scale production while maintaining exceptional sterility and quality standards
-  Deliver diverse, high-quality products efficiently under strict regulations
-  Accelerate drug development and meet the rising demand for complex therapies

## How It Works

ILC Dover's JetMixer™ system leverages the Venturi effect, meaning fluid pressure drops as it accelerates through a narrowed passage. **EZ JetFlow™** is ILC Dover's single-use JetMixer™, which facilitates the homogeneous, lump-free mixing of various products, from salts to thickeners. Below is a schematic illustration of EZ JetFlow™, which is composed of five different zones:

1. Inlet pipe with a convergent nozzle to accelerate liquid
2. Injection chamber to direct the powder toward the jet
3. Space around the jet where powder is sucked into the jet
4. Zone where the jet expands, creating high turbulence for uniform mixing
5. Mechanism for feeding powder into the system by gravity



# EZ JetFlow™ Technical Specifications



## Material

- Single-use Injector: Marlex 9018 High-Density Polyethylene (HDPE)
- Metallic Frame: AISI 304
- Seals: PTFE
- Hoses: Silicone; Polysulfone End Connection Tri-Clamp
- Avax Valve: Body: PC + ABS / Seal: TPE
- EZ BioPac®: ArmorFlex 114
- Pump Motor: ETFE-Coated Aluminum
- Single-Use Pump Head: Polypropylene

## Certificates Supplied with Each EZ JetFlow™

- FDA
- USP class VI
- BSE / TSE
- ATEX 3GD for the Pump & Pressure Reducer
- IECEx for the Pump: IEC 60079-0 (2017), IEC 60079-7 (2017), IEC 60079-31 (2022), ISO 80079-36 (2016), ISO 80079-37 (2016)
- 3.1 Certificate

## ATEX Execution

- ATEX 3GD

## Surface Finish

- Product Contact Part:  $R_a \leq 0.8 \mu\text{m}$
- Non-Product Contact Part:  $R_a \leq 1.6 \mu\text{m}$

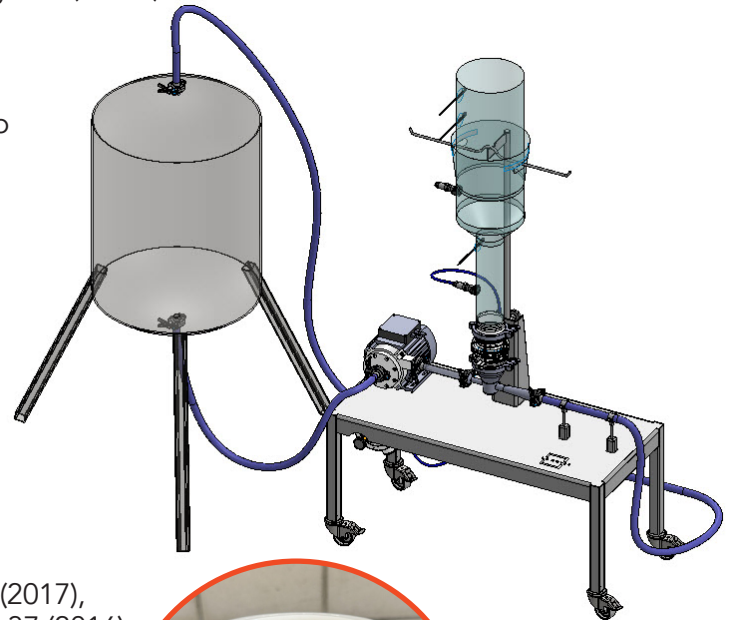
## Technical Data

- Approx Liquid Flow Rate: 5.00 m<sup>3</sup>/h
- Approx Powder Flow Rate\*: 0.40 m<sup>3</sup>/h to 0.75 m<sup>3</sup>/h
- Pump Motor (IP67) Operating at Ambient Temperature: 0 to 40°C
  - Single-Phase 200-240 VAC 50/60 Hz
  - Three-Phase 200-240 VAC 50/60 Hz

\*These values are only indicative (NaCl and Lactose) and must be adjusted according to the powder used. Injection trials can be carried out at our factory to define these parameters.

## Configuration Options

- Two single-use pressure indicators at the inlet and outlet to monitor and set the correct pump speed
- Portable lifting column to facilitate the installation of the EZ BioPac® on the JetMixer™
- Metallic frame made of AISI 316L
- Other custom requirements can be discussed directly with ILC Dover



**Contact ILC Dover  
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