

Jet Mixer**Product Coding**
P6XXXXXXXX**Introduction**

Jet mixer is a simple yet highly effective device used to mix and circulate liquids in tanks, vessels, and basins. Unlike mechanical agitators, jet mixers have no moving parts inside the liquid; instead, they rely on the energy of a pressurized motive liquid stream supplied by a pump. As the high-velocity jet exits the nozzle, it creates a partial vacuum that entrains surrounding liquid, mixing it with the motive flow and accelerating the combined stream. This process generates a strong, three dimensional circulation pattern within the tank, ensuring uniform mixing of contents. Jet mixers are widely applied in industries such as water treatment, chemical processing, and storage tank management due to their reliability, low maintenance requirements, and ability to handle a wide range of liquid types, provided the viscosity is suitable for centrifugal pumping.

Features

- No moving parts
- Long service time
- Low foaming risk
- Cost effective
- Scalable design
- Simple and reliable design
- Handle a wide range of liquids

Installation Notes

The jet mixer should be installed at the lowest point of the tank to ensure effective mixing even at low liquid levels.

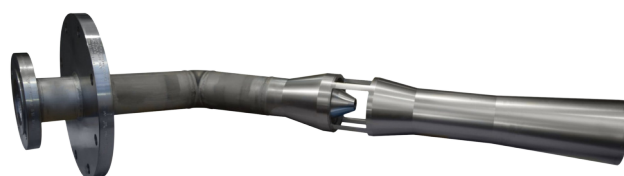
The distance between the liquid surface and the jet outlet should be at least 1-2 m to avoid foaming.

To determine the number of jet mixers, the following factors must be considered:

- Shape and dimensions of the tank or basin
- Type and physical properties of the liquid

Applications

- **Storage tanks:** To keep liquids homogeneous and prevent sedimentation.
- **Neutralization basins:** For mixing chemicals and ensuring complete reaction.
- **Chemical processing:** Blending raw materials, additives, or reagents.
- **Petrochemical and oil industry:** Homogenizing fuels, oils, or other liquid products.
- **Food and pharmaceutical industries:** Gentle mixing of liquids without mechanical agitators.



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