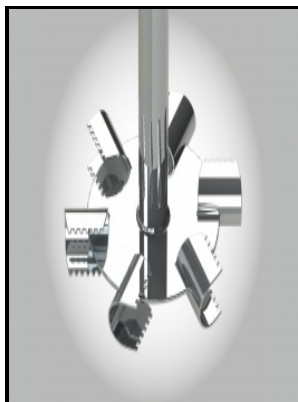


# Self-aspirating agitator for gas/liquid contacting.

University of Birmingham - GASJET



Description: -

-self-aspirating agitator for gas/liquid contacting

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Notes: Thesis (Ph. D.)- Univ. of Birmingham, Dept. of Chemical Engineering.

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Tags: #Submersible #aerator #type #ABS #XTA #XTAK

## FRIBORATOR C

What's the Difference Between an Axial Flow and Radial Flow Turbine? Modelling gas—liquid and liquid—gas transfers in vinegar production by genetic algorithms. Then, the liquid moves to the so high pressure area under the agitating group causing the liquid to exit from the square directors in the bottom of the container. There are some factors affecting the efficiency of agitating; some are related to the liquid characteristics such as viscosity and density, and some are related to the geometry such as the container diameter  $D$ , impeller length  $Y$ , rotating speed  $N$ , height of impellers from bottom of the container  $h$  as shown in Figure 1.

## Sulzer abs XTA/XTAK

We continually strive to improve our products every day and we work closely with our clients to assure quality of installation as well as proper maintenance. Mass transfer rates from bubbles in stirred tanks operating with viscous fluids. Operating near the catastrophic fall in power level when large cavities develop would be highly undesirable from the mechanical viewpoint.

## Gas Absorption in Agitated Gas

It has a very basic design with direct drive for High Speed Mixing applications. Some applications benefit greatly from this type of action, namely gas dispersion.

## Submersible aerator type ABS XTA XTAK

It is a simple stand or a stand with draft tube. In third attempt, the mutual distance between the impellers was changed from 100 mm to 240 mm and observed the result of agitation.

## Gas/Liquid Mixing Turbines

Impellers of agitators are either Single-Suction or Double-Suction Impellers based on the number of points that the liquid can enter the impeller and also on the amount of webbing between the impeller blades. This can impact several aspects of impeller selection and design.

## **Design and Implementation of Differential Agitators to Maximize Agitating Performance**

Most Dispersion blades have issues related to sufficient fluid motion to get a batch to complete uniformity. Gas is aspirated through the hollow shaft of the Gasjet and then passes through specially shaped gas ducts at the end of the shaft. While lime water is a clear solution, milk of lime on the other hand is a suspension of calcium hydroxide particles in water.

### **Turborator**

Marine propellers are too heavy and too expensive compared with hydrofoil impellers.

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