Sparger

Product Coding
P6.....

Introduction

Sintered metal spargers are advanced gas and liquid dispersion devices designed to deliver uniform, fine bubble distribution inside reactors, absorbers, strippers, neutralization vessels, and other process equipment. Unlike conventional perforated pipes or V-Wire screens, these spargers are manufactured from porous sintered stainless steel or alloy powders, creating a rigid, monolithic structure with precisely controlled pore size. This construction provides highly efficient mass transfer, exceptional mechanical strength, and long service life even under severe oil, gas, and petrochemical operating conditions.

- **Precise pore size control:** Typical pore sizes range from 2 to 100 microns, enabling customized dispersion performance for each application.
- **Non-shedding structure:** The solid sintered matrix eliminates wire breakage or slot deformation associated with conventional screens.
- **High mechanical strength:** Suitable for high pressure services, cyclic operation, and aggressive process fluids.
- **Excellent cleanability:** Can be regenerated by backflushing, chemical cleaning, or thermal treatment.

Features

- **Uniform micro bubble generation:** The controlled porosity produces consistent, fine bubbles, significantly improving gas/liquid contact efficiency.
- **Robust sintered construction:** Manufactured from sintered stainless steel or special alloys, ensuring excellent resistance to pressure, vibration, erosion, and chemical attack.

Applications

- Hydrogen, nitrogen, air, and oxygen injection into reactors and vessels
- Gas dispersion in absorbers, strippers, and scrubbers
- Neutralization and pH control systems
- Sulfur recovery units and amine treatment packages
- Biogas, refinery wastewater, and chemical oxidation processes
- Polymerization and specialty chemical reactors

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