



GAS SPARGING SYSTEM

1. Introduction

The PrepQuip SpringSparge Sparger system is being successfully used in gas injection and flotation applications. The design of this innovative Sparger incorporates a built-in fail-safe mechanism that prevents Sparger blockages due to gas supply pressure failure. This system is offered with PrepQuip's superior sealing port arrangement as standard. This facilitates Sparger removal while the plant is still in operation eliminating the necessity for plant shutdown during maintenance.

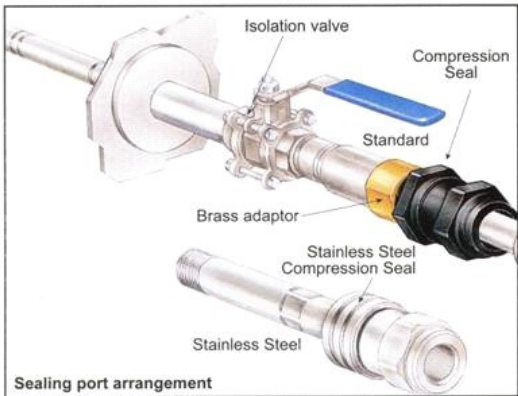
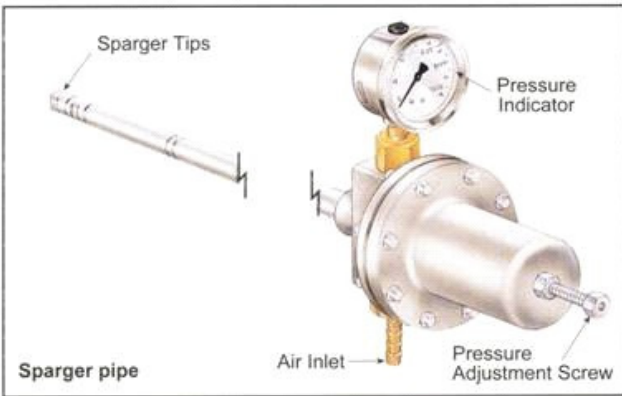
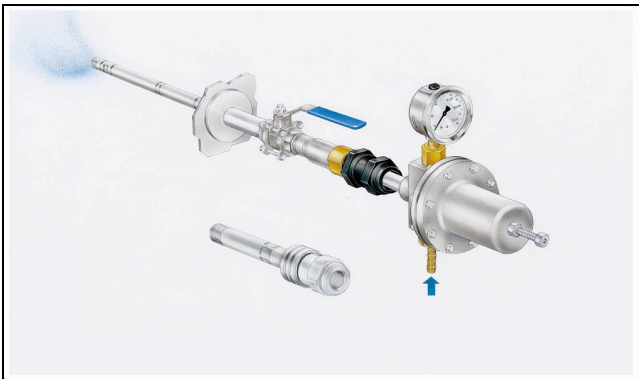


Figure 1 : SpringSparge Sparger – Components and operating principle



The Sparger has found ready acceptance in gas injection applications on the gold mines, flotation column applications and for agitation in mechanical flotation cells to prevent solids build-up.

➤ **Applications**

- Gas injection (gold).
- Flotation columns.
- Agitation (prevention of solids built-up).



Figure 2: SpringSparge Sparger Components

➤ **Features**

- No sparger water.
- Independent control of bubble size and air rate.
- Narrow bubble size distribution.
- Fail-safe design to prevent sparger clogging.
- Sealing port arrangement.
- Maintenance possible during operation.
- Replaceable tungsten carbide and ceramic tips.
- Split nozzle sparger ceramic tip design for optimization.



Figure 3: SpringSparge Sparger Components