

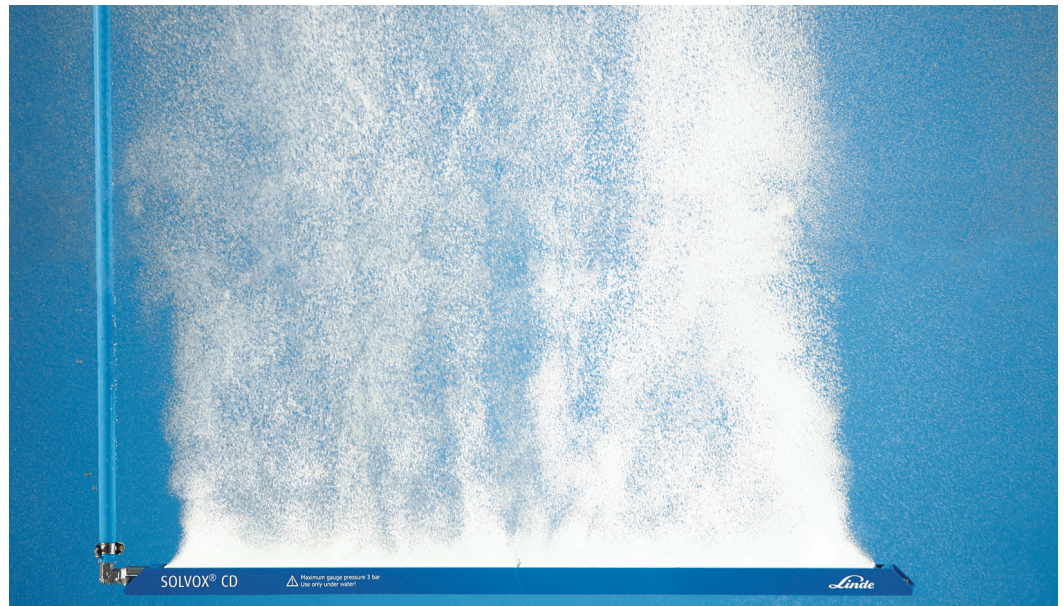


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## SOLVOX<sup>®</sup> ceramic diffuser

### Oxygenation with gas pressure only

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SOLVOX<sup>®</sup> ceramic diffuser in operation

**Introduction** SOLVOX<sup>®</sup> ceramic diffuser distributes the oxygen in the form of small bubbles through perforations in the ceramic surface. Well-suited for shallow freshwater tanks.

- Benefits**
- Simple and flexible oxygenation solution
  - Operates with gas pressure only, no external power needed
  - Easy to install and operate
  - Fine pores
  - Low investment cost

**Description** SOLVOX ceramic diffuser is a flexible, efficient ceramic diffuser that dissolves oxygen directly in the fish tank. Designed specifically for pure oxygen, SOLVOX ceramic diffuser produces micro-bubbles at pressures up to a maximum of 3.0 bar. The base plate, with a painted, robust, salt water resistant aluminium frame and chromium-plated brass connectors, features ultra-fine ceramic pores. The flat design of the ceramic tile ensures that the bubbles are evenly distributed across the entire surface. This homogenous distribution and the micro size of the bubbles make SOLVOX ceramic diffuser well-suited to shallow freshwater tanks.

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## Installation

The ceramic diffuser can be installed quickly and easily. The lower the position of the diffuser, the greater the overall efficiency. Once the diffuser is in the water, the supply pressure should be set to a value between 1.5 and 3.0 barg.

- Before dosing oxygen, immerse the diffuser in the water
- Fouling can reduce the oxygen flow. Do not increase the pressure to compensate for a fouled diffuser. Dry the diffuser and scrub the surface with a rough brush, scrubber, or sandpaper (P60) until the fouling is removed
- Clean the surface of the diffuser regularly to extend the life span
- Clean thoroughly if the stone hasn't been used in a long time (remove salt with fresh water after use in sea water). Please allow to dry and store the diffuser out of sunlight
- Avoid physical impact and shock

## System integration

For an optimal SOLVOX® ceramic diffuser installation, we recommend the following accessories:

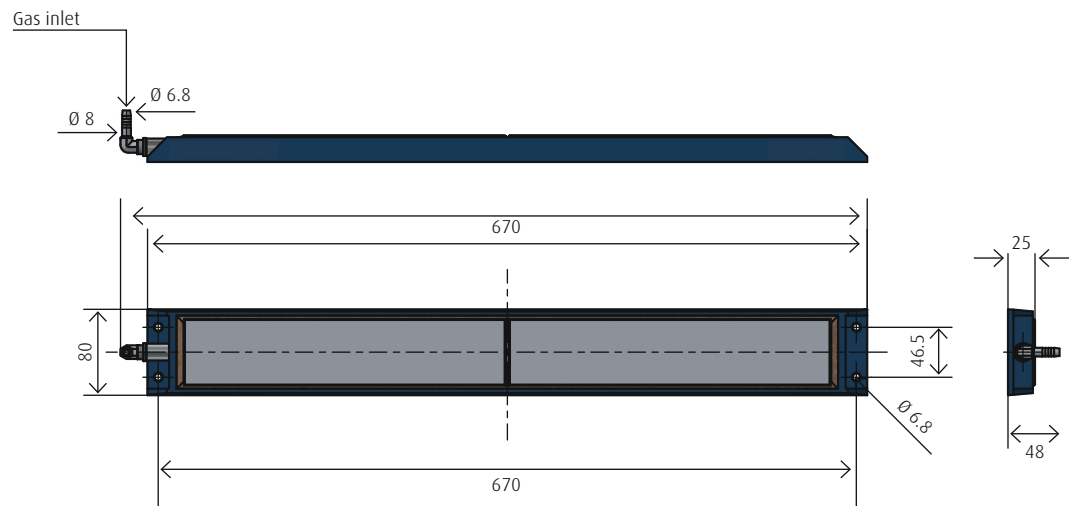
- SOLVOX dosing cabinet
- Supply hose approved for oxygen

Linde offers system integration support and control philosophy.

For optimal oxygen efficiency, we recommend the use of oxygen at purity > 99.5%. The use of oxygen at lower purity can reduce the dissolving efficiency and potentially result into super-saturation of nitrogen in the process water.

## Technical data

Weight	2.0 kg
Maximum working pressure	3.0 barg
Dosing capacity	1.0 kg/h
Hose connection	6.3 mm (elbow) 10 mm (elbow or straight)
Material	Aluminum, ceramics, brass, epoxy



Linde

aquaculture@linde.com, www.linde-gas.com

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