

Air Buffer Orifice

Water Level

General Description

KISTERS' Air Buffer Orifice (ABO1P) is designed to replace the standard orifice in a gas purge water level measurement system. It permits the **use of extremely low bubble rates with increased sensitivity** and near total reduction of lag between actual level rise and orifice pressure. It can also operate satisfactorily when buried under up to 1 m of silt.

Bubble rates as low as 10 bubbles per minute can be used, thereby **reducing gas consumption** and prolonging the life of the gas bottle, or reducing the duty cycle operation of the compressor pump on our HS40AFC or HS40 Series II bubbler water level measurement systems.

The main ABO1P chamber is constructed entirely of polyethylene with a copper coated brass screen to deter aquatic growth, and is supplied fitted with a 2" flexible coupling (ABO1P/Stainless Steel model only) to

suit a standard 2" threaded pipe and to allow easy installation as the coupling allows up to 30 degrees of adjustment from horizontal. The ABO1P has an in-built 1/4 inch NPT hex brass coupling and is supplied with 1/4 inch NPT male to 3/8". The bottom of the chamber includes a revolving copper coated brass screen for cleaning purposes. The unit is designed to be fitted to existing installations preferably during low water condition.

Features

- Robust construction
- Non-corrosive material
- Zero lag at 2.5 m H2O with a rate of rise of 9 metres/hour (see manual for details)
- Flexible coupling (ABO1P/Stainless Steel model only)
- Low bubble rate consumption
- Prolongs the life of the gas bottle
- Longer battery life by reducing the duty cycle operation of a gas purge compressor



Technical Specifications

Material	- Body: polyethylene - Screen: brass, copper plated (reduces aquatic growth) - Coupling: 316 stainless steel
Screen	Revolving screen for ease of cleaning
Bubble rate	Reduce bubble rate to 10 bubbles/min
Dimensions	410 mm x 210 mm x 110 mm

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