THE LINDE GROUP

ECOCYL® OSQ On-Demand Flow.
Portable HiQ® specialty gases solution.

Background

The requirement for calibration gases in small, portable cylinders has expanded as applications in areas such as remote environmental monitoring, industrial hygiene, health & safety and mobile laboratory instrumentation continue to grow. Recognizing these needs, Linde developed ECOCYL®, our portable specialty gases solution. A small, lightweight cylinder with a patented all-in-one cylinder valve, pressure regulator and flow meter, ECOCYL® makes remote calibration quick and easy.

Requirement

The calibration or "bump testing" of gas detectors is a necessary and time consuming requirement. Many manufacturers are now using automated docking stations to simplify and record calibrations. Docking stations allow the user to initiate these with the push of a button.

Description

The ECOCYL® OSQ is an on-demand flow type all-in-one cylinder, valve and regulator combination. Suited for sub-atmospheric pressures, the ECOCYL® OSQ works well with docking systems for bump test and instrument calibration. The standard gas outlet supplied is a quick connect type that can be combined with Swagelok® quick connect fittings.

Gas Compatibility

The ECOCYL® OSQ is suited for non-corrosive pure gases as well as gas mixtures that might contain non-corrosive as well as mildly corrosive components. The unit does not comply with requirements for gases with oxidizing potential. As a result, pure oxygen (including all oxidizing gases and gas mixtures) may not be supplied using the ECOCYL® OSQ. For requirements using liquefied chemical and reactive products, we also offer the ECOCYL® models VSH or VAH.

Safety

Devices such as the Linde ECOCYL® OSQ unit are also known by the abbreviation VIPR (valve-integrated pressure regulator). Similar to standard cylinder valves, a VIPR must be tested intensively according to the transportable pressure equipment directive (TPED, European Council directive 1999/36/EC). Approved units are signed with the Greek letter π (pi), followed by 4 digits. As such, the supplied outlet connection is an integral part of the cylinder, and changes are not allowed after filling.

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Benefits

- Lightweight aluminium with optional carrier strap makes for easy mobility.
- Refillable –no cylinder disposal issues.
- Cost effective higher pressure cylinder ensures consistent results and gas supply over a longer calibration period.
- Combination of cylinder valve, fixed regulator and flow meter is fully integrated within the cylinder protection cap. The result is an easy, ready for use system. The end user only needs to open the cylinder valve and connect it to their system.
- Fixed demand flow regulator and has been designed for use with sub-atmospheric pressures and instruments equipped with a pump to draw to provide the exact amount of gas that the instrument requires.
- OSQ makes "bump" testing, and calibration quick and easy.

ECOCYL® OSQ Data

Dimensions	
Diameter	9.5 cm / 3.7"
Height	44 cm / 17"

Weight	
Empty	2.5 kg / 5.5 lb

Maximum Filling pressure	150 bar g / 2,200 psig / 15000 kPa
Gas volume	0.15 m^3 (gas-dependent)
Outlet pressure Maximum	95-240 mbar abs. / 1,4-3 psi abs.
Pressure Indicating Guage	0-200 bar g / 0-3,000 psi g
Outlet flow	3 liters/minute +/- 15% max.
Standard Outlet connection	Quick connector for compression type QM2-B-XXX adapter
Optional Outlet connection	Hose barb connection on request

Ease of use with ECOCYL®
Portable HiQ® specialty gases solution

ECOCYL® OSQ can be used with a variety
of gas detector docking stations

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