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Installation, Operation and Maintenance Instructions

Air/Gas Receivers

OM031

These operating and maintenance instructions are for Air/Gas Receivers. Please note that an electronic version of these instructions is available from our website. Please contact our sales office for further information.

Rev	Date	By	Details
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1.0 Standard Unit Information & Description

The air/gas receiver vessel is intended for containing group 2 gases as defined in the pressure equipment directive. These are non-flammable, non-explosive, relatively unreactive gases such as air and nitrogen.

Standard Material Options Schedule	
Shell	316L Stainless Steel
(Other materials on request)	

Design Data	Shell Side
Maximum Working Pressure	Refer to Vessel Nameplate
Hydraulic Test Pressure	Refer to Vessel Nameplate
Design Code	Refer to Vessel Nameplate

Please refer to our brochure for standard connection and dimensional data.

2.0 PED Information

The air/gas receiver vessels are designed in accordance with the requirements of the Pressure Equipment Directive 97/23/EC. Units in category 1 and above for use in Europe are CE marked and appropriate markings and certification are supplied with each unit.

It is the responsibility of the user and/or installer to ensure that the unit is installed and operated safely, and in accordance with the instructions supplied within this manual.

3.0 Installation

Lifting & Handling: Use lifting eyes (if supplied). Care should be exercised when handling and moving the unit not to damage the shell. Do not lift the vessel using chains directly in contact with the shell. Do not allow operatives to stand on the vessel

Siting: The vessel must be bolted onto a firm and level base. Ensure enough room exists to gain access to the site-hole inspection openings.

Remove any protective covers/plugs which may have been fitted to connections to protect them in transit.

Check for and remove any foreign material which may have got into the vessel.

If a connection is not required seal it appropriately.
A safety valve, set to open at or below the vessel design pressure, must be fitted to the safety valve connection, before commissioning

Pipe-work connected to the vessel should be supported to prevent loads being transmitted to the vessel. Provide for thermal expansion with bends, expansion joints or flexible connections. For screwed connections use a thread sealant suitable for the particular application. The pressure relief valve should have its outlet piped away to a safe position.

The vessel should be installed in compliance with all applicable national regulations for the country in question. For example in the UK, prior to vessel use the user may need to put in place a written scheme of examination in accordance with Pressure Systems Safety Regulations

4.0 Commissioning and Operation

Do not operate the vessel at pressures or temperatures in excess of those specified on the GMS nameplate attached to the vessel.

Severe pressure fluctuations should be avoided. The vessel is not designed to withstand cyclic loads

Do not subject the vessel to conditions of vacuum or partial vacuum or fire/any similar source of heat.

5.0 Maintenance

- Periodically drain any water/condensate from the vessel.
- Periodically check for corrosion and examine the vessel in accordance with any written scheme of examination in place for the vessel.

6.0 End of Life Disassembly, Recycling & Disposal

Please consult the general assembly drawing and product data sheets of the supplied unit for specific information regarding the materials used. Dispose of all material responsibly and in accordance with all local regulations. For further information, please contact the GMS Technical Team on 01457 835 700.

7.0 Recommended Spares

No spare parts are available for these vessels.