

1 Introduction

This specification describes the requirements that need to be met by the oxygen product or storage tank, which will be installed after an OGP/OGP+ oxygen generator. The concentration of the oxygen gas will measure up to 96%.

2 Requirements

2.1 Materials

- Carbon steel: preferably painted. Recommended: vitroflex coating inside.
- Stainless steel

2.2 Cleaning

The oxygen tank needs to be suited for oxygen use according to **CGA G-4.1**, **ISO15001**, **EIGA IGC Doc 33/06** or **ASTM G93/G93M -19**. The main criteria for these standards is that the maximum level of **VOC's** (Volatile Organic Compounds) is **less than 500mg/m²** on functional surfaces (surfaces that are in direct contact with the oxygen gas).

2.3 Pressure

The required minimum pressure of the tank is **10 barg / 145 psi**. The tank needs to be protected by means of an **oxygen approved safety valve**. **The maximum relief pressure of the safety valve must not exceed 11 barg / 159.5 psi.**

2.4 Labeling

To acknowledge the compatibility with oxygen, the tank needs to be **labelled "cleaned for oxygen service"**. This remark also has to be mentioned in the documentation supplied with the tank.