

Installation, Operation and Maintenance Instructions

Flash Vessel

OM020



These operating and maintenance instructions are for the Flash Vessel. 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
C	01/07/2016	Natasha Bennett	PED Code Updated
Revision Details			

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1.0 Standard Unit Information & Description

The FV range of flash vessels is intended for containing group 2 gases and liquids 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	API5L / A106B carbon 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 standard range of flash vessels is designed in accordance with the requirements of the Pressure Equipment Directive 2014/68/EU. Units classed as SEP in the PED category are not supplied with a CE mark. Units in category 1 and above are CE marked and appropriate markings and certification is 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.

In reference to the Pressure Equipment Directive 2014/68/EU, Annex I clause 2.11.2. and 7.3. any momentary pressure surge should be kept to 10% of the maximum allowable pressure, otherwise the vessel should be designed so that the maximum allowable pressure will not permanently be exceeded. A CE Marked safety valve must be fitted to protect the vessel from overpressure.

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 excessive cyclic loads

Do not subject the vessel to conditions of vacuum or partial vacuum.

Do not subject the vessel to fire or any similar source of heat

5.0 Maintenance

Drain any water/condensate from the vessel as it occurs.

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 spares are available for Flash Vessels.