

GENERAL SPECIFICATION

PIPING VALVES VESSELS

GS EP PVV 813

Skid mounted units for static equipment

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1. Scope

This document defines the minimum requirements to meet about the characteristics of the design, construction, inspection and testing of skid-mounted assemblies, for pressures vessels intended for transportation and installation on production facilities.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
AISC 9th edition	Specification for the design, fabrication and erection of structural steel for building
ASME B31.3	Process piping
ASTM A123	Standard Specification for Zinc (Hot-Dip Galvanised Coatings on Iron and Steel Products
AWS D1.1 or EN 287	Approval testing of welders - Fusion welding
AWS D1.1 or ISO 15614-1	Specification and approval of welding procedures for metallic parts

Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published in the applicable yearly collection.

Reference	Title
GS EP COR 350	External protection of offshore and coastal structures and equipment by painting
GS EP COR 354	External protection of onshore structures and equipment by painting
GS EP COR 356	Corrosion Protection of Fasteners for Subsea and Topsides Applications
GS EP PVV 112	Piping material classes
GS EP PVV 771	Thermal insulation (hot service) (cancelled document)
GS EP PVV 772	Thermal insulation (cold service) (cancelled document)

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3. Quality

Before the start of fabrication the Manufacturer must draw up a Quality Plan giving Fabrication (including welding) and Inspection operations. These operations shall be performed according to detailed procedures.

This Quality Plan shall be submitted to the Company for review and specification of his intervention points for inspection.

Before starting construction, the Manufacturer shall also submit his fabrication drawings and welding plan to the Company for approval. Fabrication shall only begin when the Company has approved the documents submitted.

4. General

The overall dimensions and weight of the package shall be adapted to the intended transport mode. If necessary, it may consist of several volumes connectable on the erection site.

The equipment shall be installed and fastened to a metal framework which shall:

- Meet the service conditions imposed by the equipment, such as permissible deflection
- Enable handling operations, particularly during package loading and unloading, and protect the package during operations other than the lifting indicated
- Ensure the integrity of the assembly under the inertia loads generated by transportation
- Enable the assembly to be lifted for its installation on an onshore site.

The installation shall be designed with due consideration of:

- Ease of construction and operation (sufficient space around the equipment, accessibility of instruments and valves, positioning of operating handles, etc.)
- Ease of maintenance (ease of erection and dismantling, clearance required, handling systems and means)
- Safety instructions and any future equipment additions.

The Supplier shall revert to the Company if the overall dimensions specified for the skid are such that enough clearance for maintenance and operation work cannot be fulfilled.

All product and utility piping shall be brought to the edge of the skid and shall stop at flanges or reunions. Similarly, all the cables shall be run along appropriate tracks to junction boxes placed at the skid limit.

Note: In addition to the package volume and equipment layout, the designer of the package shall advise his Subcontractor of the main options for the paths of the pipe sheets, the definition of the access zones necessary for equipment operation and maintenance, the passage of cableways, etc.