



Exploration & Production

GENERAL SPECIFICATION

PIPING VALVES VESSELS

GS EP PVV 814

**Skid mounted units for chemical products
injection systems**

05	01/2011	New revision
04	10/2009	Update of reference documents
03	10/2008	update
02	10/2005	Addition of "EP" root to GS identification
00	03/2001	First issue
Rev.	Date	Notes

Owner: EP/TDO/TEC

Managing entity: EP/TDO/TEC/PVV



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1. Scope

This document defines the minimum requirements for the design, fabrication and inspection of skid-mounted chemical product injection systems.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Unless otherwise indicated in the detailed contractual conditions all the reference documents to be used as well their supplements shall be the latest editions.

Standards

Reference	Title
AISC	Manual for steel construction load and resistance factor design
IEC 60079	Electrical Apparatus for Explosive Gas Atmospheres
IEC 60364-5-52	Electrical Installation of Buildings. Part 5-52: Selection and Erection of Electrical Equipment - Wiring Systems

Professional Documents

Reference	Title
API STD 675	Controlled volume positive displacement pumps

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
ASME B31.3	Process piping
ASME VIII div. 1	Rules for Construction of Pressure Vessels
ASME X	Fiberglass reinforced plastic pressure vessels
AWS D1.1	Structural welding code

**Other documents**

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
GS EP COR 163	Chemical treatments for corrosion control: Engineering and construction requirements
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 ELE 079	Electrical apparatus for potentially explosive gas atmospheres
GS EP ELE 111	Induction motors
GS EP ELE 311	Cable trays/ladders
GS EP INS 101	Instrumentation engineering, supply and construction general requirements
GS EP PVV 112	Piping material classes
GS EP PVV 813	Skid mounted units for static equipment
GS EP SAF 228	Liquid drainage

3. Quality

Before the start of fabrication, the Manufacturer must draw up a Quality Plan detailing all the fabrication and inspection operations. These operations shall be the subject of detailed procedures. The quality plan shall be submitted to the Company for his own points of intervention for inspection to be added.

Before starting construction, the Manufacturer shall also submit his fabrication drawings and welding documents to the Company for approval. Fabrication shall not begin until the Company has approved the documents submitted.

4. Definition of injection principles

The assignment of pumps, and the way the heads are combined on motors, shall be based on the following criteria:

- Duty: batch, continuous, continuous+ batch
- Segregation according to pressures at the injection points