



Exploration & Production

GENERAL SPECIFICATION

SUBSEA SYSTEMS

GS EP SPS 015

**Subsea gate valves and actuators in subsea
Xmas-tree systems**

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1. Scope

The purpose of this specification is to define the functional and design requirements to gate valves and actuators in subsea X-Mas Tree Systems. This specification covers both ROV operated valves and hydraulically operated valves with ROV override and is applicable for all gate valves in the X-Mas Tree System including IWOCs valves exposed to well fluids. Well fluids herein shall read produced or injected liquid, condensate or gas which may be inhibited with the project defined chemicals for improved service.

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.

This technical specification is complementary to document **GS EP SPS 001**, and shall therefore be read in conjunction with said document and the other Company specifications and standards identified therein.

The valves shall comply with all relevant statutory requirements and specifications as well as all relevant ISO and other referenced standards, unless otherwise stated by Company.

Standards

Reference	Title
API 6A	Specification for Wellhead and Christmas Tree Equipment
API 14D	Specification for Wellhead Surface Safety Valves and Underwater Safety Valves for Offshore Services
API 17D	Specification for Subsea Wellhead and Christmas Tree Equipment
ASME B16.5	Pipe flanges and flanged fittings
ASME B16.34	Valves - Flanged, Threaded, and Welding End
ASME	Boiler and Pressure Vessel Code Section V - Non Destructive Examination
ISO 4406	Hydraulic fluid power - Fluids - Methods for coding the level of contamination by solid particles
ISO 10423	Petroleum and Natural Gas Industries - Drilling and Production Equipment - Wellhead and Christmas Tree Equipment
ISO 13628	Petroleum and Natural Gas Industries - Design and Operation of Subsea Production Systems
ISO 13628-1	Petroleum and Natural Gas Industries - Design and Operation of Subsea Production Systems - Part 1: General Requirements and Recommendations
ISO 13628-4	Petroleum and Natural Gas Industries - Design and Operation of Subsea Production Systems - Part 4: Subsea Wellhead and Tree Equipment



Professional Documents

Reference	Title
Not applicable	

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
GS EP PVV 142	Valves
GS EP SPS 001	Design philosophy and requirements for Subsea Stations
GS EP SPS 009	Corrosion protection of subsea stations
GS EP SPS 029	Metallic Materials for Subsea Production Facilities

3. Introduction

3.1 Responsibility

It is the responsibility of anyone who supplies equipment to this specification to ensure compliance with the requirements defined by this specification, other referenced standards and statutory requirements. Any deviation from any of the requirements defined herein shall be clearly identified and treated as a non-conformance.

3.2 Abbreviations

The following abbreviations are used in the document:

ROV Remote Operated Vehicle