



Exploration & Production

GENERAL SPECIFICATION

PIPING VALVES VESSELS

GS EP PVV 145

Flanges

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1. Scope

This specification completes the description given in the requisitions issued by the Engineering Company and stipulates the particular requirements for the fabrication, inspection and shipment of flanges or hub connectors made of carbon steel, alloy steel, stainless steel and copper alloys.

This specification does not apply to flanges made of glass-reinforced plastic materials (GRP).

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.

Standards

Reference	Title
API 5L	Line Pipe
API SPEC 6A / ISO 10423	Specification for Wellhead and Christmas Tree Equipment
ASME B1.20.1	Pipe Threads (Except Dry seal)
ASME B16.5	Steel Pipe Flanges and Flanged Fittings
ASME B16.11	Forged Steel Fittings, Socket-Welding and Threaded
ASME B16.36	Steel Orifice Flanges
ASME B16.47	Large diameter steel flanges (NPS 26 through NPS 60)
ASME B36.10M	Welded and seamless Wrought Steel Pipe
ASME B36.19M	Stainless Steel Pipe
ASME B46.1	Surface Texture
ASTM A 105	Standard Specification for Forgings, Carbon Steel, for Piping Components
ASTM A 182	Standard Specification for Forged or Rolled Alloy Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service
ASTM A 350	Standard Specification for Forgings, Carbon and Low-alloy Steel, requiring notch toughness testing for Piping Components
ASTM A 370	Standard Specification for Mechanical Testing of Steel Products
ASTM A 530	Standard Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe
ASTM B 369	Standard Specification for Copper-nickel alloy castings
ASTM B 171/B 171M	Standard Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers, and Heat Exchangers
EN 10204	Metallic products - Type of inspection documents