Operator and Mounting Kits for Subsea Pipeline Valves

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Introduction

It is necessary that users of this document be aware that further or differing requirements can be needed for individual applications. This document is not intended to inhibit a vendor from offering or the purchaser from accepting alternative equipment or engineering solutions for the individual application. This can be particularly applicable where there is innovative or developing technology. Where an alternative is offered, it is the responsibility of the vendor to identify any variations from this document and provide details.

Units of measurement

In this specification, data are expressed in both SI and USC units.

Rounding

Except as otherwise required by this specification, to determine conformance with the specified requirements, observed or calculated values are rounded to the nearest unit in the last right-hand place of figures used in expressing the limiting value, in accordance with the rounding method of ASTM E29 or ISO 80000–1.

Operator and Mounting Kits for Subsea Pipeline Valves

1 Scope

This standard defines the requirements for design, mechanical integrity, and sizing of operators and related components used on subsea pipeline valves that conform to API Specification 6DSS.

This standard is applicable to the following:

— electric actuators;

— electro-hydraulic actuators;

— hydraulic actuators;

— actuator override systems;

— diver and remotely operated tool (ROT)-operated gearboxes;

— other actuators, by agreement;

— mounting kit;

— pressure and volume compensation and associated systems;

— pressure caps;

— protection covers; electrohydraulic

— position indication systems.

This standard is not applicable to the following:

— manual or powered torque tools not permanently mounted;

— actuator control system equipment/components;

— remote-located units.

2 Normative References

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any addenda) applies.

API Specification 6DSS, *Specification for Subsea Pipeline Valves*

API Specification 17D, *Design and Operation of Subsea Production System—Subsea Wellhead and Tree Equipment*

API Recommended Practice 17H, *Remotely Operated Tools and Interfaces on Subsea Production Systems*

API Recommended Practice 17U, *Recommended Practice for Wet and Dry Thermal Insulation of Subsea Flowlines and Equipment*