

# Specification for Choke and Kill Systems

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## SECTION 1 SCOPE

**1.1 PURPOSE.** This specification was formulated to provide for safe and functionally interchangeable surface and subsea choke and kill systems equipment utilized for drilling oil and gas wells. Other parts of the Choke and Kill System not specifically addressed in this document shall be in accordance with the applicable sections of this specification.

Technical content provides the minimum requirements for performance, design, materials, welding, testing, inspection, storing and shipping.

### 1.2 APPLICATIONS

**1.2.1 EQUIPMENT.** Equipment, specific to and covered by this specification, is listed below:

- Actuated valve control lines
- Articulated Choke & Kill Line
- Drilling choke actuators
- Drilling choke control lines, exclusive of BOP control lines and subsurface safety valve control lines
- Drilling choke controls
- Drilling chokes
- Flexible choke and kill lines
- Union connections
- Rigid choke and kill lines
- Swivel unions

**1.2.2 OTHER EQUIPMENT.** Other Equipment included in specification, but covered by other API Specifications is listed below:

- Check valves
- Chokes
- Crosses and tees
- Flanged, studded end and outlet connections
- Flow through valves
- Hubbed end and outlet connections
- Production choke actuators
- Ring gaskets
- Studs and nuts
- Threaded end connections
- Valve actuators

**1.3 SERVICE CONDITIONS.** Service conditions refer to requirements for pressure, temperature and fluid compatibility as delineated in Section 3, Design Requirements.

Because Choke and Kill Systems are mobile and are moved to different areas, all service conditions they may be exposed to cannot be defined in this document. However, conditions that are consistent with API Specifications 6A and 16A have been adopted, which define a sour, moderately corrosive environment. If severe corrosion, abrasion, temperatures or high levels of sour gas are expected, the user and manufacturer shall jointly address the requirements and determine the suitable product for the application.

### 1.4 PRODUCT SPECIFICATION

1. This specification establishes minimum requirements for products listed in Section 1.2.1, Equipment.

2. Products listed in Section 1.2.2, Other Equipment, that have requirements established in API Specification 6A, 16th edition shall have a minimum of product specification level PSL 3, material class EE and a Temperature Rating from Section 3.5.2 as appropriate for Choke and Kill System applications.

3. Choke and Kill System equipment manufactured prior to the effective date of this specification is outside the scope of this document.

**1.5 REFERENCED STANDARDS.** This specification includes by reference, either in total or in part, other API, Industry and Governmental Standards listed in Table 1.5.3 Referenced Standards.

**1.5.1 REQUIREMENTS.** Requirements of other standards included by reference in this specification are essential to the safety and functional interchangeability of the equipment produced.

**1.5.2 ALTERNATE STANDARDS.** Other nationally or internationally recognized standards shall be submitted to and approved by API for inclusion in this specification prior to use as equivalent requirements.