

Choke and Kill Systems

**API Specification 16C
Second Edition, XXX 2010**

This draft is for committee balloting purposes only.

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. Choke and kill system components 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. Items which may be monogrammed when supplied in accordance with this specification are identified in Annex I:

- a. Actuated choke & kill manifold valve control lines
- b. Articulated choke and kill Lines
- c. Assembled choke & kill equipment
- d. Choke and kill manifold buffer chamber
- e. Choke and kill manifold assembly
- f. Drilling choke actuators
- g. Drilling choke control lines, exclusive of BOP control lines and subsurface safety valve control lines
- h. Drilling choke controls
- i. Drilling chokes
- j. Flexible choke and kill lines
- k. Union connections used in choke and kill assemblies
- l. Rigid choke and kill lines
- m. Swivel unions used in choke and kill assemblies

1.2.2 Other Equipment

Other Equipment included in specification, but covered by other API Specifications is listed below:

- a. Check valves
- b. Production chokes
- c. Crosses and tees
- d. Flanged, studded end and outlet connections
- e. Flow through valves
- f. Hubbed end and outlet connections
- g. Production choke actuators
- h. Ring gaskets
- i. Studs and nuts
- j. Threaded end connections
- k. Valve actuators

1.3 Service Conditions

Service conditions refer to requirements for pressure, temperature, and fluid compatibility as delineated in Section 4.

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

1.4.1 This specification establishes minimum requirements for products listed in Section 1.2.1.