

# Specification for Choke and Kill Systems

API SPECIFICATION 16C (SPEC 16C)  
FIRST EDITION, JANUARY 29, 1993

American National Standard  
ANSI/API SPEC 16C-93  
Approved: July 12, 1993

**American Petroleum Institute**  
1220 L Street, Northwest  
Washington, DC 20005



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## TABLE OF CONTENTS

	Page
POLICY .....	6
FOREWORD .....	7
<b>SECTION 1 SCOPE</b>	
1.1 Purpose .....	8
1.2 Applications .....	8
1.3 Service Conditions .....	8
1.4 Product Specification .....	8
1.5 Referenced Standards .....	8
1.6 Dimensional Units .....	10
1.7 Metric/SI Conversion .....	10
1.8 Appendices .....	10
<b>SECTION 2 ABBREVIATIONS &amp; DEFINITIONS</b>	
2.1 Abbreviations .....	11
2.2 Definitions .....	11
<b>SECTION 3 DESIGN REQUIREMENTS</b>	
3.1 Design Method .....	14
3.2 Performance Requirements .....	14
3.3 Performance Verification .....	14
3.4 Bore Sizes & Rated Working Pressures .....	14
3.5 Service Conditions .....	15
3.6 Closure Bolting .....	15
3.7 Clamps .....	15
Table 3.8 Fraction to Decimal Conversion .....	16
3.9 Test, Vent, Pipe Plugs and Gauge Connections .....	16
3.10 Design Documentation .....	16
<b>SECTION 4 MATERIAL REQUIREMENTS</b>	
4.1 Written Specifications .....	17
4.2 Drilling Chokes .....	17
4.3 Closure Bolting .....	17
4.4 Flexible Lines .....	17
4.5 Pressure Containing Parts, Bodies, Bonnets, Stems and End Connections .....	17
4.6 Rigid Piping .....	19
4.7 Qualification Test Coupons .....	19
<b>SECTION 5 WELDING</b>	
5.1 Non-Pressure Containing Weldments .....	22
5.2 Pressure Containing Fabrication Weldments .....	22
5.3 Pressure Containing Repair Weldments .....	24
5.4 Weld Overlay .....	24
<b>SECTION 6 QUALITY CONTROL</b>	
6.1 Measuring And Testing Equipment .....	26
6.2 Quality Control Personnel Qualifications .....	26
6.3 Quality Control Requirements .....	27
6.4 Assembled Equipment .....	33
6.5 Quality Control Record Requirements .....	35

## TABLE OF CONTENTS (Continued)

	Page
<b>SECTION 7 MARKING</b>	
7.1 Low Stress Area Marking .....	37
7.2 High Stress Area Marking .....	37
7.3 Equipment Specific Marking .....	37
7.4 Hardness Marking For Bodies, Bonnets, and Flanges .....	37
<b>SECTION 8 STORING AND SHIPPING</b>	
8.1 Storing .....	38
8.2 Shipping .....	38
<b>SECTION 9 EQUIPMENT SPECIFIC REQUIREMENTS</b>	
9.1 Performance Verification .....	39
9.2 Acceptance Criteria .....	39
9.3 Hydrostatic Testing .....	40
9.4 Non-metallic Seals .....	40
9.5 End And Outlet Connections .....	41
9.6 Unions & Swivel Joints .....	42
9.7 Ring Gaskets .....	43
9.8 Studs And Nuts .....	43
9.9 Drilling Chokes .....	43
9.10 Performance Verification For Drilling Chokes .....	43
9.11 Actuators For Drilling Chokes .....	44
9.12 Performance Verification For Drilling Choke Actuators .....	44
9.13 Rigid Piping .....	45
9.14 Flexible Choke And Kill Lines .....	45
9.15 Articulated Choke & Kill Lines .....	48
9.16 Hydraulic Control System, Drilling Chokes .....	48
9.17 Operating Manual Requirements .....	49
<b>SECTION 10 APPENDICES</b>	
10.1 SI/Metric Unit Conversions .....	50
10.2 Purchasing Guidelines .....	50
10.3 Recommended Rated Working Pressure At Elevated Temperatures .....	50
10.4 Recommended Practice For Heat Treating Equipment Qualification .....	51
10.5 Flexible Line Tests .....	52
10.6 Weld Preparation Designs .....	53
10.7 Typical Choke and Kill System Configurations .....	57
10.8 Calculations .....	58
10.9 Drilling Choke Control Console System .....	59
10.10 Marking .....	60

## LIST OF TABLES

	Page
Referenced Standards .....	9
Bore Sizes & Rated Working Pressures .....	14
Union, Swivel Joint and Articulated Lines .....	15
Flexible Line Sizes & Rated Working Pressures .....	15
Temperature Ratings for Materials & Flexible Lines .....	15
Fraction to Decimal .....	16
Pressure Containing Parts Material Requirements .....	17
Pressure Containing Parts Material Designations .....	17
Pressure Containing Parts Steel Composition Limits .....	18
Alloying Element Range Requirements .....	18
Charpy V-Notch Impact Requirements .....	19
QC Requirements for Bodies, Bonnets & Connections .....	27
Minimum Hardness Values, Bonnets, Bodies & Connections .....	27
Hot Worked Parts Acceptance Criteria .....	29
Casting Acceptance Criteria .....	29
Weld Inclusion Length Acceptance Criteria .....	30
Weld Inclusion Length Acceptance Criteria .....	30
QC Requirements for Stems .....	30
QC Requirements for Pressure Controlling Metallic Parts .....	31
QC Requirements for Pressure Containing Actuator Parts .....	31
QC Requirements for Non-metallic Sealing Materials .....	32
QC Requirements for Pressure Containing Flexible Line Parts .....	32
QC Requirements for Rigid Piping .....	33
QC Requirements for Male & Female Subs .....	33
QC Requirements for Assembled Equipment .....	33
Hydrostatic Test Pressure, Assembled Equipment .....	34
Metallic Marking Requirements .....	37
Standard Test Fluid .....	40
Rated Working Pressures & Sizes for End & Outlet Connections .....	41
Union & Swivel Joint Sizes, Rated Working Pressures .....	42
Drilling Choke Performance Requirements .....	43
Drilling Choke Actuator Performance Requirements .....	44
Flexible Line Sizes & Rated Working Pressures .....	46
English to SI Units .....	50
Temperature Rating Classification .....	50
Pressure-Temperature Ratings — 6B .....	50
Metallic Marking Requirement (Monogram Licensees) .....	61

**LIST OF FIGURES**

	Page
Equivalent Round Models, Simple Geometric Shapes .....	19
Equivalent Round Models, Complex-Shaped Components .....	20
Equivalent Round, Keel Block Configuration .....	20
Rockwell Hardness Test Locations .....	23
Vickers Hardness Test Locations .....	23
Hardness Tests Locations .....	25
Typical Flexible Line Construction .....	40
Typical Flexible Line End Termination .....	46
Typical Articulated Line Assembly .....	48
Thermocouple Locations .....	51
Pipe Butt Joints, Welding .....	53
U-Groove, Welding .....	53
Heavy Wall V-Groove, Welding .....	53
Attachment Welds .....	54
Hole Repair, Welding .....	54
Weld Repair Excavation .....	55
Bushing Cavity, Weld Repair .....	56
Seat Cavity .....	56
Typical 2000 psi (13,8 MPa) Manifold .....	57
Typical 5000 psi (34,5 MPa) Manifold .....	57
Typical 10,000 psi to 20,000 psi Manifold (69,0-138,0 MPa) .....	58

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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 moderately corrosive environment. If severe corrosion, abrasion, temperatures or high levels of sulfur 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 L3 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.