

Eighteenth Edition titled Specification for Pipeline Valves, End Closures, Connectors and Swivels, with Supplement 3, July 1985. The new edition includes detailed drawings and valve specifications that aid in efficient and proper pipe scheduling and valve sizing, important in determining flow considerations and leak prevention. It also clarifies the types of valves covered by the RP and the testing and marking requirements for the valves. Also, tables have been simplified and converted to metric equivalents.

Documents Incorporated by Reference in Subpart L

The title and publication date of each proposed document incorporated by reference is listed below. A brief discussion of any major changes between the new and current edition is also listed below.

1. API RP 2556, Recommended Practice for Correcting Gage Tables for Incrustation, Second Edition, August 1993. This document replaces 1968 edition of the same title. The new edition adds metric unit measurement units to supplement the usual inch-pound measurement units and contains some minor editorial changes.

2. API Manual of Petroleum Measurement Standards (MPMS), Chapter 4—Proving Systems:

The following 7 sections replace the single reference to Chapter 4, Proving Systems, First Edition, May 1978.

MPMS, Chapter 4.1, Introduction, First Edition, July 1988, reaffirmed October 1993. This document is a rewrite and combination of the old introduction in Chapter 4 and old section 4.5.

3. MPMS, Chapter 4.2, Conventional Pipe Provers, First Edition, October 1988, reaffirmed October 1993. This document replaces the old section 4.2 in Chapter 4.

4. MPMS, Chapter 4.3, Small Volume Provers, First Edition, July 1988, reaffirmed October 1993. This document is a new standard for the use of small volume provers.

5. MPMS, Chapter 4.4, Tank Provers, First Edition, October 1988, reaffirmed October 1993. This document replaces the old section 4.3 in Chapter 4.

6. MPMS, Chapter 4.5, Master-Meter Provers, First Edition, October 1988, reaffirmed October, 1993. This document replaces the old section 4.4 in Chapter 4.

7. MPMS, Chapter 4.6, Pulse Interpolation, First Edition, July 1988, reaffirmed October 1993. This document is a new standard with primary application to the use of small provers.

8. MPMS, Chapter 4.7, Field-Standard Test Measures, First Edition, October 1988, reaffirmed March 1993. This document replaces the old section 4.1 in Chapter 4.

9. MPMS, Chapter 5.1, General Considerations for Measurement by Meters, Second Edition, November 1987, reaffirmed October 1992. This document replaces Chapter 5.1, Foreword, General Considerations and Scope of the First Edition, November 1976. The new edition expands and contains the general guidelines for selecting either positive displacement meters versus turbine meters.

10. MPMS, Chapter 5.2, Measurement of Liquid Hydrocarbons by Displacement Meters, Second Edition, November 1987, reaffirmed October 1992. This document replaces Chapter 5.2, First Edition, January 1977, of the same title. This edition removes references to mass measurement applications and the 30-day recommended proving schedule. An analysis of a meterfactor control chart replaced the proving schedule.

11. MPMS, Chapter 5.3, Measurement of Liquid Hydrocarbons by Turbine Meters, Second Edition, November 1987, reaffirmed October 1992. This document replaces Chapter 5.3, Turbine Meters, First Edition, July 1976. This edition changes Appendix A by using the Darcy-Weisbach friction instead of the Fanning pipe friction factor.

12. MPMS, Chapter 5.4, Accessory Equipment for Liquid Meters, Second Edition, November 1987, reaffirmed October 1992. This document replaces Chapter 5.4, Instrumentation or Accessory Equipment for Liquid Hydrocarbon Metering Systems, First Edition, July 1976. The new edition expands the areas of electric pulse generation and use in automated counters/controls due to the large increase in flow computers and data transmission over the 10 year interim period. The new edition also adds a security section. This edition is generally a guideline on accessory equipment which cross references other chapters of MPMS for the actual standards.

13. MPMS, Chapter 6.1, Lease Automatic Custody Transfer (LACT) Systems, Second Edition, May 1991. This document replaces Chapter 6.1, LACT Systems, First Edition, February 1981. The MMS has determined that there are no significant differences between the two editions.

14. MPMS, Chapter 6.6, Pipeline Metering Systems, Second Edition, May 1991. This document replaces the First Edition, August 1981, of the same title. The MMS has determined that there are

no significant differences between the two editions.

15. MPMS, Chapter 6.7, Metering Viscous Hydrocarbons, Second Edition, May 1991. This document replaces the First Edition, January 1981, of the same title. The new edition recommends not using turbine meters for viscous hydrocarbons. Other changes are minor with regards to OCS activities.

16. MPMS, Chapter 8.1, Manual Sampling of Petroleum and Petroleum Products, Second Edition, October 1989. This document replaces the First Edition, October 1981, of the same title. The MMS has determined that there are no significant differences between the two editions.

17. MPMS, Chapter 10, Sediment and Water, Section 4—Determination of Water and Sediment in Crude Oils by the Centrifuge Method (Field Procedure), Second Edition, May 1988. The new document replaces Chapter 10.4, Standard Methods of Test for Water and Sediment in Crude Oils, First Edition, October 1977. The new edition includes information also contained in Chapter 10, Sections 1, 2, and 3. The new edition adds an appendix with personnel safety precautions to be taken while handling the oils and solvents.

18. MPMS, Chapter 14, Natural Gas Fluids Measurement, Section 3—Concentric, Square-Edged Orificed Meters, Part 1—General Equations and Uncertainty Guidelines, Third Edition, September 1990, available as ANSI/API 2530, Part 1, 1991, API Stock No. 852-30350, Part 2—Specification and Installation Requirements, Third Edition, February 1991, also available as ANSI/API 2530, Part 2, 1991, API Stock No. 852-30351, and Part 3—Natural Gas Applications, Third Edition, August 1992, available as ANSI/API 2530, Part 3, 1991, API Stock No. 852-30353. These three parts replace Chapter 14.3, all three parts incorporated by reference at § 250.181(c)(1). Orifice Metering of Natural Gas and Other Related Hydrocarbon Fluids, Second Edition, September 1985. These changes afford greater accuracy in measuring gas production.

19. MPMS, Chapter 14.6, Continuous Density Measurement, Second Edition, April 1991. This document replaces Chapter 14.6, Installing and Proving Density Meters Used to Measure Hydrocarbon Liquid with Densities between 0.3 to 0.7gm/cc at 15.56° (60 °F) and Saturation Vapor Pressures, First Edition, September 1979. The technical changes in the new edition reflect 10 years of improvements in the area of continuous density measurement.