

# Pressure Testing of Valves

Standard Practice  
Developed and Approved by the  
Manufacturers Standardization Society of the  
Valve and Fittings Industry, Inc.  
127 Park Street, NE  
Vienna, Virginia 22180-4602  
Phone: (703) 281-6613  
Fax: (703) 281-6671  
E-mail: [standards@msshq.org](mailto:standards@msshq.org)



[www.msshq.org](http://www.msshq.org)

This MSS Standard Practice was developed under the consensus of MSS Technical Committees 114, *Steel Valves*, and the MSS Coordinating Committee. The content of this Standard Practice is the resulting efforts of knowledgeable and experienced industry volunteers to provide an effective, clear, and non-exclusive standard that will benefit the industry as a whole. This MSS Standard Practice describes minimal requirements and is intended as a basis for common practice by the manufacturer, the user, and the industry at large. It is the responsibility of the user of this Standard Practice to establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use. The existence of an MSS Standard Practice does not in itself preclude the manufacture, sale, or use of products not conforming to the Standard Practice. Mandatory conformance to this Standard Practice is established only by reference in other documents such as a code, specification, sales contract, or public law, as applicable. MSS has no power, nor does it undertake, to enforce or certify compliance with this document. Any certification or other statement of compliance with the requirements of this Standard Practice shall not be attributable to MSS and is solely the responsibility of the certifier or maker of the statement.

*"Unless otherwise specifically noted in this MSS Standard Practice, other standards documents referred to herein are identified by the date of issue that was applicable to this Standard Practice at the date of issue of this Standard Practice (see Annex A). This Standard Practice shall remain silent on the applicability of those other standards of prior or subsequent dates of issue even though applicable provisions may not have changed."*

By publication of this Standard Practice, no position is taken with respect to the validity of any potential claim(s) or of any patent rights in connection therewith. MSS shall not be held responsible for identifying any patent rights. Users are expressly advised that determination of patent rights and the risk of infringement of such rights are entirely their responsibility.

For all MSS Standard Practices, the term "shall" means "must" and "shall not" means "must not".

In this Standard Practice, all text, notes, annexes, tables, figures, and references are construed to be "normative" and essential to understand the standard's message. All appendices and footnotes, or any other information denoted as "supplemental", that may be included within this Standard Practice, DO NOT involve mandatory or normative requirements.

The U.S. customary units and SI (metric) units in this Standard Practice are regarded separately as the standard; each should be used independently of the other. Combining or converting values between the two systems may result in non-conformance with this Standard Practice.

Substantive changes in this 2019 edition are "flagged" by parallel bars as shown on the margins of this paragraph. The specific detail of the change may be determined by comparing the material flagged with that in the previous 2013 edition.

Non-toleranced dimensions in the Standard Practice are nominal unless otherwise specified.

*Excerpts of this Standard Practice may be quoted with written permission. Credit lines should read 'Extracted from MSS SP-61-2019 with permission of the publisher, Manufacturers Standardization Society of the Valve and Fittings Industry'. Reproduction and/or electronic transmission or dissemination is prohibited under copyright convention unless written permission is granted by the Manufacturers Standardization Society of the Valve and Fittings Industry Inc. All rights reserved.*

Originally Published: February 1961

Current Edition Approved: September 2019

Current Edition Published: December 2019

MSS is a registered trademark of the Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.

Copyright ©, 2019 by  
Manufacturers Standardization Society  
of the  
Valve and Fittings Industry, Inc.

Printed in U.S.A.

## **FOREWORD**

This Standard Practice for Pressure Testing of Valves was originally adopted in 1961. It was developed for the purpose of providing a uniform means of testing valves commonly used in the "full open" and "full closed" type of service. For control valves, refer to standards ISA-75.19.01 and FCI 70-2, which may be more appropriate for control valve pressure testing.

With the identification of General Purpose, Special Service, and Severe Service Valves, an MSS Standard Practice has been recently introduced for supplementary high-pressure testing; namely, "Supplemental HP Gas Test Procedures for Valves". MSS SP-61 continues to be offered as a means of testing for all valves, regardless of criticality.

**CAUTION: Safety precautions must be taken when gas is used.**

This Page Intentionally Left Blank

Manufacturers Standardization Society of the Valve and Fittings Industry