Excess Flow Valves, NPS 1\(\frac{1}{4}\) and Smaller, for Fuel Gas Service

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
This MSS Standard Practice was developed under the consensus of the MSS Technical Committee 501 and the MSS Coordinating Committee. The content of this Standard Practice is the resulting efforts of competent and experienced 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 general public. 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 indicated otherwise within this MSS Standard Practice, other standards documents referenced to herein are identified by the date of issue that was applicable to this Standard Practice at the date of approval of this MSS Standard Practice (see Annex B). This Standard Practice shall remain silent on the validity 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.

In this Standard Practice, all text, notes, annexes, tables, figures, and references are construed to be essential to the understanding of the message of the standard, and are considered normative unless indicated as “supplemental”. All appendices, if included, that appear in this document are construed as “supplemental”. Note that supplemental information does not include mandatory requirements.

Substantive changes in this 2017 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 edition.

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

Excerpts of this Standard Practice may be quoted with permission. Credit lines should read ‘Extracted from MSS SP-115-2017 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 Approved: July 1995
Originally Published: August 1995
Current Edition Approved: June 2016
Current Edition Published: January 2017

Copyright ©, 2017 by
Manufacturers Standardization Society
of the
Valve and Fittings Industry, Inc.
Printed in U.S.A.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PURPOSE</td>
<td>1</td>
</tr>
<tr>
<td>1 SCOPE</td>
<td>1</td>
</tr>
<tr>
<td>2 DEFINITIONS AND ABBREVIATIONS</td>
<td>1</td>
</tr>
<tr>
<td>3 VALVE TYPES AND SIZES</td>
<td>2</td>
</tr>
<tr>
<td>4 SERVICE PRESSURE-TEMPERATURE RATINGS</td>
<td>2</td>
</tr>
<tr>
<td>5 MATERIALS</td>
<td>2</td>
</tr>
<tr>
<td>6 DESIGN</td>
<td>2</td>
</tr>
<tr>
<td>7 MARKING</td>
<td>3</td>
</tr>
<tr>
<td>8 DESIGN QUALIFICATION TESTING</td>
<td>3</td>
</tr>
<tr>
<td>9 PRODUCTION TESTING BY MANUFACTURER</td>
<td>5</td>
</tr>
</tbody>
</table>

**FIGURE**

A1 Snap-Acting Loads Test Setup | 7

**ANNEX**

A Snap-Acting Loads Test Setup Procedure | 7
| B Referenced Standards and Applicable Dates | 8 |
MSS Standard Practices (SPs) related to or referenced in this publication:

- ANSI/MSS SP-25  **Standard Marking System for Valves, Fittings, Flanges, and Unions**
- ANSI/MSS SP-96  **Guidelines on Terminology for Valves and Fittings**

American National Standards Published by MSS, an ANSI-accredited Standards Developer:

- ANSI/MSS SP-25  **Standard Marking System for Valves, Fittings, Flanges, and Unions**
- ANSI/MSS SP-44  **Steel Pipeline Flanges**
- ANSI/MSS SP-58  **Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation**
- ANSI/MSS SP-96  **Guidelines on Terminology for Valves and Fittings**
- ANSI/MSS SP-114  **Corrosion Resistant Pipe Fittings Threaded and Socket Welding Class 150 and 1000**
- ANSI/MSS SP-134  **Valves for Cryogenic Service, including Requirements for Body/Bonnet Extensions**
- ANSI/MSS SP-135  **High Pressure Knife Gate Valves**
- ANSI/MSS SP-138  **Quality Standard Practice for Oxygen Cleaning of Valves and Fittings**
- ANSI/MSS SP-144  **Pressure Seal Bonnet Valves**

*Do not violate copyright laws*

All Standard Practices are officially available only from MSS and through our authorized distributors:

---

**About MSS**

The Manufacturers Standardization Society (MSS) of the Valve and Fittings Industry is a non-profit technical association organized for development and improvement of industry, national and international codes and standards for Valves, Valve Actuators, Valve Modifications, Pipe Fittings, Flanges, Pipe Hangers and Supports, and Associated Seals. Since its establishment in 1924, MSS has been dedicated to developing standards for national and global applications, in cooperation with other standardizing bodies and regulatory authorities.

For more information on membership and eligibility requirements, visit:  http://msshq.org/Store/Membership.cfm

Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.
127 Park Street, NE, Vienna, VA 22180-4620 • Phone (703) 281-6613 • Fax (703) 281-6671

“The Technical Voice of the Industry”

MSS SP-115-2017