



Standard Guide for Squeeze-Off of Polyolefin Gas Pressure Pipe and Tubing¹

This standard is issued under the fixed designation F 1041; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide describes general procedures for squeeze-off of polyolefin gas pressure pipe and tubing. Pipe and squeeze tool manufacturers ~~should~~shall be requested to supply ~~specific~~specific recommendations for squeeze-off with ~~their~~ materials or products.

1.2 Governing codes and project specifications should be consulted. Nothing in this document should be construed as recommending practices or systems at variance with governing codes and project specifications.

1.3 This guide covers squeeze-off of polyolefin pipe and tubing in accordance with Specification D 2513.

~~1.4 Where applicable in this guide, "pipe" shall mean "pipe and tubing".~~

~~1.5 The values as stated in inch-pound units are to be regarded as the standard. The values in parentheses are given for information only.~~

1.4 Where applicable in this guide, "pipe" shall mean "pipe and tubing."

1.5 Units—The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are mathematical conversions to SI units, which are provided for information only and are not considered the standard.

1.6 *This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D 2513 Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings

F 1734 Practice for Qualification of a Combination of Squeeze Tool, Pipe, and Squeeze-Off Procedures to Avoid Long-Term Damage in Polyethylene (PE) Gas Pipe

2.2 *Other Standards:*

GRI-92/0147.2 Volume 2: Technical Reference on Squeeze-off of Polyethylene Gas Pipes³

3. Significance and Use

3.1 Squeeze-off is a technique used to control the flow of gas through a pipe by the compressing action of a mechanical or hydraulic device. Squeeze-off may be used to reduce the flow of gas to an acceptable ~~rate and under certain conditions complete stoppage of flow may be attained.~~rate.

3.2 Proper squeeze-off procedures result in significant time saving in the reduction of gas flow in an emergency and in the maintenance and operation, or both, of a gas distribution system. Improper squeeze-off can cause damage to the pipe or create a safety hazard, or both.

4. Operator Experience

4.1 Each squeeze-off shall be made in accordance with written procedures ~~that have been proven by test or experience in accordance with Practice F 1734, that have been proven~~ to produce safe squeeze-off. The person actually responsible for the squeeze-off shall ensure that detailed procedures are developed in conjunction with the owner of the pipe system, the manufacturer of the pipe, and the manufacturer of the squeeze-off tools. These procedures shall include safety precautions to be followed and are to be issued before actual squeeze-off operations commence.

¹This guide is under the jurisdiction of ASTM Committee F-17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.60 on Gas. Current edition approved Oct. 10, 1995. Published December 1995. Originally published as F 1041-87. Last previous edition F 1041-92.

²This guide is under the jurisdiction of ASTM Committee F17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.60 on Gas. Current edition approved March 1, 2008. Published June 2008. Originally approved in 1987. Last previous edition approved in 2002 as F 1041 - 02.

³Annual Book of ASTM Standards, Vol 08.04.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ GRI Document Fulfillment Center, 1510 Hubbard Dr. Batavia, IL 60510.