

**RECORD OF REVISIONS**

<b>Rev</b>	<b>Date</b>	<b>Description</b>	<b>POC</b>	<b>RM</b>
0	9/17/2014	Initial issue.	Ari Ben Swartz, <i>ES-EPD</i>	Larry Goen, <i>ES-DO</i>

**Contact the Standards POC for upkeep, interpretation, and variance issues.**

<b>Chapter 17</b>	<u><a href="#">Pressure Safety POC and Committee</a></u>
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This document is online at <http://engstandards.lanl.gov>

This document provides a listing of available Swagelok hose and flexible tubing styles and associated data<sup>1</sup> and indicates whether each is acceptable for code construction at LANL when used within its limits.

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<sup>1</sup> Swagelok information taken from publication MS-01-180, May 2011 R5. Variance VAR-2010-001.0 evaluated Swagelok (including the old brands of Whitey, Cajon, and Nupro) to meet the ASME B31.3 304.7.2 requirements, and Swagelok components (tubing, fittings, and valves only) are allowed for use in construction of new code compliant systems at LANL.

Section ASME - New ASME System Requirements  
Attachment ASME-4-2 Swagelok Flexhose

Rev. 0, 9/17/2014

Swagelok Flex Hose Series	ASME B31.3 Piping Component?	ASME B31.3-2010 Component Standard	Manufacturer Ratings Based on Code	Burst Pressure and Pressure Ratings as a Function of Temperature	Single Burst Test	No Burst Test	LANL-Wide Approval?	Additional Requirements
<b>FM</b>	Yes	BS 6501, Part 1	B31.1	No	NA	NA	Yes	None
<b>FJ</b>	Yes	BS 6501, Part 1	B31.3	No	NA	NA	Yes	None
<b>FL</b>	Yes	BS 6501, Part 1	B31.1	No	NA	NA	Yes	None
<b>CT</b>	Yes	BS 6501, Part 1	None	No	NA	Yes	<b>No</b>	See A323.2
<b>T</b>	Yes	ASTM F423	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2
<b>B</b>	Yes	ASTM F423	None	No	Yes	NA	<b>No</b>	See A323.2 and A323.2.4
<b>X</b>	Yes	ASTM F423	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2
<b>S</b>	Yes	ASTM F423	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2
<b>C</b>	Yes	ASTM F423	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2



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N	Yes	ASTM F423	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2
W	Yes	ASTM F423	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2
F	Yes	ASTM F423	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2
U	Yes	F781	None	Yes	NA	NA	Yes	MAWP based on temperature see A323.2
PFA	Yes	F781	None	No	NA	Yes	No	See A323.2
LT	Yes	Unlisted	None	No	Yes	NA	No	See A323.2 and A323.2.4
NG	Yes	Unlisted	None	No	Yes	NA	No	See A323.2 and A323.2.4
7R	Yes	Unlisted	None	No	Yes	NA	No	See A323.2 and A323.2.4
8R	Yes	Unlisted	None	No	Yes	NA	No	See A323.2 and A323.2.4
7N	Yes	Unlisted	None	No	Yes	NA	No	See A323.2 and A323.2.4
8N	Yes	Unlisted	None	No	Yes	NA	No	See A323.2 and A323.2.4

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7P	Yes	ASTM D2737	None	No	Yes	NA	No	See A323.2 and A323.2.4
PB	Yes	Unlisted	None	Yes	NA	NA	No	See A323.2 and A323.2.4

Some Consensus Standards on Flex Hoses (guidance)

88.	 <b>ASTM F423</b> Superseded by: NO REPLACEMENT <a href="#">Details</a>   <a href="#">History</a>	Withdrawn	1995.09.10	Standard Specification for Polytetrafluoroethylene (PTFE) Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
27.	 <b>ASTM F781</b> Superseded by: NO REPLACEMENT <a href="#">Details</a>   <a href="#">History</a>	Withdrawn	1995.01.01	Standard Specification for Perfluoro (Alkoxyalkane) Copolymer (PFA) Plastic-Lined Ferrous Metal Pipe and Fittings	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
6.	 <b>BSI BS 6501-1</b> Partially superseded by: <a href="#">BSI BS EN ISO 10380</a> <a href="#">Details</a>   <a href="#">History</a>	Active	2004.02.19 (R 2009)	Metal hose assemblies - Part 1: Guidance on the construction and use of corrugated hose assemblies	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>