Visual Index

How Seal-Lok Lite Fittings Work

The Seal-Lok Lite fitting body face contains a 70 durometer, Nitrile O-ring (N0674) that is held captive in a precision machined groove. As the nut is tightened onto the fitting body, the O-ring is compressed between the body and flat face of the tube flange or braze sleeve to form a tight, positive seal.

As the two faces come in contact, further tightening of the nut produces a sharp rise in assembly torque. A solid pull of the wrench at this point, to recommended assembly torque, completes the assembly. The sharp torque rise gives a "solid feel" at assembly, minimizing the possibility of over tightening.

Because the sealing surfaces are flat and perpendicular to the assembly pull, they remain virtually free of distortion during assembly, giving Seal-Lok Lite fittings practically unlimited remakeability. The O-ring should be inspected at each disassembly and replaced when necessary. See the O-ring section for replacement O-rings.

Flex Flange Assemblies

A unique feature of the Seal-Lok Lite fitting line is the adaptability to a line of light-duty flexible corrugated stainless steel tubes. The Flex Flange assembly is a complete flexible 316 stainless steel tube routing system. These factory pre-made assemblies are available in 3/8", 1/2", 3/4" and 1" tube sizes in a variety of assembly lengths.

The Flex Flange line offers working pressures up to 50 psig without permanently deforming the stainless corrugated assemblies. Flex Flange tube should not be used in applications:

- Where repeated movement or extreme vibration occurs
- Involving chlorides or salts
- As support for other components

Assembly and Installation

Please refer to Section T for the assembly and installation instructions for Seal-Lok™ Lite fittings.

International Acceptance

Versatility: The versatility of the Seal-Lok Lite fitting is shown in Figure 4. A single Seal-Lok Lite fitting will mate with inch and metric tube, hose (Push-Lok and GPH), and Flex Flange. The universal tube nut and fitting body are used with either inch or metric tube, thus saving on component costs. The fitting body without the nut and sleeve is very popular as a hose/Flex Flange adapter.

Tube Wall Thickness: Recommended maximum tube wall thicknesses for Seal-Lok Lite fittings are provided in Table B1.

Seal-Lok Lite Size	Max. Inch Tube Wall	Max. Metric Tube Wall
-6	0.035	1
-8	0.035	1
-12	0.049	1.5
-16	0.049	1.5

Note: For wall thicknesses outside the recommended range, contact the Tube Fittings Division.

Table B1 – Recommended Max. Tube Wall Thickness

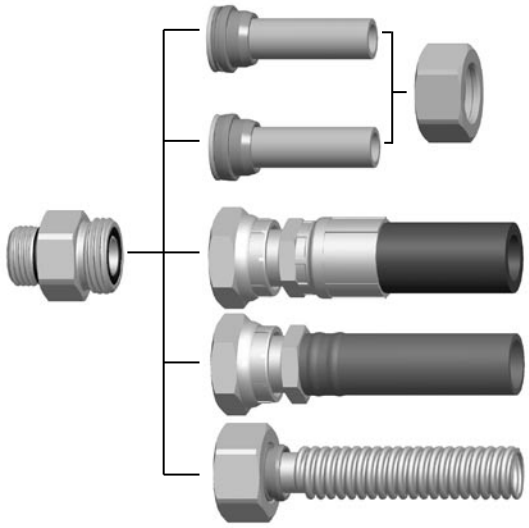

Fig. B4 – Seal-Lok Lite works with inch or metric tube, hose, and Flex Flange assemblies.

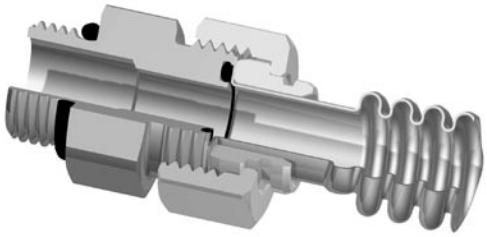

Fig. B5 – Seal-Lok Lite Flex Flange assembly.

Seal-Lok Fittings	Stainless Steel**	
	ASTM	Type
Forged Bodies	A182	316
Bar Stock Bodies	A479	316
Cold Formed Nuts	--	--
Machined Nuts*	A479	316
Braze Sleeves & Braze Connectors	A276	316L
Flange Sleeves	A479	316

Table B2 – Standard Material Specifications for Seal-Lok Lite Fittings

Dimensions and pressures for reference only, subject to change.