

clamping on the 37° taper provides a measure of elasticity to the joint helping it to resist loosening under vibration. The clamping force results in a small radial load that tends to deform the fitting nose radially. The resistance of the nose to elastic deformation provides a constant preload (similar to a lockwasher) keeping it tight.

The clamping force provided by the nut resists the opposing force of the fluid under pressure. The joint remains leak tight as long as the clamping force is higher than the opposing pressure load. Properly assembled Triple-Lok 2 fittings with appropriate tube will seal consistently under pressure until tube bursts.

Sealing in Triple-Lok 2 fittings takes place as the o-ring is compressed between the fitting body and the inside of the tube flare. The O-ring should be inspected at each disassembly and replaced when necessary. Seamless or welded and drawn fully annealed tube is recommended for Triple-Lok 2 fittings for ease in flaring and bending. Certain types of harder tubes that are not fully annealed may not be suitable for flaring due to the potential for immediate or long-term cracking of the tube flare. For specific tube type and wall thickness recommendations, please see [Table C7](#).

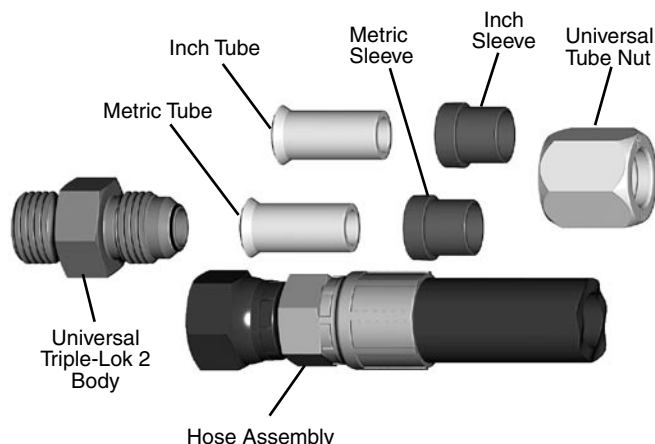


Fig. C6 – Triple-Lok 2's Adaptability to Inch Tube, Metric Tube, or Hose Assemblies

Assembly and Installation

Assembly and installation instructions are the same as Triple-Lok 2 and located in [Section T](#).

International Acceptance

To illustrate the versatility of Triple-Lok 2, refer to Fig. C6. A single 37° fitting body will accept both inch and metric tube sizes by simply changing the sleeve. Thus, a dedicated line of sleeves is offered for inch and metric tube. The universal tube nut and fitting body is used with either inch or metric tube, thus saving on component costs and making the Triple-Lok 2 fitting more versatile. Also, the fitting body without the nut and sleeve is very popular as a hose adapter.

Table C6 illustrates an even clearer picture of the flexibility of the Triple-Lok 2 Soft Seal 37° system. It shows every "convertible sleeve" connection for the 37° flare design. For example, if 25mm tube is being used, a -16 (1") Triple-Lok 2 37° Soft Seal flare fitting together with a 25mm (TXSS25) sleeve and a standard -16 (1") flare fitting nut would be all the necessary components to connect and seal a 25mm flared tube assembly.

Tube Wall Thickness – Inch and Metric

Minimum/Maximum tube wall thickness is based on the pressure holding capacity of the fittings and subject to maximum wall thickness limitations.

FITTING DASH SIZE	TUBE O.D.	METRIC TUBE SLEEVE PART #	NUT PART #
-4	6mm	TXSS6	4BTX-SS
-5	8mm	5 TX-SS	5BTX-SS
-6	10mm	TXSS10	6BTX-SS
-8	12mm	TXSS12	8BTX-SS
-10	14mm	TXSS14	10BTX-SS
-10	15mm	TXSS15	10BTX-SS
-10	16mm	10 TX-SS	10BTX-SS
-12	18mm	TXSS18	12BTX-SS
-12	20mm	20-12 TX-SS	20-12BTX-SS
-14	22mm	TXSS22	14BTX-SS
-16	25mm	TXSS25	16BTX-SS
-20	28mm	TXSS28	20BTX-SS
-20	30mm	TXSS30	20BTX-SS
-20	32mm	TXSS32	20BTX-SS
-24	35mm	TXSS35	24BTX-SS
-24	38mm	24 TX-SS	24BTX-SS

Table C6 – Triple-Lok 2 Convertible Sleeve Connections