

Application and

temperature range: Use with annealed copper, aluminum and Parflex thermoplastic tubing. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for application using gaseous media. Temperature range is from -65° to +250°F with soft metal tubing. For thermoplastic tubing, use manufacturer’s recommendation for temperature range.

Working Pressure Ranges:

PSI	Tube O.D. (in.)	Tube Wall (in.)
400	1/8	0.030
400	3/16	0.030
300	1/4	0.030
300	5/16	0.032
200	3/8	0.032
2000	1/2	0.032
150	5/8	0.035
100	3/4	0.035
75	7/8	0.035

For thermoplastic tubing, use manufacturer’s recommendation for pressure range.

Features:

- Manufactured from CA 360, CA 635 or CA 377 brass.
- No flaring, soldering or other preparation of tubing is necessary to assemble.
- Meet functional requirements of SAE J-512.

Assembly Instructions:

1. Slide nut, the sleeve onto tubing. The thread end of the nut must face out.
2. Insert the tube into the fitting. Be sure the tube is bottomed on the fitting shoulder.
3. Assemble nut to body, and tighten “hand tight”. Then follow the number of wrench turns as indicated in the following table.

Fitting Size	Tube Size	Turns required to seal from hand-tight	
		60C with soft metal tubing	60PT with thermoplastic tubing
2	1/8	1-1/4	–
3	3/16	1-1/4	–
4	1/4	1-1/4	2
5	5/16	1-1/4	2
6	3/8	2-1/4	2
8	1/2	2-1/4	2
10	5/8	2-1/4	2
12	3/4	2-1/4	2
14	7/8	2-1/4	–

10

Applications: Use with copper, brass, aluminum and welded steel hydraulic tubing that can be flared. Manufactured for especially hard-to-hold liquids and gases.

Working Pressure and Temperature Ranges: Temperature ranges from -65° to +250°F. Pressure ranges will depend on the type of tubing. The chart below shows the pressure range at 73°F with copper tubing as a guide for proper selection.

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	0.030
1900	3/16	0.030
1400	1/4	0.030
1200	5/16	0.032
1000	3/8	0.032
750	1/2	0.032
650	5/8	0.035
550	3/4	0.035
450	7/8	0.035

Features:

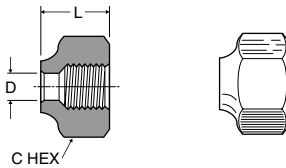
- Manufactured from CA 360, CA 345 or CA 377 brass.
- Meets functional requirements of SAE J512 and J513, ASA and MS (military standards)

Assembly Instructions:

1. Cut tubing squarely and clean tube end to remove burrs.
2. Place nut onto tube. The short nut may be used when vibration is minimal, the long nut offers additional vibration capacity.
3. Flare tube end with flaring tool to provide 45° flare.
4. Clamp tube flare between nut and nose of fitting body by screwing nut on finger-tight. Tighten with a wrench an additional ¼ turn for a metal-to-metal seal.

SHORT FORGED NUT

SERIES 14FSX



Part No.	Tube Size	Straight Thread	C Hex	D	L
14FSX-4	1/4	7/16-20	5/8	.257	.63
14FSX-6	3/8	5/8-18	13/16	.382	.74
14FSX-8	1/2	3/4-16	15/16	.507	.86
14FSX-10	5/8	7/8-14	1-1/16	.632	.97
14FSX-12*	3/4	1-1/16-14	1-5/16	.757	1.17

* Comes standard with thread protectors