



# SYNRAD Product Change Notice

PCN #: 003-2013

ECO #: DA1798

Date: 27 February 2013

Product P/N: Firestar FSi401SB; serial numbers i401057130013 and later

## Description of Change: Metric (12 mm) cooling port fittings

Effective 27 February 2013, all Firestar i401 lasers (beginning with serial number i401057130013) will ship with 12 mm **metric** cooling fittings instead of the original 1/2 inch fittings. In addition, the i401 laser ship kit will include 12 mm **metric** polyethylene tubing to complete the cooling path to your chiller. The new 12 mm tubing is colored clear to distinguish it from the black 1/2 inch tubing shipped previously.

If it is necessary to use 1/2 inch tubing for system compatibility purposes, you have the option of (1) installing metric-to-1/2 inch tubing adaptors on the existing 12 mm fittings or (2) removing the 12 mm Tri Thread fittings from the laser's cooling manifold and installing 1/2 inch Tri Thread fittings.

- (1) 12 mm-to-1/2 inch tubing adaptors are not available from most fitting suppliers as a stock item; however, a push-to-fit 12 mm-to-1/2 inch tubing adaptor is sold by McMaster-Carr Supply Company ([www.mcmaster.com](http://www.mcmaster.com)), McMaster-Carr part number 51495K416.
- (2) The i401 ship kit includes two Tri Thread 1/2 inch tubing fittings (identified by white release collets). To install them, first use a 13/16" or 20 mm open-end or box wrench to remove the 12 mm tubing fittings (identified by a black release collet). When installing the 1/2 inch Tri Thread fittings, turn the fitting **by hand** until the O-ring contacts the face of the cooling manifold and then use a wrench to tighten the fitting an additional 1/4 turn clockwise (CW).

Tri Thread Universal Thread Fittings ([www.pneuforce.com](http://www.pneuforce.com)) are designed to seal on the face of the O-ring, which allows them to seal properly even when re-used. For this reason, do not over-tighten Tri Thread fittings and do not install any other type of fitting into the i401 cooling manifold. If 90° swivel elbow connectors are desired to save space, Pneuforce P/N PL12-U03 is a suitable replacement for 12 mm tubing applications while PL1/2-U03 is the equivalent for 1/2 inch tubing.

For further information contact SYNRAD at 1.800.796.7231; outside the U.S., dial +1.425.349.3500 or email to: [synrad@synrad.com](mailto:synrad@synrad.com).