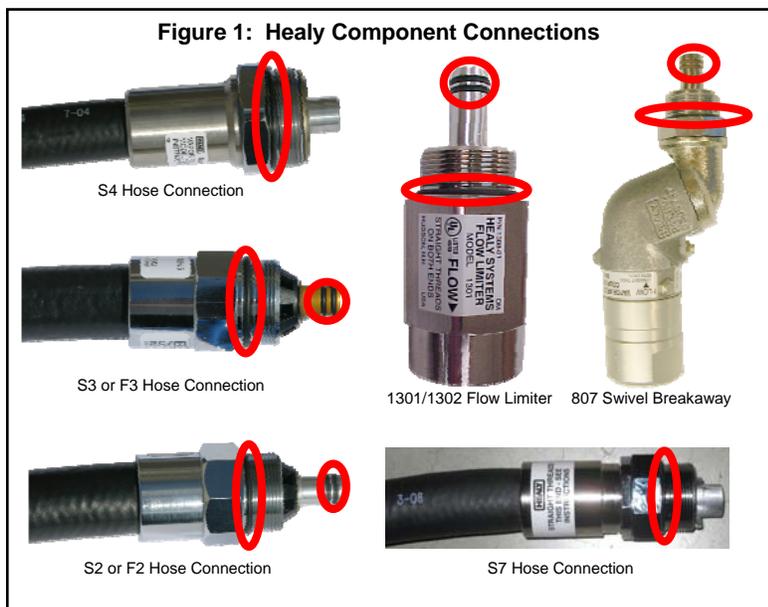


## Healy Straight Threaded Connections

This bulletin provides a better understanding of the proper connection techniques between Healy straight threaded, balance threaded, and metric threaded components listed in Healy California Air Resources Board (CARB) Executive Orders (EO).

When a connection is made between a Healy straight threaded component like breakaways/flow limiters/curb hoses/whip hoses/Healy nozzles, the use of motor oil (any weight) as a lubricant on any o-rings or quad rings is required. It is also required to lubricate the o-rings on non-Healy straight threaded components. These components include the S4 balance, S3 metric, F3 metric, and S7 700 Series fittings. The use of lubricants, grease, or anything other than motor oil is not allowed on these connections. In Figure 1 see that the circled o-rings and quad rings are properly lubricated.

After proper lubrication, verify the threads and fittings are free of debris. Inspect all the o-rings and quad rings to confirm no damage is present. Align the male connection with the female connection, insert the vapor tube into the female connection, and slowly tighten. Make sure to not pinch or damage the o-rings or quad rings. Last use an open-ended crowfoot wrench that can accomplish a torque value of 35-70 foot pounds on Healy straight threaded components. Refer to figure 2 for an example.



**Figure 2: Open Ended,  
Crowfoot Wrench**

For complete details on proper installation of Healy components please refer to the appropriate Executive Order on the California ARB website: [www.arb.ca.gov/vapor/vapor.htm](http://www.arb.ca.gov/vapor/vapor.htm) for the most current Healy Vapor Recovery system information. Contact Franklin Fueling Systems Technical Support at 800-984-6266 for further information.

Sincerely,

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Dispensing Systems