



Fuels Safety Program	Ref. No.: FS-210-14	Rev. No.:
ADVISORY	Date: April 7, 2014	Date:

Subject: Flare Nuts (B149.1-10, 6.2.5)
Sent to: Posted on Web-Site and Distributed to Natural Gas RRG and Advisory Council

Splitting of extruded flare nuts had been experienced in the field in the early 2000s. At that time it was assumed that flare nuts that were externally machined were also always extruded, and therefore not suitable for use. Similarly, it was also assumed that forged flare nuts were never machined, making them always acceptable for use. To address this problem, as of January 1, 2006, clause 6.2.5 of CSA B149.1-05 required flare nuts to be forged.

Since then, it has been discovered that many forged flare nuts available for purchase were in fact machined. It is impossible without laboratory testing to determine if flare nuts were forged or extruded.

To clarify the matter clause 6.2.5 was revised again in the CSA B149.1-10 to require flare nuts to be forged from UNS C37700 brass and not to be externally machined. This new requirement became effective on December 1, 2012 when the CSA B149.1-10 was adopted in Ontario.

Requirements:

1. Externally machined flare nuts installed prior to December 1, 2012 are not required to be replaced unless they leak or an appliance is being replaced.
2. Subsequent to December 1, 2012 when replacing an appliance, any non-compliant flare nut used at the point of appliance connection shall be replaced (other flare nuts are not required to be replaced).
3. As flare nuts might not be marked to confirm compliance with clause 6.2.5, it is the responsibility of the installer to ensure that flare nuts are Code-compliant and to provide proof of compliance upon request

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