

## Goodyear / Campbell Crimped Steam System vs. Clamped Hose Assemblies

The primary advantage crimped steam has over traditional bolt clamps is hose retention and sealing.

- Ferrules exert a uniform pressure over the length and circumference of the portion of the hose they cover.
- Ferrules eliminate the pronounced leak path created between the clamshell sections of a bolt clamp.
- Leaks create SIGNIFICANT energy waist, increase energy use in process and add to thermal and air quality environmental issues\*.
- The RMA recommends that clamps be “tightened during use in order to compensate for rubber flow and compression set”. Ferrules do not require retightening.
- Clamped hose assemblies require additional grounding to assure electrical continuity. Bite to the wire crimped steam hoses create and maintain electrical continuity for the life to the hose.
- Clamps are heavy and awkward. They snag when the hose is being positioned and are difficult to grip when the hose is being installed.
- Clamps contribute to burn, hose whip and shock accidents.

\* At a cost of \$11.00 per 1000 lbs of steam a leaking 3/4” steam coupling will lose as much as \$6,200 in a 5 month steam season.

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# **Campbell Fittings**

## **Viton® Seal Ground Joint Coupling**

eliminates leaks, improves safety  
and saves money



### Cost of a small leak:

**Steam loss:**  
**2.6 lbs. / min.**

- • Production cost:
- **\$11.00 / lb.**
- • 1 day cost:
- **\$41**
- • 1 week cost:
- **\$287**
- • 1 month cost:
- **\$1250**

**If the average steam season lasts 5 months, that's \$6200 of steam hissed away for each and every coupling!**



Steam leak at the coupling /spud connection



Steam leak at the coupling / clamp

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