VT-0030	001	08-11	BBK/SJB

PROPER USE OF THREAD SEALANT TAPE

Chart Inc. (formally NexGen Fueling) has approved nickel Teflon tape as a sealant and anti-seize compound for pipe threads on vehicle tanks.

This procedure outlines proper servicing procedures to follow when using this type of thread sealant. Two types of nickel tape (nickel coated and nickel impregnated) are available. Both types are acceptable and are available from a variety of vendors. The nickel-impregnated tape is available from Chart Inc. P/N 11811511.

Follow this procedure for best results when removing and/or installing the tape used on pipe threads and fittings.

Removal and Cleaning

Warning:

Be sure to isolate and remove fuel and pressure from the system before servicing.

Note: Always use two wrenches when removing or installing a threaded joint containing tape or any other type of sealant to ensure that the threaded seal on downstream piping is not disturbed when fittings are removed or installed.

1) Remove fitting from system

   Note: Ensure no pieces or strings of old tape fall down into components when removing fittings.

2) Purge components and piping with nitrogen gas to remove debris.

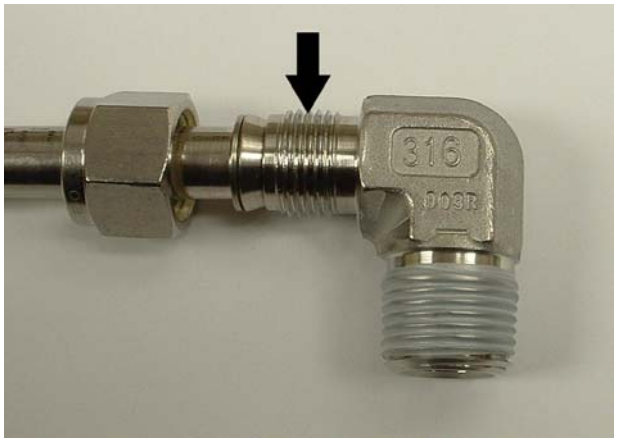
Note: Chart Inc. recommends replacing rather than reusing fittings. Threads on old fittings must be properly cleaned if old fittings are to be reused. Use a hand brass wire brush to gently clean the old tape, corrosion, or dirt from the threads. Do not use a mechanically operated wire wheel to clean the threads, since this can permanently damage the threads.

Installation

3) Once the threads are clean ensure they are close to ambient temperature and dry.

   Note: Tape applied to cold or wet threads will cause moisture to be retained under the tape, jeopardizing sealing capabilities. Tape applied to cold or wet threads may also slip and spin on the thread surface during the application and fitting installation process.

Note: Do not use tape on compression type fittings. Refer to Photograph 1 for an example of a compression type fitting.



Photograph 1

Note: When viewing the fitting or pipe from the threaded end, install tape onto threads in the direction of the threads (clockwise for right hand threads, counterclockwise for left hand threads).

This procedure is for use by trained mechanics with experience on systems using Liquefied Natural Gas. All station and system safety documents are to be reviewed and applied to this procedure.

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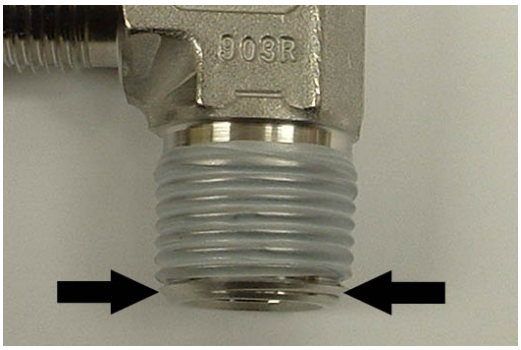
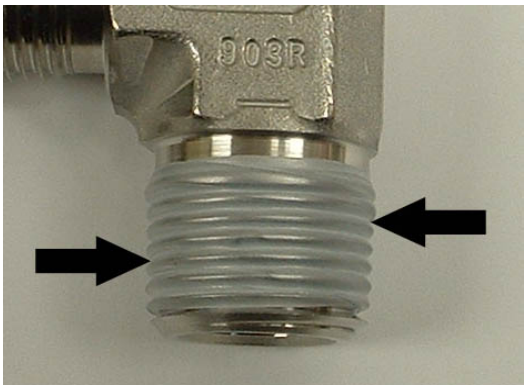
4) Align the edge of the tape with the second thread so that the first thread is exposed. Refer to Photograph 2 for how first thread should appear.



Photograph 2

5) Hold the end of the tape on the threaded surface and gently pull the tape down into the threads, keeping the tape under tension so the tape moulds itself into the root of the threads. Refer to Photograph 3 for how tape should appear in the threads.



Photograph 3

Note: Two wraps of tape are sufficient for pipes and fittings ½" and under. Three wraps should be used for pipes and fittings between ⅝" to 1".

Ensure the last section of tape is pulled down tight and there are no loose edges.

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