



Head Quarters and Factory

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Phone: 82) 55-338-0114, Fax: 055-901-0142

August 18, 2016

To Whom It May Concern

**Subject: DK-Lok® Liability Statement with Intermixed Swagelok® components**

DK-Lok warrants that DK-Lok fittings are free from defects in materials and workmanship.

The nut and body threads on DK-Lok Fitting OD are constructed in accordance with ASME B1.1 and the thread tolerances are controlled as specified in ASME B1.1. This tolerance ensures consistent make-up distance.

DK-Lok Tube Fitting NPT male and female threads are constructed in accordance with ASME B1.20.1 and are roll threaded by a cold working. DK-Lok cold formed threads are approximately 30% stronger than a comparable cut thread.

DK-Lok ferrule bores are designed and gauged to the allowable OD tolerance specified in ASTM A249, ASTM A269 and ASTM A450. This ensures consistent seal onto the surface of the tubing.

DK-Lok sealing system finishes are closely measured and controlled Ra (micro-finish) in accordance with the requirements of ASME B46.1. DK-Lok fine finish ensures a leak-tight seal on gas and vacuum. The pressure ratings of DK-Lok Tube Fittings are calculated and published in accordance with ASME B31.3 process piping code and ASME B31.1 power piping code.

DK-Lok Tube Fittings provide a metal to metal seal with the tubing when fitting is pulled up in which the DK-Lok front & rear ferrule are deformed for full surface contact by elasticity. The elasticity is closely controlled.

We hereby confirm that DK-Lok Tube Fittings are interchangeable with Swagelok® in threads, make-up distance, bore, sealing integrity, surface finish, design and pressure ratings. DK-Lok guarantees the DK-Lok Tube Fitting assembly when mixed with Swagelok as a safe & leak-tight seal, as if it were our own.



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Please note that this only relates to Swagelok® components of the same size and material, which are properly assembled and used in accordance with the published DK-Lok catalog information.

We offer this intermix guarantee publicly to the marketplace based upon TUV Rhineland witnessing of intermix test results between DK-Lok and Swagelok® components in accordance with ASTM F1387-99(2005).

Sincerely yours

A handwritten signature in black ink, appearing to read "H. S. Kim", is written over a light blue rectangular background.

**H.S. (Steve) Kim, Ph. D.**

President

DK-Lok Corporation