

# CERTIFICATE



**TÜVRheinland®**  
Precisely Right.

**Certificate Number: AF-2009-0903\_01 extended (3)**

**TÜV Rheinland hereby certifies**

**Manufacturer's name and address:** DK-LOK Corporation  
7, Golden Root-Ro 129 Beon-Gil  
Juchon-Myeon  
Gimhae SiCity  
Gyeongsangnam-Do (Korea)

**Trade name or mark:** Dk-Lok

**Type:** tube fittings

**Component:** as per attachment to this certificate

**Service Pressure:** Class 0 as per applicable regulation,  
reference is made to manufacturer's  
recommendations

**fully complies with the requirements of the:**

- ECE Regulation 110
- ECE Regulation 67-01
- Draft ECE Compressed Gaseous Hydrogen Regulation, Revision 12b, 10/12/03
- ISO 15500-19
- ISO 15916
- ANSI/AGA NGV3.1-1995, CGA NGV 12.3-M95
- ANSI/AGA NGV4.1-1999, CSA 12.5-M99
- State of the art

**Date of certification:** 09/03/2009

**Expiry Date:** 06/26/2017

Sulzbach, 2015-11-27

Dr.-Ing. Stefan Behring,  
Inspector, legally licensed technical expert



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**Attachment 1/2 to**

**Certificate Number: AF-2009-0903\_01**

Material: Stainless Steel 316 (1.4401)

Proven secure assemblies / disassemblies: 20 times

Dimensions of the tubes to be used  
as approved by the manufacturer:

| Tubes [inch] | Tubes [mm] |
|--------------|------------|
| 1/16 x ...   | 3 x ...    |
| 1/8 x ...    | 6 x ...    |
| 3/16 x ...   | 8 x ...    |
| 1/4 x ...    | 10 x ...   |
| 5/16 x ...   | 12 x ...   |
| 3/8 x ...    | 14 x ...   |
| 1/2 x ...    | 15 x ...   |
| 5/8 x ...    | 16 x ...   |
| 3/4 x ...    | 18 x ...   |
| 7/8 x ...    | 20 x ...   |
| 1 x ...      | 22 x ...   |
| 1 1/4 x ...  | 25 x ...   |
| 1 1/2 x ...  | 28 x ...   |
| 2 x ...      | 30 x ...   |
|              | 32 x ...   |
|              | 38 x ...   |

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Attachment 2/2 to

Certificate Number: AF-2009-0903\_01 (Cont.)

Dk-Lok Fittings:

| Tube to Tube Union                   | Tube to Female Pipe                 | Male Pipe       | Tube Stub Connector |
|--------------------------------------|-------------------------------------|-----------------|---------------------|
| DU                                   | DCF-N                               | DMC-N           | DR                  |
| DL                                   | DCF-R                               | DMC-R           | DAB                 |
| DT                                   | DCF-GG                              | DMC-G           | DAM-N               |
| DX                                   | DCBF-N                              | DMC-GB          | DAM-R               |
| DUB                                  | DLF-N                               | DMCB-N          | DAM-G               |
| DBL                                  | DTRF-N                              | DLBM            | DAM-U               |
| DUR                                  | DTBF-N                              | DLM-N           | DAM-UO              |
| DLR                                  |                                     | DLM-R           | DAF-N               |
| DXR                                  |                                     | DTRM-N          | DAF-R               |
| DTR                                  |                                     | DTRM-R          | DAF-GR              |
|                                      |                                     | DTBM-N          | DAF-GG              |
|                                      |                                     | DTBM-R          | DLA                 |
|                                      |                                     |                 | DTRA                |
| <b>Plug, Cap</b>                     |                                     |                 | DTBA                |
| DP                                   |                                     |                 | DCP                 |
| DC                                   |                                     |                 | DCRP                |
|                                      |                                     |                 |                     |
| Tube to Positionable Straight Thread | Tube to Non-Positionable O-seal End | Tube to an Tube | Tube to Weld End    |
| DLS-UP                               | DMC-UO                              | DUA             | DCW                 |
| DLBS-UP                              | DMC-NO                              | DUBA            | DLW                 |
| DTRS-UP                              | DMCS-U                              | DMAA            | DCSW                |
| DTBS-UP                              |                                     | DAA             | DLSW                |
| DLM-GP                               |                                     |                 | DBUW                |

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