

Type Approval Certificate Extension

This is to certify that Certificate No. 01/10048 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	DK Tech Corporation																							
PLACE OF PRODUCTION	826, Naesam-ri, Juchon-myeon, Gimhae-city, Gyeongsangnam-do, 621-841 Korea																							
DESCRIPTION	Carbon steel and stainless steel single compression type tube fittings, inch and metric sizes																							
TYPE	DK Bite Type Fitting																							
APPLICATION	High pressure tube connections for use in marine, offshore and industrial piping systems with hydraulic system fluids, fuel oil, lubricating oil, fresh water, salt water, sanitary, gas, steam and condensate.																							
DESIGN CODE	Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12 – July 2006 JIS B 2351 – 1990: 25 MPa bite type tube fittings for hydraulic use																							
RATING	<table border="0"> <tr> <td colspan="2">Imperial Tubing:-</td> </tr> <tr> <td style="text-align: center;"><u>Tube O.D. (inch)</u></td> <td style="text-align: center;"><u>Normal pressure ratings (kgf/cm²)</u></td> </tr> <tr> <td style="text-align: center;">1/8"</td> <td style="text-align: center;">500</td> </tr> <tr> <td style="text-align: center;">1/4"</td> <td style="text-align: center;">500</td> </tr> <tr> <td style="text-align: center;">3/8"</td> <td style="text-align: center;">400</td> </tr> <tr> <td style="text-align: center;">1/2"</td> <td style="text-align: center;">400</td> </tr> <tr> <td style="text-align: center;">3/4"</td> <td style="text-align: center;">350</td> </tr> <tr> <td style="text-align: center;">1"</td> <td style="text-align: center;">250</td> </tr> <tr> <td style="text-align: center;">1-1/4"</td> <td style="text-align: center;">210</td> </tr> <tr> <td style="text-align: center;">1-1/2"</td> <td style="text-align: center;">210</td> </tr> <tr> <td style="text-align: center;">2"</td> <td style="text-align: center;">210</td> </tr> </table>		Imperial Tubing:-		<u>Tube O.D. (inch)</u>	<u>Normal pressure ratings (kgf/cm²)</u>	1/8"	500	1/4"	500	3/8"	400	1/2"	400	3/4"	350	1"	250	1-1/4"	210	1-1/2"	210	2"	210
Imperial Tubing:-																								
<u>Tube O.D. (inch)</u>	<u>Normal pressure ratings (kgf/cm²)</u>																							
1/8"	500																							
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1/2"	400																							
3/4"	350																							
1"	250																							
1-1/4"	210																							
1-1/2"	210																							
2"	210																							

Certificate No.	01/10048(E1)
Issue Date	28 June 2006
Expiry Date	27 June 2011
Sheet	1 of 2



N. Terashita
Yokohama Design Support
& Plan Approval Department
Lloyd's Register Asia

Lloyd's Register Asia, registered office:
71 Fenchurch Street, London EC3M 4BS

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RATING
(Continued)

Metric Tubing: Tube O.D.(mm)	Nominal pressure ratings (kgf/cm ²)
3	500
4	500
6	500
8	500
10	500
12	500
16	400
18	400
20	400
22	400
25	350
28	350
32	250
38	250
40	210
42	210

Pressure-temperature ratings : see the producer's catalogue

**OTHER
CONDITIONS**

- 1) The fittings are to be installed in accordance with the manufacturer's instructions.
- 2) Attention is drawn to Section 3.6 of IMO MSC/Circular.851 - Guidelines on Engine-Room Oil Fuel Systems which describes that compression couplings require careful attention to tightening procedures and torques to avoid leaks or damage to the pipe when subjected to overtightening and they should not be used in the fuel supply line of the (oil engine) injection pumps and spill system.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Asia of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 01/10048(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 01/10048 to which this extension should be attached.

Certificate No. 01/10048(E1)
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