



CERTIFICATE NUMBER

05-BK127633-PDA

DATE

09 November 2005

ABS TECHNICAL OFFICE

Busan Engineering Services

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Union Metal Industrial Co., Ltd.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Tube fitting and Valve

MODEL: Union (UU), Male Connector (UMC) & Needle Valve (SNVU)

ABS RULE: 2005 Steel Vessel Rules 4-6-2/5.13, 4-6-2/5.15 & 4-6-2/5.5.6

OTHER STANDARD: Not Applicable; Not Applicable; Not Applicable; Not Applicable; ASTM A182 F316 & JIS B-1990(Sec. 5.3.3);

AMERICAN BUREAU OF SHIPPING

Jae Deok Lee

Engineering Type Approval Co-ordinator

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of American Bureau of Shipping or a statutory, industrial or manufacturer's standard and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without ABS approval will result in this certificate becoming null and void. This certificate is governed by the terms and conditions on the reverse side hereof.

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