



BUREAU
VERITAS

CERTIFICATE

TA-Luft VDI 2440, Sec. 3.3.1.3, November 2000

The undersigned, B.H. Juang acting with the scope of the General Condition of the Industrial Branch of Bureau Veritas, certifies that the supplies:

Drawing No. : MD-28-P005 Rev.01
Type of valves : 2-PC Flanged End Full Port Ball Valve
Pressure rating : CLASS 150
Nominal size : 1-1/2 inch x 1 piece

Material

(a) Body : ASTM A351Gr.CF8M
(b) Stem : SS316
(c) Seat : RTFE

Inspected at Lung-Tan, Taiwan on July 05 ~ 10, 2012

Upon request of : KEVIN STEEL CORPORATION

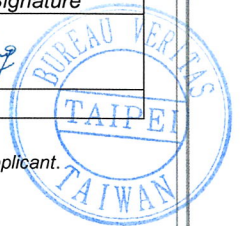
Intended for : KEVIN STEEL CORPORATION

Inspected in conformity with the applicable requirements of the leak tightness tests of ball valves were according to **TA-Luft VDI 2440 Sec.3.3.1.3, November 2000** requirements and contractual requirements governing the mission entrusted to Bureau Veritas.

The leak tightness tests of ball valves were measured by Helium Leakage Detector. (Model: VS PRO2/Vacuum mode at room temperature) Please see annex for the test results.

Etabli à / Issued at	Le / On	Signé par / Signed by	Signature / Signature
Taipei, Taiwan	Aug. 20, 2012	BH Juang	
Registration code : TPI12049			

This certificate is subject to the terms of Bureau Veritas General Conditions of Service attached to the agreement signed by the applicant.





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Annex to the certificate

Registration code : TPI12049

Identification list of test results

Test specimens	Allowable	Leakage rates	Operating cycles	Test Pressure	Stem Turning
Class 150	6.53×10^{-6}	8.5×10^{-7}	5,000	19.3 kgf/cm ²	11.36 N*m
Class 150	6.53×10^{-6}	8.0×10^{-7}	10,000	19.3 kgf/cm ²	11.36 N*m

