



**BUREAU
VERITAS**

CERTIFICATE OF INSPECTION NO.:TPI03033-1 R

Issuing Center : Taipei, Taiwan
Supplier/Address : HAITIMA CORPORATION
8F, No.201, Tiding Building,
Sec.2, Neihu Area, Taipei 114,
Taiwan R.O.C.

The undersigned, S. H. Lee acting with the scope of the General Condition of the Industrial Branch of Bureau Veritas, certifies that the supplies

Valve Drawing No. : 2013 KM00004-01
Type of Valve : Socket/Butt weld/Screwed/Flanged End 3pcs Ball Valve 2000WOG
Pressure rating : Class #600
Nominal size : 1/2 inches x 1 piece
Material : 1
(a) Body : WCB
(b) Ball : A351CF8M
(c) Seat : PTFE
(d) Packing : GRAPHITE
(e) Body Seal : GRAPHITE

Inspected at Lung-Tan, Taiwan

On 12th Oct. 2003

has been upon request of : HAITIMA Corporation

Intended for : HAITIMA Corporation

Inspected in conformity with the applicable requirements of the valve fire test per API standard 607 4th editions 1993 and contractual requirements governing the mission entrusted to Bureau Veritas.

Made at Taipei, Taiwan on 12th October 2003

Signature S. H. Lee *Edward F. Lee*
Surveyor to Bureau Veritas

Addition qualification of other valves, covered by the valves tests according to API standard 607 4th editions 1993.

The qualification of ANSI Class : 600, 800 & 900

The qualification of Sizes : 1/4", 3/8", 1/2" & 3/4"

Manufacture : HAITIMA CORPORATION

Particular mentions : The test result of valve fire test is passed.
Test report of valve fire test attached





**BUREAU
VERITAS**

CERTIFICATE OF INSPECTION NO.:TPI03033-2 R

Issuing Center : Taipei, Taiwan
Supplier/Address : HAITIMA CORPORATION
8F, No.201, Tiding Building,
Sec.2, Neihu Area, Taipei 114,
Taiwan R.O.C.

The undersigned, S. H. Lee acting with the scope of the General Condition of the Industrial Branch of Bureau Veritas, certifies that the supplies

Valve Drawing No. : 2013 KM00003-01
Type of Valve : Socket/Butt weld/Screwed/Flanged End 3pcs Ball Valve 2000WOG
Pressure rating : Class #600
Nominal size : 1 inches x 1 piece
Material : 1
(a) Body : WCB
(b) Ball : A351CF8M
(c) Seat : PTFE
(d) Packing : GRAPHITE
(e) Body Seal : GRAPHITE

Inspected at Lung-Tan, Taiwan

On 12th Oct. 2003

has been upon request of : HAITIMA Corporation

Intended for : HAITIMA Corporation

Inspected in conformity with the applicable requirements of the valve fire test per API standard 607 4th editions 1993 and contractual requirements governing the mission entrusted to Bureau Veritas.

Made at Taipei, Taiwan on 12th October 2003

Signature S. H. Lee

Surveyor to Bureau Veritas

Addition qualification of other valves, covered by the valves tests according API standard 607 4th editions 1993.

The qualification of ANSI Class : 600, 800 & 900

The qualification of Sizes : 3/4", 1", 1 1/4" & 1 1/2"

Manufacture : HAITIMA CORPORATION

Particular mentions : The test result of valve fire test is passed.
Test report of valve fire test attached





**BUREAU
VERITAS**

CERTIFICATE OF INSPECTION NO.:TPI03033-3 R

Issuing Center : Taipei, Taiwan
Supplier/Address : HAITIMA CORPORATION
8F, No.201, Tiding Building,
Sec.2, Neihu Area, Taipei 114,
Taiwan R.O.C.

The undersigned, S. H. Lee acting with the scope of the General Condition of the Industrial Branch of Bureau Veritas, certifies that the supplies

Valve Drawing No. : 2013 KM00001-01C
Type of Valve : Socket/Butt weld/Screwed/Flanged End 3pcs Ball Valve 1500WOG
Pressure rating : Class #600
Nominal size : 2 inches x 1 piece
Material : 1
(a) Body : WCB
(b) Ball : A351CF8M
(c) Seat : PTFE
(d) Packing : GRAPHITE
(e) Body Seal : GRAPHITE

Inspected at Lung-Tan, Taiwan

On 12th Oct. 2003

has been upon request of : HAITIMA Corporation
Intended for : HAITIMA Corporation

Inspected in conformity with the applicable requirements of the valve fire test per API standard 607 4th editions 1993 and contractual requirements governing the mission entrusted to Bureau Veritas.

Made at Taipei, Taiwan on 12th October 2003

Signature S. H. Lee *Edward Lee*
Surveyor to Bureau Veritas

Addition qualification of other valves, covered by the valves tests according API standard 607 4th editions 1993.

The qualification of ANSI Class : 600, 800 & 900
The qualification of Sizes : 1 1/2", 1", 2 1/2" and 3"

Manufacture : HAITIMA CORPORATION
Particular mentions : The test result of valve fire test is passed.
Test report of valve fire test attached



TEST REPORT

VALVE FIRE TEST
DOWNSTREAM SEALING (FLOATING) BALL VALVE

PER API STANDARD 607, FOURTH EDITION

SIZE AND RATING: 4.00" - CLASS 300

VALVE MODEL NO.: 2013KM

SwRI TEST NO.: 6-881

PREPARED FOR: HAITIMA CORPORATION
8F, NO. 201, TITING BLVD.,
SEC. 2, NEIHU AREA
TAIPEI, TAIWAN R.O.C.



SOUTHWEST RESEARCH INSTITUTE™

SAN ANTONIO
DETROIT

HOUSTON
WASHINGTON, DC



REVIEW AND APPROVAL

The contents of this Test Report for SwRI Test Number 6-881 are correct and accurate, and all performance test results and procedures conducted by this laboratory are in compliance with API Standard 607, Fourth Edition.

Prepared By:

Southwest Research Institute™
Mechanical & Fluids Engineering Department
P. O. Drawer 28510
San Antonio, Texas, USA 78228-0510

Test Report Reviewed By:



Frank Henson
Technician

5-14-01

Date

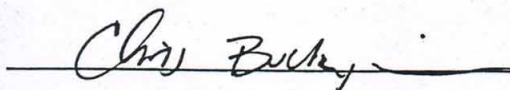


Robert Hart
Project Manager

5/15/01

Date

Management Review:



J. Christopher Buckingham
Manager, Multiphase Flow

5/15/01

Date

SOUTHWEST RESEARCH INSTITUTE™

6229 CULEBRA ROAD • POST OFFICE DRAWER 28518 • SAN ANTONIO, TEXAS 78228-0518, USA • (210) 684-5111 • WWW.SWRI.ORG

Mechanical & Fluids Engineering Department
May 14, 2001

Mr. Jim Chou
Haitima Corporation
8F, No. 201
Titing Boulevard, Sec. 2
Neihu Area
Taipei, Taiwan, R.O.C.

Reference: Fire Test Conducted On
4.00" – Class 300, Downstream Sealing (Floating) Ball Valve
per API Standard 607, 4th Edition
SwRI Project No. 18.04040.529
SwRI Test No. 6-881

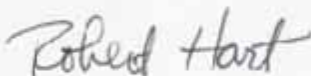
Dear Mr. Chou:

Enclosed are two copies of our test report on the subject fire test.

The test valve meets the performance requirements of API Standard 607, Fourth Edition.

Should you have any questions relative to this test or test report, please do not hesitate to contact us. I may be contacted by telephone at 210-522-2350, by FAX at 210-681-9661, or by e-mail at RHart@swri.org.

Sincerely,



Robert Hart
Project Manager

RH/meb

Enclosure

c: Mr. J. Krisch (w/out Encl.)
Test File (Encl.)

