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Client: **Dembla Valves Limited,
Thane**Office: **Mumbai**Client's Order Number: **Signed Request for Services dated 06.11.2008**Date: **07 November 2008**Order Status: **Complete**

Inspection Dates

First: **06 November 2008**Final: **06 November 2008**

This certificate is issued to **Dembla Valves Limited, Thane** to certify that the undersigned surveyor did at their request attend their works at **Kalher Village, Bhiwandi** on 6 November 2008 for the purpose of witnessing **Fire Safe Test of Butterfly valve** as described below:

DESCRIPTION OF ITEM SUBJECT TO FIRE SAFE TEST:

Size, Rating and type of Valve : DN 200 x Class 150 # Butterfly Valve

Brief Details of Construction : Cast Austenitic-Ferritic stainless steel (Duplex) body PTFE + Monel 400 (BS 3076 NA-13) Seat, Gear Operated Wheel & Lug Type Construction.

Valve Serial Number : VX - 04985

Drawing Number : GA/7400/FIRE/001/R0 Sheet 1 of 1.

Testing Standard : ISO 10497 - 5 - 2004 / API 607-FIFTH Edition - 2005

2. BRIEF DETAILS OF TEST PROCEDURE :

The above valve was subjected to Fire Safe Test at their premises generally in accordance with the referred Testing Standard, ISO 10497-5-2004 / API 607- 5th Edition 2005.

Prior to commencing firing, test arrangement was verified for conformance to the requirements stipulated in the above standard. Calibration records of temperature measuring instruments were reviewed and found in order.

Tests were conducted at Low Pressure 2.6 bar(g) as stipulated in the referred testing standard. Tests were conducted with the valve in closed position as well as in open position.

Burning period was allowed to continue for 30 minutes after the required average temperatures were achieved as per the standard. After completion of burning, cool down was allowed as per Test Std

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3. **TEST RESULTS :**

1. Through Seat leakage during Burning period with Valve under low pressure:
7 ml/min against the permitted limit of 800 ml/min.
2. 4.4 ml/min External leakage was observed against the permissible rate of 100 ml / min. both during burning period and after cooling down period when the valve was under low pressure.
3. Through Seat Leakage after cooling down period under low pressure:
0.6 ml/min. against the permitted external leakage of 320 ml/min.
4. 12.0 ml/min external leakage was observed against the permissible rate of 200 ml/min after cool down period and operational test.

For detailed results refer enclosed Prototype Fire Safe Test Report No. R 080320 dated 06.11.2008, duly endorsed by the Surveyor.

CONCLUSION:

Fire Safe test was conducted generally complying with ISO-10497:5:2004/API-607-I edition 2005 and the test results were found to be complying with the requirements of the testing Standard.


KIKRISHNA
FOR A. MISAL
Surveyors to Lloyd's Register Asia

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