



Fire Type-Test

Office: **Coventry**

Date: **23 December 2009**

This certificate is issued to **EUROPA VALVE Ltd, 15 Corrigs Road, Newcastle, Co Down, Northern Ireland, BT33 0JZ**, to certify that the undersigned did attend the works of **Design Paradigm, Slaithwaite, Huddersfield, England**, on **10th November 2009** in order to witness fire testing of the valve listed below. Testing was carried out in accordance with **Testing Procedure TP-005 Rev. 0, API Specification 6FA, Third Edition, April 1999 and BS EN ISO 10497: 2004**: -

**EUROPA VALVE – VENTURI CHECK VALVE 16" (400mm NOM.)
RATED PRESSURE CLASS 600
MANUFACTURED IN FERRITIC STEEL (ASTM A352 LCC) BODY**

The valve was mounted in the test apparatus with the bore in a horizontal position, and flame environment thermocouples and calorimeter cubes located in position. The test apparatus was verified to comply with the requirements of the testing procedure.

The valve was then subjected to a pressure test to a pressure in accordance with the requirements of paragraph 5.1 of the testing procedure.

The closed valve was then subjected to a 35 minute burn test with the pressure being maintained in accordance with paragraph 5.2 of the testing procedure. The average temperature of the thermocouples was maintained between 761°C and 980°C, with no temperature reading less than 704°C during the burn period. The average temperature of the calorimeter cubes was 650°C within 15 minutes of the burn period and maintained with no temperature recorded of less than 565°C.

The burner was then shut off, and the valve force cooled to below 100°C within the time specified in paragraph 5.4 of the testing procedure.

Through seat leakage (high test pressure) during the burn period, external leakage (high test pressure) during burn and cool-down periods, through seat leakage (low test pressure) after cool-down, and final external leakage (high test pressure) after cool-down (paragraph 5.6) were measured, and found to be in accordance with the standard.

With regard to the satisfactory results of the above tests, and satisfactory review of the test report, it is considered that the above referenced valve meets the requirements of client approved Testing Procedure No. TP-005 Rev. 0, API Specification 6FA, Third Edition, April 1999 and BS EN ISO 10497: 2004.



M. J. Lucas
Surveyor to Lloyd's Register EMEA

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